Preliminary Specifications Document

Prepared for

Authentium

By

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Document Detail

This document details functionality, business requirements, and other logical constraints of the Quote Builder Phase 1 as illustrated in the workflow document (Quote_Builder_Workflow_DRAFT3.vsd)

Modules include

- Application Start
- Data Entry and Validation
- Error Handling
- Quote Processing and Output
- Saving and Retrieving Data
- Administration

User Controls

- Data View
- ReturningUserLogin
- UserSave
- ProcessFlowMap
- ManageUsers

Classes and Methods

- RetrieveQuote
- DataValidation
- AccessDatabase
- SaveData
- GetData
- Eloqua
- QuoteCalculation
- GenerateOutput
- ErrorTrapping
- DisplayQuote

Document Notes

This section of the System Specifications Document will provide a running list of document notes and issues regarding client and/or developer comments.

Metis Solution comments will be made in red
Authentium comments will be made in blue

Functionality Notes

This section of the System Specifications Document will provide a running list of functionality notes and issues regarding client and/or developer comments.

Metis Solution comments will be made in red
Authentium comments will be made in blue

Global Business Rules

Pre-Conditions

The following Global Business Rules apply to the "pre-conditions" of specified use cases

- Credentials permit use of the Reporting and SetTriggers

Business Rules

The following Global Business Rules apply to the "business rules" of all use cases

- 128-bit Secure Socket Connection
- Session must not have expired.
    - If session has expired, user logs in again
- Session data exists for both users that are logged in and users that aren't logged in
    - Data for form pages is not retrieved from the database. If a user logs in, that data is populated into a unique session. The individual form pages are then populated from that session.

Scenario Extensions

The following Global Business Rules apply to the "scenario extensions" of all use cases

- System dysfunction may result from the following which result in error capture and error display
    - Inability to access data through database error
    - Inability to access data through system error
    - Inability to access data through component error
    - Inability to carry out user requests through component failure
    - Inability to carry out user requests because of data corruption

Table of Contents

Application Start

Objective:
To begin the Quote Builder

Use Cases

1. Build Quote (BQ1)
2. Login (LG1)

Business Requirements

- None

1. Build Quote (BQ1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	User wants to start building a quote
Scope:	Application
Level:	Task
Pre-Condition:	User must have accessed the Authentium web page
Success End Condition:	The quote builder process starts
Failed End Condition:	The quote builder process does not start
Primary Actor:	Application
Trigger Event:	User clicks on the "Build Quote" button

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on the Build Quote button
2	Application	Application sends user to the first page of the Quote Builder

Business Rules
- *None*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Page does not open	404 error, 500 error

Scenario Variations

If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>
1	How user gets to quote	If we send an email to users who have saved quotes but not done anything with them (i.e., historic quotes), the user could click on a link in the email

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	NA
Sub Use Case(s):	DN1, SN1, DE1, CI1, QP1, SQ1
Channel To Primary Actor:	Application
Secondary Actor(s):	
Channel(s) To Secondary Actor(s):	Application

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

2. Login (LO1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	User wants to retrieve previous quote
Scope:	Application
Level:	Task
Pre-Condition:	User must have entered username and password into ReturningUserLogin control
Success End Condition:	User's quote is returned
Failed End Condition:	User's quote is not returned; user is not logged in
Primary Actor:	Application
Trigger Event:	User enters username and password and clicks on the "Retrieve Quote" Button

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User enters username
2	Application	Application validates entry
3	User	User enters password
4	User	User clicks on "Retrieve Quote" Button
5	Application	Application verifies information with database using appropriate class(es)
6	Application	Application returns success message (i.e., name of user) and data

Business Rules

- *Username is email address*
- *Password is case sensitive*
- *This functionality is governed by a user control that can be placed on every page of the quote process*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success

Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	Condition	Action Description
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application incorrectly validates the username	Contact technical support
5a	Application cannot pass data to appropriate class(es)	Error is logged and message displayed; contact technical support
5b	Database error	Error is logged and message displayed; contact technical support
6a	Application does not display message	None

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per minute
Super Use Case:	NA
Sub Use Case(s):	GQ1, RU1
Channel To Primary Actor:	Application
Secondary Actor(s):	None
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

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Data Entry and Validation

Objective:
To enter data into the Quote Builder and make sure that it is valid data

Use Cases

3. Describe Network (DN1)
4. Security Needs (SN1)
5. Discount Eligibility (DE1)
6. Customer Information (CI1)
7. Quote Preview (QP1)
8. Submit Quote (SQ1)
9. Navigate to Page (NP1)
10. Print Quote (PQ2)

Business Requirements

- Data validation must occur on two levels—first, it must occur within the page at the form-field level (required fields at each page need to be specified); second, it must occur when data is submitted at each step within the process before data is stored in either the session or the database
- Data that the user enters is stored in session until the user has logged in. Once the user has logged in, session data is transferred to the database at the conclusion of each step.
- The steps occur in a linear fashion unless 1) a user has logged in and retrieved a quote by which they can navigate to the various pages through NP1; 2) a user has completed previous steps and navigates to them through NP1
- The Process Map (NP1) operates exactly the same as the “Save and Continue” button if there is form data that a user has entered when they click on a button in the Map

3. Describe Network (DN1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	User needs to describe their network
Scope:	Data Entry and Validation
Level:	Task
Pre-Condition:	User must have clicked on the Build Quote Button User may have logged into the Quote Builder and retrieved a saved quote
Success End Condition:	User is able to enter data points for each item The data points that a user enters are validated The data points that a user enters are saved in session If the user is logged in, the data points that a user enters are saved in a database upon submission
Failed End Condition:	User is unable to enter data points Data points are not validated correctly Data points are not saved in the session Data points are not saved in the database for a user that is logged in
Primary Actor:	Application
Trigger Event:	User clicks on the "Save and Continue" button

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User enters data points
2	Application	Application validates each data point that is entered
3	User	User submits form
4	Application	Application validates data entry
5	Application	Application checks to see if user is logged in
6	Application	If user is logged in, application saves data to database

