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Software Requirements Specification
For [Redacted]

Version 0.1

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Software Requirements Specification	Date: 08/01/2018

Revision History

Date	Version	Description	Author
08/01/2018	0.1	Initial Document	Donald Walters

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Software Requirements Specification

1. Introduction

1.1 Purpose

This document provides the detailed specification for the ██████████ application and associated procedures, interfaces, and data structures.

1.2 Scope

This document is limited to the ██████████ which replaces the hard coded rules and affects all future and rewritten applications. Use cases describing the tasks that each actor may perform in ██████████ are grouped by common use cases. Use cases are contained in the Use Case Diagrams tab.

1.3 Definitions, Acronyms, and Abbreviations

triage – the process of determining priority.

1.4 References

N/A

1.5 Overview

The ██████████ application is intended to replace the current method of quote rules management, which is primarily done with changes to the application code.

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2. Overall Description

Currently, all changes or additions to the quote triage rules are done primarily through code changes. The resources required are significantly more than via a system that relies solely on data changes. ██████████ address this issue and also reduces the number of personnel to maintain the rules. ██████████ shall be a part of the ██████████ and be a self-contained, single page application.

The user should be able to quickly add a rule quickly without loading a new page. Once added the rule should then be accessible on a single, searchable data grid. When a user wants to edit or remove a rule, the use should be able to locate the record in the data-grid either through sortable columns or a 'search' filter. Once the user has located the target record, the user may click on the record, which shall load the record information into an edit modal. The user may then edit and save the record or delete the record. Confirmation of record deletion shall be required. All options and valid input for creating or editing records shall be made available to the user where applicable. Arrant information shall prevent the record from being added.

During the quote process, when the eligible products are determined, the system shall load the rules data and process the rules similarly to the way they are hardcoded today.

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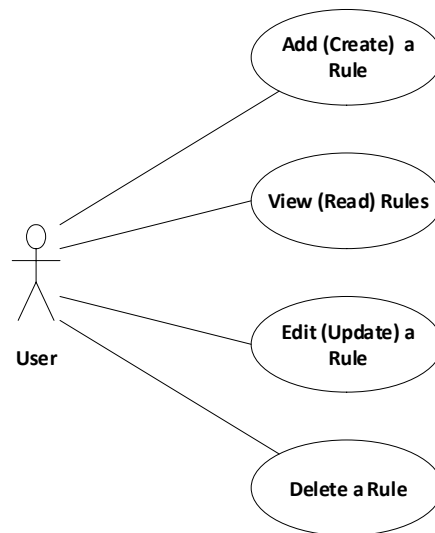
3. Specific Requirements

3.1 Functionality

3.1.1 Client-side

3.1.1.1 Use Case

Client-side functionality shall follow the basic CRUD (Create, Read, Update, and Delete) operations as seen in the use case below.



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3.1.1.2 Layout



3.1.1.3 Add (Create) a Rule

- There shall be a button labelled ‘Add Rule’ just above the table that displays existing rules.
- When the user clicks the ‘Add Rule’ button, an ‘██████████’ modal shall be shown.
- The modal shall contain the following Elements:
 - Rule Name
 - Text
 - ██████
 - Dropdown Select with the options:
 - 1
 - 2
 - 3



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- Remove (column shall be auto-populated with a red X of a trash can)
 - When clicked the agent type is removed from the table.
 - Counties
 - An 'Add' button shall be provided
 - When clicked a modal shall be presented with the elements:
 - 'State' dropdown select containing all available states.
 - '[REDACTED]' Table
 - Containing sortable columns:
 - [REDACTED]
 - [REDACTED]
 - 'Search' filter
 - Multi-row selectable
 - Containing the following all counties within the selected state
 - 'Cancel' Button
 - When clicked, the modal shall
 - Clear selection(s)
 - Close
 - 'Select' Button
 - When clicked, the modal shall
 - Return the selected data to the modal to be displayed
 - Clear selections
 - Close
 - Selected [REDACTED] are displayed in a table with the columns:
 - [REDACTED]
 - [REDACTED]
 - Remove (column shall be auto-populated with a red X of a trash can)
 - When clicked the agent type is removed from the table.
- Construction
 - An 'Add' button shall be provided
 - On click, a secondary modal labelled, [REDACTED] shall be shown with the following elements:
 - 'Type' dropdown select
 - Contains the values (w/single character stored value):
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - [REDACTED]
 - '[REDACTED]' dropdown select
 - Contains options for the selected 'Type' that match what is available respective field in the [REDACTED] page of the [REDACTED] application within the [REDACTED].
 - 'Cancel' Button
 - When clicked, the modal shall
 - Clear selection(s)
 - Close
 - 'Select' Button
 - When clicked, the modal shall
 - Return the selected data to the modal to be displayed
 - Clear selections
 - Close
 - Selected counties are displayed in a table with the columns:
 - [REDACTED]
 - [REDACTED]

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- Remove (column shall be auto-populated with a red X of a trash can)
 - When clicked the agent type is removed from the table.
- ‘Cancel’ button
- ‘Save’ button
 - When clicked, the modal shall:
 - send the form data to the server
 - On success, the modal shall:
 - add the record to the database
 - form data cleared
 - close
 - refresh page so the new record appears in the Rules table
 - On fail, the modal shall:
 - not clear form data
 - remain open
 - display an alert containing the following elements
 - title of the error
 - description of the error
 - a ‘Close’ button
 - When the ‘Close’ button is clicked:
 - the alert is closed
 - the user is returned to the modal

