**Home Insurance Application**

**Software Requirements Document**

**For ASP.Net MVC**

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# Document Purpose & Scope

The purpose of the software requirements document is to systematically capture requirements for the project and the system to be developed. Both functional and non-functional requirements are captured in this document. It also serves as the input for the project scoping.

# Intended Audience

* Project Team
* Customer (to sign off this document)

# Software System Purpose

The Main purpose of Home Insurance Quote is to provide the ability to get a new home insurance quote, retrieve an already existing quote and print the quote summary. Only registered users can get, retrieve and print quotes.

# System Scope

The Home Insurance application is expected to be used by home owners interested in buying home insurance on an e-commerce site having below functions:

1. Login:
   1. Authenticates the logged in user and logs out when needed.
2. New user:
   1. Registers a new user.
3. Get Quote:
   1. User provides the homeowner location, homeowner details, and property details and gets the home insurance quote details from the system.
4. Retrieve Quote:
   1. User logs in to view the already existing quotes that the user has created through the Get Quote module. Quote summary will be displayed for each of the quotes the user creates.
5. Buy Policy:
   1. The user can buy the policy after retrieving the quote that the user has already created.
6. View Policy:
   1. The user the view the home insurance policies that he has.
7. Admin Privileges:
   1. Renew a policy (Admin can renew the policy for the user.)
   2. Cancel a policy (Admin can cancel the policy for the user.)

# System Perspective

This is an independent system and should be implemented using J2EE technologies.

# System Environment

The product will be using the following:

* Visual Studio 2017 Community
* Entity Framework
* Web Browser (Google Chrome, etc.)

# User Characteristics

The product should be user friendly; hence the user should not need any software and hardware knowledge. The user may be new to the product in general.

# Impact of the System

This is a new product which is developed for the customers. Expected impact of the product is to automate existing manual processes to make them more efficient and cost effective.

# Login Module

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| **Login Page** |
| **Functional Requirements**   1. Provide a brief introduction of this site. 2. Provide Input fields for Username & Password. 3. Provide a link for new users to create an account. |
| **Requirements**   1. Username & Password must have text boxes. 2. Username & Password must be equal to or less than 20 characters. 3. Username & Password must only have alphanumeric characters. 4. Username & Password are mandatory. 5. Password field must mask entered characters with the \* symbol. 6. Have a Login Button. 7. Page title should be Homeowners Insurance. 8. After login, the Get Started Page should be displayed. |

# New User Module

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| **New User Page** |
| **Functional Requirements**   1. Provide Input fields for Username, Password & Re-enter Password. 2. Both Password & Re-enter Password values must be the same. |
| **Requirements**   1. All fields must have text boxes. 2. All fields must be equal to or less than 20 characters. 3. All fields must only have alphanumeric characters. 4. All fields are mandatory. 5. Have a Signup Button. 6. Page header should be New User. 7. After signup, the Get Started Page should be displayed. |

# Get Started Module

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| **Get Started Page** |
| **Functional Requirements**   1. Provide buttons for Get Quote & Retrieve Quote pages. |
| **Requirements**   1. Clicking on Get Quote should take the user to the Homeowner Page. 2. Clicking on Retrieve Quote should take the user to the Quote Details Page. 3. Page header should be Get Started. 4. User should be able to logout from the navbar. |

# Homeowner Module

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| **Homeowner Page** |
| **Functional Requirements**   1. Provide Input fields for the following:    1. First Name (Required, 30 Character Limit, Alphanumeric & Spaces only)    2. Last Name (Required, 30 Character Limit, Alphanumeric & Spaces only)    3. Date of Birth (Required, 10 Character Limit, Format: yyyy-mm-dd)    4. Are you Retired? (Required)    5. Social Security Number (Required, 9 Character Limit, Numbers only)    6. Email Address (Required, 50 Character Limit) |
| **Requirements**   1. First Name & Last Name must be String data types. 2. Date of Birth must be a valid date. 3. Are you Retired must be a checkbox/radio button. 4. Social Security Number must be a valid 9-digit, numeric value. 5. Validate the email address. 6. Page header should be Homeowner Form. 7. The Continue Button should take the user to the Location Page. 8. User should be able to logout from the navbar. |