7	Application	Application adds data to session
8	Application	Application sends user to next step in the process

Business Rules

- *Data validation occurs at two levels—the first level is at the form fields; the second level is when the completed form is submitted*
- *A form cannot be submitted until the required fields are completed correctly*
- *The following table describes the fields and field types for this form*

Category	***Field Name***	***Field Type***	***Required***
How many clients on your network?	*Windows XP*	*Text*	*No*
	Windows 98	*Text*	*No*
	Windows 9x	*Text*	*No*
	Mac OSX	*Text*	*No*
	Mac OS9	*Text*	*No*
	Mac OS8	*Text*	*No*
How many file servers?	*Windows 2003*	*Text*	*No*
	Windows NT/2000	*Text*	*No*
	Linux	*Text*	*No*
	Unix	*Text*	*No*
How many mailboxes?	*Exchange*	*Text*	*No*
	Lotus	*Text*	*No*
	Novel	*Text*	*No*
	Sendmail	*Text*	*No*

- *Although there are no required fields, page validation will require the user to specify data for at least one field.*

Scenario Extensions

This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
1a	User cannot enter data	Contact technical support
2a	Application validates fields incorrectly	Contact technical support
4a	Application cannot validate data	Application Error is captured; error message is displayed
4b	Application validates data incorrectly	Application Error is captured; error message is displayed

5a	Application cannot check to see if user is logged in	Application Error is captured; error message is displayed
6a	Application cannot save data to database	Application error is captured; error message is displayed
7a	Application does not add data to session	Contact technical support
8a	Application does not send user to next page	Application error is captured; error message is displayed
8b	Application sends user to wrong page	Contact technical support; user process map to navigate to the correct page until resolved

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per minute
Super Use Case:	QB1
Sub Use Case(s):	DV1, DA1, SD1, EL1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

4. Security Needs (SN1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	User needs to describe their security needs
Scope:	Data Entry and Validation
Level:	Task
Pre-Condition:	User must have clicked on the Build Quote Button User may have logged into the Quote Builder and retrieved a saved quote User must have completed DN1
Success End Condition:	User is able to enter data points for each item The data points that a user enters are validated The data points that a user enters are saved in session If the user is logged in, the data points that a user enters are saved in a database upon submission
Failed End Condition:	User is unable to enter data points Data points are not validated correctly Data points are not saved in the session Data points are not saved in the database for a user that is logged in
Primary Actor:	Application
Trigger Event:	User clicks on the “Save and Continue” button User clicks on the “Step 2” button in the Process Map

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User enters data points
2	Application	Application validates each data point that is entered
3	User	User submits form
4	Application	Application validates data entry

5	Application	Application checks to see if user is logged in
6	Application	If user is logged in, application saves data to database
7	Application	Application adds data to session
8	Application	Application sends user to next step in the process

Business Rules

- *Data validation occurs at two levels—the first level is at the form fields; the second level is when the completed form is submitted*
- *A form cannot be submitted until the required fields are completed correctly*
- *The following table describes the fields and field types for this form*

Category	***Field Name***	***Field Type***	***Required***
Client Security	*Antivirus*	*Checkbox*	*No*
	Firewall	*Checkbox*	*No*
	Spyware Blocker	*Checkbox*	*No*
	Resource Restrictions	*Checkbox*	*No*
	Web Content Filtering & Time Limits	*Checkbox*	*No*
	Windows Policy Enforcement	*CheckBox*	*No*
	Popup Filtering and Ad Blocking	*CheckBox*	*No*
	Spam Filtering	*Checkbox*	*No*
File Server Security	*Antivirus*	*Checkbox*	*No*
Mail Server Security	*Antivirus*	*Checkbox*	*No*
	Spam Filtering	*CheckBox*	*No*
	Corporate Compliance	*CheckBox*	*No*
	GLBA Email Compliance	*CheckBox*	*No*
	HIPAA Email Compliance	*Checkbox*	*No*
	SOX Email Compliance	*Checkbox*	*No*
Centralized Network Security	*Altiris Lifecycle Management*	*Checkbox*	*No*
	Authentium PatchMatrix	*Checkbox*	*No*
	Harris StatAnalyzer	*Checkbox*	*No*
	Patchlink Update	*Checkbox*	*No*
	AIG OneCover Cyber-risk insurance	*Checkbox*	*No*

- *Although there are no required fields, page validation will require the user to specify data for at least one field.*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	Condition	Action Description
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
1a	User cannot enter data	Contact technical support
2a	Application validates fields incorrectly	Contact technical support
4a	Application cannot validate data	Application Error is captured; error message is displayed
4b	Application validates data incorrectly	Application Error is captured; error message is displayed
5a	Application cannot check to see if user is logged in	Application Error is captured; error message is displayed
6a	Application cannot save data to database	Application error is captured; error message is displayed
7a	Application does not add data to session	Contact technical support
8a	Application does not send user to next page	Application error is captured; error message is displayed
8b	Application sends user to wrong page	Contact technical support; user process map to navigate to the correct page until resolved

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per minute
Super Use Case:	QB1, DN1
Sub Use Case(s):	DV1, DA1, SD1, EL1
Channel To Primary Actor:	Application

Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues

The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	**Issue Description**
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

5. Discount Eligibility (DE1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	User needs to specify their discount eligibility
Scope:	Data Entry and Validation
Level:	Task
Pre-Condition:	User must have clicked on the Build Quote Button User may have logged into the Quote Builder and retrieved a saved quote User must have completed DN1 User must have completed SN1
Success End Condition:	User is able to enter data points for each item The data points that a user enters are validated The data points that a user enters are saved in session If the user is logged in, the data points that a user enters are saved in a database upon submission
Failed End Condition:	User is unable to enter data points Data points are not validated correctly Data points are not saved in the session Data points are not saved in the database for a user that is logged in
Primary Actor:	Application
Trigger Event:	User clicks on the “Save and Continue” button User clicks on the “Step 3” button in the Process Map

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User enters data points
2	Application	Application validates each data point that is entered
3	User	User submits form

4	Application	Application validates data entry
5	Application	Application checks to see if user is logged in
6	Application	If user is logged in, application saves data to database
7	Application	Application adds data to session
8	Application	Application sends user to next step in the process