3.1.1.4 View (Read) Rules

- When a user selects Quote Triage Rules from the Admin menu, the user shall be presented with a ‘Rules’ table with the following columns:
 - Rule ID (hidden)
 - Rule Name
 - Start Date
 - End Date
 - [REDACTED]
 - [REDACTED]
 - Only the number of [REDACTED] that are able to fit within the column, based on width, shall be visible
 - On hover, a tooltip shall appear containing a list of all the [REDACTED] selected
 - [REDACTED]
 - Only the number of [REDACTED] that are able to fit within the column, based on width, shall be visible
 - On hover, a tooltip shall appear containing a list of all the [REDACTED] selected
 - [REDACTED]
 - Only the number of [REDACTED] options that are able to fit within the column, based on width, shall be visible
 - On hover, a tooltip shall appear containing a list of all the [REDACTED] selected
 - [REDACTED]
 - [REDACTED]
 - Delete, represented by a red X or trash can
- A ‘Search’ filter shall be provided

3.1.1.5 Edit (Update) a Rule

- Clicking on a target rule within the Rules table shall cause an Edit Rule modal to be displayed
 - Identical layout as the ‘Add a Rule’ modal
 - Populated with target rule’s data
- Clicking ‘Save’ updates the database rather than adding the rule as a new record

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3.1.1.6 Delete a Rule

- The user shall click on the delete icon (red X or trash can)
- The use shall be presented with a confirmation alert box containing the elements:
 - Title – ‘Confirm Deletion’
 - Text – ‘Are you sure you want to delete the rule <rule name>’.
 - ‘No’ button
 - On click
 - the alert shall close
 - no changes made
 - ‘Yes’ button
 - On click
 - the record shall be update with the ‘Disabled’ flag set
 - On success, the modal shall:
 - close
 - refresh page so the new record appears in the Rules table
 - On fail, the modal shall:
 - remain open
 - display an alert containing the following elements
 - title of the error
 - description of the error
 - a ‘Close’ button
 - When the ‘Close’ button is clicked:
 - the alert is closed
 - the user is returned to the modal

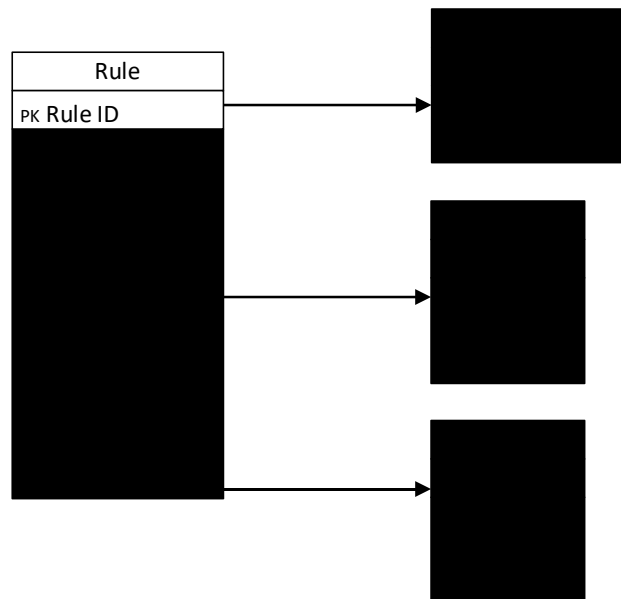
3.1.2 Server-side

- No validation should be required
 - all elements shall be provided the respective set of valid data to choose from
 - the user may not save a rule unless all required fields have been populated
- Data read requests from the client application shall be processed by:
 - Polling the data from the database
 - Formatting the results for the field type/data type being requested
- Data add requests shall add the rule, [REDACTED] (if any), [REDACTED] (if any), and [REDACTED] (if any).
- Data update requests shall update the tables

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3.1.3 Data Storage

- The basic data structure is shown below:



Rule Table

- Rule ID are an automatically generated number.
- may only be chosen from available companies.
- may not be selected until company is chosen. Options are only the set of available to the chosen company
- If no end date, the rule continues unless superseded by a newer rule with the same conditions.
- Rule name shall be an arbitrary name given to the rule.
- The 'Disabled' field is a single character flag to indicate that the rule was 'deleted'.

Table

- If no type is selected, then the rule applies to all .

Table

- If no is selected, then the rule applies to the entire .

Table

- Type field is a single character:
 -
 -
 -
 -
 -
- is the single character selected value of the component type.
- If no type is specified, then the rule applies to all types.

3.1.4 Processing

- Triage processing is done as part of the eligibility process and loading
- When the records are read, the request shall:

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- sort by date.
- exclude any record with the disabled flag set.
- The company and product used shall be determined by the following priority sequence of conditions:
 1. █████
 2. ██████████
 3. ████████
 4. ████████
- Records without █████, █████, or █████ records shall skip the condition test(s) for the respective data set.
- Only records that match the conditions for the available data shall allow the █████ and █████ to be set

3.2 Structural Design

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