Business Rules

- *Data validation occurs at two levels—the first level is at the form fields; the second level is when the completed form is submitted*
- *A form cannot be submitted until the required fields are completed correctly*
- *The following table describes the fields and field types for this form*

Category	***Field Name***	***Field Type***	***Required***
Type of Organization	*Business*	*Radio Button*	*Yes*
	Education	*Radio Button*	*Yes*
	Government	*Radio Button*	*Yes*
	ISP/Consumer	*Radio Button*	*Yes*
Purchase History	*New Customer*	*Radio Button*	*Yes*
	Returning Customer	*Radio Button*	*Yes*
Purchase Timeframe	*This Month*	*Radio Button*	*Yes*
	This Quarter (but not this month)	*Radio Button*	*Yes*
	No Specific Tim	*Radio Button*	*Yes*
Coupon	*Coupon*	*Text*	*No*

- *If a user selects the "Returning Customer" radio button, an event handler (onBlur) must pop-up a window with RU1 for login purposes. Upon successful login, page is refreshed and option for "New Customer" is grayed-out.*
- *Although all Radio Button type fields are marked as required, this only indicates that a response must be given to the category. A user will not be able to select more than one response in a given category.*

Scenario Extensions

This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
1a	User cannot enter data	Contact technical support
2a	Application validates fields	Contact technical support

	incorrectly	
4a	Application cannot validate data	Application Error is captured; error message is displayed
4b	Application validates data incorrectly	Application Error is captured; error message is displayed
5a	Application cannot check to see if user is logged in	Application Error is captured; error message is displayed
6a	Application cannot save data to database	Application error is captured; error message is displayed
7a	Application does not add data to session	Contact technical support
8a	Application does not send user to next page	Application error is captured; error message is displayed
8b	Application sends user to wrong page	Contact technical support; user process map to navigate to the correct page until resolved

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per minute
Super Use Case:	QB1, DN1, SN1
Sub Use Case(s):	DV1, DA1, SD1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

6. Customer Information (CI1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	User needs to specify their customer information
Scope:	Data Entry and Validation
Level:	Task
Pre-Condition:	User must have clicked on the Build Quote Button User may have logged into the Quote Builder and retrieved a saved quote User must have completed DN1 User must have completed SN1 User must have completed DE1
Success End Condition:	User is able to enter data points for each item The data points that a user enters are validated The data points that a user enters are saved in session If the user is logged in, the data points that a user enters are saved in a database upon submission
Failed End Condition:	User is unable to enter data points Data points are not validated correctly Data points are not saved in the session Data points are not saved in the database for a user that is logged in
Primary Actor:	Application
Trigger Event:	User clicks on the “Save and Continue” button User clicks on the “Step 4” button in the Process Map

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User enters data points
2	Application	Application validates each data point that is entered

3	User	User submits form
4	Application	Application validates data entry
5	Application	Application checks to see if user is logged in
6	Application	If user is logged in, application saves data to database
7	Application	Application adds data to session
8	Application	Application sends user to next step in the process

Business Rules

- *Data validation occurs at two levels—the first level is at the form fields; the second level is when the completed form is submitted*
- *A form cannot be submitted until the required fields are completed correctly*
- *The following table describes the fields and field types for this form*

Category	***Field Name***	***Field Type***	***Required?***
	First Name	*Text*	*Yes*
	Last Name	*Text*	*Yes*
	Organization	*Text*	*Yes*
	Address 1	*Text*	*Yes*
	Address 2	*Text*	*No*
	City	*Text*	*Yes*
	State	*Text*	*Yes*
	Zipcode	*Text*	*Yes*
	Office Phone	*Text*	*Yes*
	Ext.	*Text*	*No*
	Fax	*Text*	*No*
	Email	*Text*	*Yes*
	Confirm Email	*Text*	*Yes*
	Password	*Text*	*Yes*
	Confirm Password	*Text*	*Yes*
	Comments	*Multi-line Text*	*No*

Scenario Extensions

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Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
1a	User cannot enter data	Contact technical support
2a	Application validates fields incorrectly	Contact technical support
4a	Application cannot validate data	Application Error is captured; error message is displayed

4b	Application validates data incorrectly	Application Error is captured; error message is displayed
5a	Application cannot check to see if user is logged in	Application Error is captured; error message is displayed
6a	Application cannot save data to database	Application error is captured; error message is displayed
7a	Application does not add data to session	Contact technical support
8a	Application does not send user to next page	Application error is captured; error message is displayed
8b	Application sends user to wrong page	Contact technical support; user process map to navigate to the correct page until resolved

Scenario Variations
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The following table gives the information that is related to the Use Case.

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Frequency:	Transactions per minute
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Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

7. Quote Preview (QP1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	User wants to preview their quote
Scope:	Data Entry and Validation
Level:	Task
Pre-Condition:	User must have clicked on the Build Quote Button User may have logged into the Quote Builder and retrieved a saved quote User must have completed DN1 User must have completed SN1 User must have completed DE1 User must have completed CI1
Success End Condition:	User is able to enter data points for each item The data points that a user enters are validated The data points that a user enters are saved in session If the user is logged in, the data points that a user enters are saved in a database upon submission
Failed End Condition:	User is unable to enter data points Data points are not validated correctly Data points are not saved in the session Data points are not saved in the database for a user that is logged in
Primary Actor:	Application
Trigger Event:	User clicks on the “Save and Continue” button User clicks on the “Step 5” button in the Process Map

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User enters data points
2	Application	Application validates each data point that is entered

3	User	User submits form
4	Application	Application validates data entry
5	Application	Application checks to see if user is logged in
6	Application	If user is logged in, application saves data to database
7	Application	Application adds data to session
8	Application	Application sends user to next step in the process

Business Rules

- *Data validation occurs at two levels—the first level is at the form fields; the second level is when the completed form is submitted*
- *A form cannot be submitted until the required fields are completed correctly*

Scenario Extensions

This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
1a	User cannot enter data	Contact technical support
2a	Application validates fields incorrectly	Contact technical support
4a	Application cannot validate data	Application Error is captured; error message is displayed
4b	Application validates data incorrectly	Application Error is captured; error message is displayed
5a	Application cannot check to see if user is logged in	Application Error is captured; error message is displayed
6a	Application cannot save data to database	Application error is captured; error message is displayed
7a	Application does not add data to session	Contact technical support
8a	Application does not send user to next page	Application error is captured; error message is displayed
8b	Application sends user to wrong page	Contact technical support; user process map to navigate to the correct page until resolved

Scenario Variations

If a variation can occur in how a step is performed it will be listed here.

Step	**Variable**	**Possible Variations**
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be

Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per minute
Super Use Case:	QB1, DN1, SN1, DE1, CI1
Sub Use Case(s):	DA1, GD1, RQ1, DQ1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	**Issue Description**
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

8. Submit Quote (SQ1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	User wants to submit their quote for preview
Scope:	Data Entry and Validation
Level:	Task
Pre-Condition:	User must have clicked on the Build Quote Button User may have logged into the Quote Builder and retrieved a saved quote User must have completed DN1 User must have completed SN1 User must have completed DE1 User must have completed CI1
Success End Condition:	User is able to submit quote
Failed End Condition:	User is unable to submit quote
Primary Actor:	Application
Trigger Event:	User clicks on the "Submit" button from CI1

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User enters data points
2	Application	Application validates each data point that is entered
3	User	User submits form
4	Application	Application validates data entry
5	Application	Application checks to see if user is logged in
6	Application	If user is logged in, application saves data to database
7	Application	Application adds data to session
8	Application	Application sends user to next step in the process

Business Rules

- *Data validation occurs at two levels—the first level is at the form fields; the second level is when the completed form is submitted*

- *A form cannot be submitted until the required fields are completed correctly*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	Condition	Action Description
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
1a	User cannot enter data	Contact technical support
2a	Application validates fields incorrectly	Contact technical support
4a	Application cannot validate data	Application Error is captured; error message is displayed
4b	Application validates data incorrectly	Application Error is captured; error message is displayed
5a	Application cannot check to see if user is logged in	Application Error is captured; error message is displayed
6a	Application cannot save data to database	Application error is captured; error message is displayed
7a	Application does not add data to session	Contact technical support
8a	Application does not send user to next page	Application error is captured; error message is displayed
8b	Application sends user to wrong page	Contact technical support; user process map to navigate to the correct page until resolved

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per minute
Super Use Case:	QB1, DN1, SN1, DE1, CI1

Sub Use Case(s):	CQ1, DV1, QP1, DA1, SD1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues

The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	**Issue Description**
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

9. Navigate to Page (NP1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	User wants to navigate to a specific page in the Process Map
Scope:	Data Entry and Validation
Level:	Task
Pre-Condition:	User must have partial or completed data in the step to which they are navigating
Success End Condition:	User navigates to page Data is available for editing or review
Failed End Condition:	User cannot navigate to page Data is not available
Primary Actor:	Application
Trigger Event:	Use clicks on appropriate button in the Process Map

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on the Process Map Button
2	Application	Application sends user to requested page
3	Application	Application populates destination page with session data

Business Rules

- *Data for a page is not retrieved from the database. This would be too server intensive. Data is retrieved from the session.*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub

		Use Case>
2a	Application does not send user to correct page	Contact technical support
3a	Application does not populate form with data	Contact technical support
3b	Application populates form with wrong data	Contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per minute
Super Use Case:	QB1, DN1, SN1, DE1, CI1
Sub Use Case(s):	NA
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

10. Print Quote (PQ2)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Print a quote to fax
Scope:	Data Entry and Validation
Level:	Task
Pre-Condition:	User must have completed data in all four steps of the Quote Builder
Success End Condition:	Quote is displayed for printing
Failed End Condition:	Quote is not displayed for printing
Primary Actor:	Application
Trigger Event:	User clicks on “Fax Quote” button on QP1

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on “Fax Quote” button on QP1
2	Application	Application displays quote in a printer-friendly

Business Rules

- *Printer-friendly version must have area for entering CC#, Exp. Date, as well as PO#/info.*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application does not display quote information in new window	Contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	QB1, PQ1
Sub Use Case(s):	NA
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>
1	What is the CRM system into which the Quote Builder will integrate?

Error Handling

Objective:
To enter data into the Quote Builder and make sure that it is valid data

Use Cases

11. Capture Error (CE1)
12. Store Error (SE1)
13. Display Error (DE1)

Business Requirements

- Error capture must include the following points
    i. Type of error
    ii. Time of error

11. Capture Error (CE1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Capture the ASP.NET error code and stack trace for a given error
Scope:	Error Handling
Level:	Task
Pre-Condition:	The application must have thrown an error
Success End Condition:	Error information is captured
Failed End Condition:	Error information is not captured
Primary Actor:	Application
Trigger Event:	Application throws an error

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	Application	Application throws an error
2	Application	Application captures ASP.NET error message, code, and stack trace

Business Rules

- *Error capture should be done using Try/Catch expressions*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application does not capture one or multiple parameters of an error	Technical support must debug

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	NA
Sub Use Case(s):	ET1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

12. Store Error (SE1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Store a captured error in the database
Scope:	Error Handling
Level:	Task
Pre-Condition:	The application must have captured an error
Success End Condition:	Error information is stored in the database
Failed End Condition:	Error information is not stored in the database
Primary Actor:	Application
Trigger Event:	Application error information is captured

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	Application	Application has captured an error
2	Application	Application calls appropriate database classes
3	Application	Application writes captured error information into database
4	Application	Application forwards work-flow to DE1

Business Rules

- *Recursive error capturing (i.e, an error occurs within the Error Handling task) must not stop the system; errors within this module must be ignored.*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**

<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application cannot call database components	Technical support must debug; process continues to DE1
3a	Application cannot write to database	Technical support must debug; process continues to DE1
4a	Application cannot continue work-flow	Technical support must debug; display general application error screen

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	CE1
Sub Use Case(s):	DA1, SD1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

13. Display Error (DE1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Display a custom error page for the error type
Scope:	Error Handling
Level:	Task
Pre-Condition:	The application must have written the error to the database The application must have encountered an error within the Error Handling module
Success End Condition:	Custom error page is displayed
Failed End Condition:	Custom error page is not displayed Generate error page is displayed
Primary Actor:	Application
Trigger Event:	Captured error information is stored into the database

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	Application	Application displays custom error page

Business Rules

- *Custom errors must be specified within the Web.config file*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
1a	Application cannot display custom error page	Technical support must debug; general application error page is

displayed

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	SE1
Sub Use Case(s):	NA
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

Quote Processing and Output

Objective:
To process a quote for submission to Authentium and to output quote data into appropriate formats

Use Cases

14. Process Quote (PQ1)
15. Output Quote for CRM (OQ1)

Business Requirements

- CRM system will determine the output requirements for OQ1

14. Process Quote (PQ1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Process finalized quote and send to appropriate Authentium representative
Scope:	Quote Processing and Output
Level:	Task
Pre-Condition:	User must have completed data in all four steps of the Quote Builder
Success End Condition:	Quote is processed
Failed End Condition:	Quote is not processed
Primary Actor:	Application
Trigger Event:	User clicks on “Submit Quote” Button from QP1

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on “Submit Quote” button from QP1
2	Application	If user is already logged in, application updates record; if user is not logged in, application creates new record for user and writes data
3	Application	Application moves process to OQ1

Business Rules
- *Pricing for individual application components will be taken from existing pricing database*
    - *Calculation methods for final quote pricing TBD*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	Condition	Action Description
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application does not update record	Contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	QP1
Sub Use Case(s):	QC1, DA1, SD1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

15. Output Quote for CRM (OQ1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Output Quote in XML or text format
Scope:	Quote Processing and Output
Level:	Task
Pre-Condition:	Quote must have been processed
Success End Condition:	Quote is output
Failed End Condition:	Quote is not output
Primary Actor:	Application
Trigger Event:	Quote is processed

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	Application	Quote is processed
2	Application	Application generates unique XML (or other format) file for import into the CRM system
3	Application	Application displays thank you page

Business Rules
- *It is unclear in what output the quote data will need to be*
- *Being unable to output the proper file format for CRM application synchronization will not be apparent to the end-user*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>

2a	Application does not generate file	Technical support must debug
3a	Application does not display thank you page	Contact technical support; display error message and capture error

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	QP1
Sub Use Case(s):	GO1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>
1	What is the CRM application and what are the specific data points that need to be exported for proper synchronization?

Saving and Retrieving

Objective:
To save quote data and retrieve quote data

Use Cases

16. Get Quote Data (GQ1)
17. Save Quote Data (SQ1)

Business Requirements

- Retrieve data is governed by the user control ReturningUserLogin

16. Get Quote Data (GQ1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Retrieve previous quote data and populate the data into the session
Scope:	Saving and Retrieving
Level:	Task
Pre-Condition:	User must have logged in
Success End Condition:	Quote data is retrieved and populated into the session
Failed End Condition:	Quote data is not retrieved
Primary Actor:	Application
Trigger Event:	Quote is processed

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	Application	User Logs in as per LO1
2	Application	Application retrieves data from database
3	Application	Application puts data into session for use in quote building process

Business Rules

- *This functionality is part of the user Login control. The process of logging in is LO1.*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>

1a	User cannot login	See LO1
2a	Application cannot retrieve data from the database	Application displays error message; contact technical support
3a	Application does not populate data into session	Contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	LO1, RU1
Sub Use Case(s):	DA1, GD1, RQ1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>
1	What is the CRM application and what are the specific data points that need to be exported for proper synchronization?

17. Save Quote (SQ2)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	User wants to save their quote information
Scope:	Data Entry and Validation
Level:	Task
Pre-Condition:	There must be session data
Success End Condition:	Data is saved
Failed End Condition:	Data is not saved
Primary Actor:	Application
Trigger Event:	User clicks on “Save Quote” Button on any page

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on “Save Quote” Button
2	Application	If user is logged in, the appropriate record is updated; if the user is not logged in, a new record is created

Business Rules

- *This is a user control that is available on all of the quote pages allowing a user to save a quote in progress*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application does not update	Application error is logged; error

	the record	message is displayed
2b	Application does not create new record	Application error is logged; error message is displayed

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	QB1
Sub Use Case(s):	DA1, SD1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

Administration

Objective:
To administer data and key areas

Use Cases

18. View Quote Data (VQ1)
19. Set Triggers (ST1)
20. Manage Users (MU1)

Business Requirements

- Access to administrative features is through a password-protected website (i.e., admin.authentium.com)

18. View Quote Data (VQ1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Administrative user wants to view quote data in raw format
Scope:	Administration
Level:	Task
Pre-Condition:	User must have logged into the administrative section
Success End Condition:	Data can be viewed
Failed End Condition:	Data cannot be viewed
Primary Actor:	Application
Trigger Event:	User clicks on “View Data” link in administrative link

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on View Data link
2	Application	Application loads WebGrid.NET control

Business Rules

- *This control is provided through the WebGrid.NET Enterprise script*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application cannot load control	Application error is logged; error message is displayed

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	NA
Sub Use Case(s):	DA1, GD1, DV2
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

19. Set Triggers (ST1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Administrative User wants to set the triggers (i.e., thresholds) where pop-ups appear
Scope:	Administration
Level:	Task
Pre-Condition:	User must have logged into the administrative section
Success End Condition:	Triggers are set and saved
Failed End Condition:	Triggers are not saved
Primary Actor:	Application
Trigger Event:	User clicks on “Set Triggers” link in the administrative section

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on Set Triggers link
2	Application	Application displays triggers with form fields for specifying numerical thresholds
3	User	User specifies triggers
4	Application	Application validates fields as user enters them
5	User	User clicks submit button
6	Application	Application writes changes to XML settings file

Business Rules

- *The specific points within the workflow where the thresholds apply need to be defined. Upon definition, they will be listed here.*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	Condition	Action Description
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application does not display form	Application error is logged; error message is displayed
4a	Application does not validate fields	Contact technical support
4b	Application incorrectly validates fields	Contact technical support
6a	Application does not write changes to XML file	Application error is logged; error message is displayed
6b	Application writes wrong values to XML file	Contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	NA
Sub Use Case(s):	NA
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

20. Manage Users (MU1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Administrative User wants to add, edit, or delete system users
Scope:	Administration
Level:	Task
Pre-Condition:	User must have logged into the administrative section
Success End Condition:	User task is accomplished
Failed End Condition:	User task is not accomplished
Primary Actor:	Application
Trigger Event:	User clicks on "Manage Users" link in the administrative section

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on Manage Users link
2	Application	Application loads PortSight control

Business Rules

- *This functionality is provided through the PortSight user and security management control*
- *User types and groups will be defined at a later date and configured through the PortSite control*
- *Use cases for existing controls will not be documented in these specifications. For more information about the control, see the appropriate documentation.*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**

<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application cannot load control	Application error is logged; error message is displayed

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	NA
Sub Use Case(s):	MU2
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

User Controls

Objective:
User controls that are used throughout the site

Use Cases

21. Data View (DV2)
22. ReturningUserLogin (RU1)
23. UserSave (US1)
24. ProcessFlowMap (PF1)
25. ManageUsers (MU2)

Business Requirements

- Access to administrative features is through a password-protected website (i.e., admin.authentium.com)

21. DataView (DV2)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Viewing data
Scope:	Administration
Level:	Task
Pre-Condition:	User must have logged into the administrative section User has navigated to the View Data page
Success End Condition:	Data Control is loaded
Failed End Condition:	Data Control is not loaded
Primary Actor:	Application
Trigger Event:	Page Load

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	Actor	Action Description
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	Application	Application loads control

Business Rules

- *This functionality is provided through WebGrid.NET Enterprise*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	Condition	Action Description
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
1a	Application cannot load control	Application error is logged; error message is displayed

Scenario Variations

If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	VQ1
Sub Use Case(s):	DA1, GD1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

22. ReturningUserLogin (RU1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Process Login Request
Scope:	Site
Level:	Task
Pre-Condition:	User must have valid username and password
Success End Condition:	Database is accessed and username/password is validated
Failed End Condition:	Database cannot be accessed Username/password cannot be validated
Primary Actor:	Application
Trigger Event:	Page Load where control is located

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	Application	Application loads control
2	User	User enters credentials as outlined in LG1
3	Application	Control passes credentials to database and validates those credentials
4	Application	Control populates quote data into session and/or returns message to user

Business Rules
- *None*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub

		Use Case>
1a	Application cannot load control	Application error is logged; error message is displayed
3a	Control cannot pass credentials to database	Application error is logged; error message is displayed
3b	Credentials cannot be validated	Application error is logged; error message is displayed
4a	Control is unable to populate quote data into the session	Application error is logged; error message is displayed
4b	Control is unable to display message to user	Contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	LO1
Sub Use Case(s):	DA1, GD1, DV1, RP1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

23. User Save (US1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Save Quote Data in progress
Scope:	Site
Level:	Task
Pre-Condition:	None
Success End Condition:	Data is saved
Failed End Condition:	Data is not saved
Primary Actor:	Application
Trigger Event:	User clicks on “Save Data” Button control on page

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	Application	Application loads control
2	User	User clicks on “Save Data” Button control
3	Application	Control saves data from session into database by updating user’s record
4	Application	Application returns message to user verifying save

Business Rules

- *None*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>

1a	Application cannot load control	Application error is logged; error message is displayed
3a	Control can't save data into database	Application error is logged; error message is displayed
4a	Control doesn't display message to user	Application error is logged; error message is displayed

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>
3a	User must login before saving	Pop-up window with control RU1
3b	User is not a registered user yet	Pop-up window with account info fields; automatically passing username and password into RU1

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	NA
Sub Use Case(s):	DA1, SD1, DV1,
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

24. ProcessFlowMap (PF1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Navigate to another page in the quote building process
Scope:	Site
Level:	Task
Pre-Condition:	Data in the step to which the user wants to navigate must have some data in the session
Success End Condition:	Page is loaded
Failed End Condition:	Page is not loaded
Primary Actor:	Application
Trigger Event:	User clicks on page number within the control

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	Application	Application loads control
2	User	User clicks on available page number in the control
3	Application	Application navigates user to that page

Business Rules

- *The page control could be ASPTabView*
- *A page is only available to navigate to if there is data. When a user enters data into a field (and it is added to the session), a flag is set that indicates that the page can be navigated to.*
    - *This does not mean that a user must be a returning user and logged in with a saved quote that has been populated into the session.*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success

Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	Condition	Action Description
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
1a	Application cannot load control	Application error is logged; error message is displayed
3a	Application cannot navigate user to page	Application error is logged; error message is displayed
3b	Application navigates user to wrong page	Contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	NA
Sub Use Case(s):	NA
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

25. Manage Users (MU2)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Add, edit, delete, and perform other activities as it relates to managing users
Scope:	Site
Level:	Task
Pre-Condition:	Administrative user must have successfully logged into the admin section
Success End Condition:	Control is loaded and available
Failed End Condition:	Control is not loaded and/or not available
Primary Actor:	Application
Trigger Event:	User clicks on “Manage Users” link in the administration section

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	Application	Application loads control
2	User	User utilizes functionality available in control

Business Rules

- *This control is provided by PortSight*
- *A page is only available to navigate to if there is data. When a user enters data into a field (and it is added to the session), a flag is set that indicates that the page can be navigated to.*
    - *This does not mean that a user must be a returning user and logged in with a saved quote that has been populated into the session.*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**

<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
1a	Application cannot load control	Application error is logged; error message is displayed
3a	Application cannot navigate user to page	Application error is logged; error message is displayed
3b	Application navigates user to wrong page	Contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	MU1
Sub Use Case(s):	DA1, GD1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

Classes and Methods

Objective:
Classes and Methods that can be used throughout the application.

Use Cases

26. RetrieveQuote (RQ1)
27. DataValidation (DV1)
28. DatabaseAccess (DA1)
29. SaveData (SD1)
30. GetData (GD1)
31. Eloqua (EL1)
32. QuoteCalculation (QC1)
33. GenerateOutput (GO1)
34. ErrorTrapping (ET1)
35. DisplayQuote (DQ1)
36. RequestPassword (RP1)
37. SendEmail (SE2)

Business Requirements

- Classes and methods have no presentation-layer persistence. They are called, as needed, from various components of the application.

26. RetrieveQuote (RQ1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Retrieve a quote when a user successfully completes RU1
Scope:	Site
Level:	Task
Pre-Condition:	User credentials must have been successfully validated through RU1
Success End Condition:	Quote data is loaded into session
Failed End Condition:	Quote data is not loaded into session
Primary Actor:	Application
Trigger Event:	User clicks on “Submit” button in ReturningUserLogin control

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	Actor	Action Description
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on “Submit” button in ReturningUserLogin control
2	Application	Application validates credentials (RU1)
3	Application	Application gets appropriate data from database
4	Application	Application populates appropriate data points within session so that user can “resume” Quote Builder from where/when they last left

Business Rules

- *None*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	Condition	Action Description

<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application cannot validate credentials	See RU1.
3a	Application cannot retrieve data from database	Application error is logged; error message is displayed
4a	Application cannot populate session with data	Contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	RU1
Sub Use Case(s):	DA1, GD1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

27. DataValidation (DV1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Validate all data before it is written to the database
Scope:	Site
Level:	Task
Pre-Condition:	User must have entered data into one or more fields
Success End Condition:	Data is validated and the process continues
Failed End Condition:	Data is not validated There is one or more data errors
Primary Actor:	Application
Trigger Event:	User must have clicked the “Save Button” OR user must have clicked the “Submit Quote” Button

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User must have clicked the “Save Button” OR user must have clicked the “Submit Quote” Button
2	Application	Application validates data
3	Application	Application moves to next step in process from which DataValidation was called

Business Rules

- *Possibly use XML file to define data types and acceptable data response ranges against which to check user entry*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**

<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application cannot read XML file to validate data	Application error is logged; error message is displayed
2b	Application incorrectly validates data	None. This won't be discovered until someone views the raw data and which time technical support can debug the issue.
3a	Application does not move to the next step in the process	Application error is logged; error message is displayed
3b	Application displays error message for data validation	None; user needs to correct data issues.

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>
3	Application can find data errors	Application can display error message and redirect user to appropriate page to fix data

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	SQ1, US1
Sub Use Case(s):	ET1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

28. DatabaseAccess (DA1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Open a connection to the database
Scope:	Site
Level:	Task
Pre-Condition:	None
Success End Condition:	Database connection is open and initialized
Failed End Condition:	Database connection is not opened
Primary Actor:	Database
Trigger Event:	User must have initiated function that requires data access

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	Actor	Action Description
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User initiates function that requires data access
2	Application	Application initializes connection string and opens database connection
3	Application	Application moves to next step in process

Business Rules

- *Connection string(s) will be maintained in Web.Config file*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	Condition	Action Description
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application cannot open database	Application error is logged; error message is displayed

3a	Application does not move to the next step in the process	Application error is logged; error message is displayed

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	MANY
Sub Use Case(s):	GD1, SD1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

29. SaveData (SD1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Save data to the database
Scope:	Site
Level:	Task
Pre-Condition:	There must be data in the session to save There must be a valid user logged in
Success End Condition:	Data is saved
Failed End Condition:	Data is not saved
Primary Actor:	Database
Trigger Event:	User must have initiated function that requires saving data

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User initiates function that requires saving data
2	Application	Application initializes connection string and opens database connection (DA1)
3	Application	Application saves data to appropriate fields

Business Rules

- *The system must be able to deal with <NULL> values*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>

2a	Application cannot open database	See DA1
3a	Application cannot save data to fields	Application error is logged; error message is displayed

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	DA1
Sub Use Case(s):	NA
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

30. GetData (GD1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Get data from the database
Scope:	Site
Level:	Task
Pre-Condition:	A user must have logged in (Quote Builder or Administrative)
Success End Condition:	Data is retrieved
Failed End Condition:	Data is not retrieved
Primary Actor:	Database
Trigger Event:	User must have initiated function that requires retrieving data

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User must have initiated function that requires retrieving data
2	Application	Application initializes connection string and opens database connection (DA1)
3	Application	Application retrieves data
4	Application	Application continues to next step in process

Business Rules

- *This is the physical class/method for retrieving data. This can be called by various other functions including VD1, RU1, etc.*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch	<Description Of The Action To Be

	To Occur>	Performed or the name of a Sub Use Case>
2a	Application cannot open database	See DA1
3a	Application cannot read from database	Application error is logged; error message is displayed
4a	Application cannot continue with process	Application error is logged; error message is displayed

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	DA1
Sub Use Case(s):	NA
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

31. Eloqua (EL1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Integration of Eloqua technology
Scope:	Site
Level:	Task
Pre-Condition:	A user must be working through the Quote Builder process and encounter a trigger point
Success End Condition:	Eloqua technology is instantiated
Failed End Condition:	Eloqua technology is not instantiated
Primary Actor:	Eloque
Trigger Event:	User is working through Quote Builder pages

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User must be working through Quote Builder and encounter a Trigger point
2	Application	Application instantiates Eloqua technologies

Business Rules
- *It is unclear how Eloqua will integrate*
- *Inability to instantiate Eloqua will not derail Quote Builder process*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>

2a	Application cannot instantiate Eloqua technology	Application error is logged; no error message is displayed

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	DN1, SE1
Sub Use Case(s):	NA
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>
1	Does Eloqua have an open/published API?
2	Is Eloqua .NET compatible?

32. QuoteCalculation (QC1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Calculate the price of a software product based upon Quote Builder data
Scope:	Data Entry and Validation
Level:	Task
Pre-Condition:	A user must have submitted a Quote for preview
Success End Condition:	The quote is calculated
Failed End Condition:	The quote is not calculated
Primary Actor:	Application
Trigger Event:	User clicks on “Preview Quote” button

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on “Preview Quote” button
2	Application	Application retrieves pricing data
3	Application	Application applies pricing data to Quote data and calculates cost

Business Rules

- *Pricing data will come from existing table*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application cannot retrieve	Application error is logged; no

	pricing data	error message is displayed
3a	Application cannot calculate pricing	Application error is logged; no error message is displayed
3b	Application miscalculates pricing	Contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	QP1
Sub Use Case(s):	DA1, GD1, SD1, DV1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>
1	How is pricing calculated?

33. GenerateOutput (GO1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Generate quote output
Scope:	Quote Processing
Level:	Task
Pre-Condition:	A user must have submitted a quote
Success End Condition:	The quote is output
Failed End Condition:	The quote is not output
Primary Actor:	Application
Trigger Event:	User clicks on “Submit Quote” button

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on “Submit Quote” button
2	Application	Application generates output for CRM system
3	Application	Application generates output for Email
4	Application	Application generates output for screen

Business Rules
- *CRM requires need to be specified*
- *Only Step 4 has a presentation-layer requirement*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>

2a	Application cannot generate output for CRM	Technical support to debug
3a	Application cannot generate output for Email	Technical support to debug
4a	Application cannot generate output for Screen	Contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	SQ1, OQ1
Sub Use Case(s):	NA
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>
1	What are the data-import requirements for the CRM system?

34. ErrorTrapping (ET1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Capture error messages
Scope:	Application
Level:	Task
Pre-Condition:	The application must have thrown an error
Success End Condition:	The error is trapped
Failed End Condition:	The error is not trapped
Primary Actor:	Application
Trigger Event:	Application throws error

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	Application	Application throws error
2	Application	Application captures error output
3	Application	Application opens dataconnection (DA1)
4	Application	Application stores error information

Business Rules
- *Included in error storage is date and time of error*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application cannot capture	Display general application error

	error output	
3a	Application cannot open data connection	See DA1
4a	Application cannot store error information	See SD1

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	CE1, SE1
Sub Use Case(s):	DA1, SD1
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

35. DisplayQuote (DQ1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Display the completed quote on the screen
Scope:	Application
Level:	Task
Pre-Condition:	A quote must have been submitted and processed
Success End Condition:	The quote is displayed
Failed End Condition:	The quote is not displayed
Primary Actor:	Application
Trigger Event:	User clicks on “Submit Quote” Button

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on “Submit Quote” Button
2	Application	Application processes and submits quote (SQ1)
3	Application	Application populates presentation-layer labels for display on screen

Business Rules

- *Formatting for on-screen display will be decided later*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application cannot process	See QP1 and SQ1

	or submit quote	
3a	Application cannot populate labels for display	Display empty screen; contact technical support

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	QP1, SQ1
Sub Use Case(s):	None
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

36. RequestPassword (RP1)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	User wants password emailed to them
Scope:	Application
Level:	Task
Pre-Condition:	User must have clicked on “Forgot Password” link in RU1 User must have entered email address
Success End Condition:	The password is emailed to them
Failed End Condition:	The password is not emailed to them Their record cannot be located in the database
Primary Actor:	Application
Trigger Event:	User clicks on “Email me Password” Button from RU1

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User clicks on “Forgot Password” link from RU1
2	Application	Application displays form to enter email address
3	User	User enters email address
4	User	User clicks on “Email Me Password” Button
5	Application	Application retrieves password from database
6	Application	Application emails password to email address

Business Rules
- *None*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success

Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	Condition	Action Description
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application does not display form to enter email address	Contact technical support
5a	Application cannot retrieve record from database	Application error is logged; error message is displayed
6a	Application cannot send email	Application error is logged; error message is displayed

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	RU1
Sub Use Case(s):	DV1, DA1, GD1, SE2
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>

37. SendEmail (SE2)

Characteristic Information
The following defines information that pertains to this particular use case. Each piece of information is important in understanding the purpose behind the Use Case.

Goal In Context:	Send email
Scope:	Application
Level:	Task
Pre-Condition:	User must have submitted a quote User must have requested a password
Success End Condition:	The data is emailed
Failed End Condition:	The data is not emailed
Primary Actor:	Application
Trigger Event:	User submits quote User requests password to be emailed

Main Success Scenario
This Scenario describes the steps that are taken from trigger event to goal completion when everything works without failure. It also describes any required cleanup that is done after the goal has been reached. The steps are listed below:

Step	**Actor**	**Action Description**
<Step #>	<Name The Actor>	<Give A Description Of What The Actor Is Doing>
1	User	User submits quote OR user requests password
2	Application	Application sends data via email

Business Rules

- *Emailing may be handled by third-party component to enable multi-threading*

Scenario Extensions
This is a listing of how each step in the Main Success Scenario can be extended. Another way to think of this is how can things go wrong. The extensions are followed until either the Main Success Scenario is rejoined or the Failed End Condition is met. The Step refers to the Failed Step in the Main Success Scenario and has a letter associated with it. I.E if Step 3 fails the Extension Step is 3a.

Step	**Condition**	**Action Description**
<Step #>	<What Caused The Branch To Occur>	<Description Of The Action To Be Performed or the name of a Sub Use Case>
2a	Application does not email	Application error is logged; error message is displayed

Scenario Variations
If a variation can occur in how a step is performed it will be listed here.

Step	Variable	Possible Variations
<Step #>	<What Is It That Can Be Varied>	<List All The Possible Ways In Which The Variable Can Be Varied>

Related Information
The following table gives the information that is related to the Use Case.

Schedule:	V1
Priority:	High-Want
Performance Target:	Fast enough to avoid browser timeouts
Frequency:	Transactions per second
Super Use Case:	RU1, SQ1
Sub Use Case(s):	NA
Channel To Primary Actor:	Application
Secondary Actor(s):	NA
Channel(s) To Secondary Actor(s):	Application Database

Open Issues
The following table provides insight to any unresolved problems or questions. These are the things that seem to apply but could not be fit into this use case on this pass.

Issue ID	Issue Description
<IssueID>	<Describe In Some Way The Issue That Is Unresolved, (may be a question)>