# Location Module

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| **Location Page** |
| **Functional Requirements**   1. Provide Input fields for the following:    1. Residence Type (Required)    2. Address Line 1 (Required, 50 Character Limit, Alphanumeric & Spaces only)    3. Address Line 2 (100 Character Limit, Alphanumeric & Spaces only)    4. City (Required, 15 Character Limit, Alphanumeric & Spaces only)    5. State (Required, 15 Character Limit, Alphanumeric & Spaces only)    6. Zip (Required, 10 Character Limit, Numbers only)    7. Residence Use (Required) |
| **Requirements**   1. All fields (besides Residence Type & Residence Use) must have text boxes. 2. All fields (except Address Line 2) are mandatory. 3. Residence Type should have the following options: Single-Family Home, Condo, Townhouse, Row-house, Duplex or Apartment. 4. Residence Use should have the following options: Primary, Secondary or Rental Property. 5. Page header should be Location Form. 6. The Continue Button should take the user to the Property Page. 7. User should be able to logout from the navbar. |

# Property Module

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| **Property Page** |
| **Functional Requirements**   1. Provide Input fields for the following:    1. Market Value (Required)    2. Year Built (Required)    3. Square Footage (Required)    4. Dwelling Style (Required)    5. Roof Material (Required)    6. Garage Type (Required)    7. Number of Full Baths (Required)    8. Number of Half Baths (Required)    9. Has Swimming Pool? (Required) |
| **Requirements**   1. All fields are mandatory and must be entered as specified. 2. Dwelling Style should have the following options: 1 story, 1.5 story, 2 story, 2.5 story, 3 story. 3. Roof Material should have the following options: Concrete, Clay, Rubber, Steel, Tin or Wood. 4. Garage Type should have the following options: Attached, Detached, Basement, Built-in or None. 5. Number of Full Baths & Number of Half Baths should have the following options: 1, 2, 3 or more. 6. Has Swimming Pool must be a checkbox/radio button. 7. The Continue Button should take the user to the Coverage Details Page. 8. User should be able to logout from the navbar. |

# Coverage Details Module

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| **Coverage Details Page** |
| **Functional Requirements**   1. Display the following:    1. Monthly Premium (Required)       1. Premium = Rate x Total Coverage       2. Total coverage is the sum of items b-f.       3. Rate is $5 per year per $1000 of total coverage.       4. If Single-Family Home, add 0.05% to premium.       5. If Condo, Duplex or Apartment, add 0.06% to premium.       6. If Townhouse and Row-house, add 0.07% to premium.       7. Calculate the monthly premium by dividing the yearly premium by 12.    2. Dwelling Coverage (Required)       1. Construction cost per Square foot is $120.       2. Home value is the cost for the given square footage.       3. If Year Built is less than 5, reduce home value by 10%.       4. If Year Built is less than 10, reduce home value by 20%.       5. If Year Built is less than 20, reduce home value by 30%.       6. If Year Built is more than 20, reduce home value by 50%.       7. Dwelling coverage is 50% of market value plus the home value.    3. Detached Structure (Required)       1. This is 10% of the dwelling coverage.    4. Personal Property (Required)       1. This is 60% of the dwelling coverage.    5. Additional Living Expense (Required)       1. This is 20% of the dwelling coverage.    6. Medical Expense (Required)       1. Default value of $5000 is offered as medical expense.    7. Deductible (Required)       1. This is 1% of the market value of home. |
| **Requirements**   1. All fields are mandatory. 2. Provide a link to the Quote Terms page, Additional details screen should have a brief description of the details displayed in the quote screen. 3. The Save Quote Button should take the user to the Quote Details Page. 4. User should be able to logout from the navbar. |

# Quote Details Module

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| **Quote Details Page** |
| **Functional Requirements**   1. Provides the following information to display:    1. QuoteId    2. Residence Type    3. Address (Address Line 1 & 2)    4. City    5. State    6. Zip    7. Residence Use    8. Link to Quote Summary |
| **Requirements**   1. Information should be displayed in table format. 2. The Quote Summary link should take the user to the Quote Summary Page. 3. User should be able to logout from the navbar. |

# Quote Summary Module

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| **Quote Summary Page** |
| **Functional Requirements**   1. Provide the User’s selected quote information along with their Homeowner, Location, Property and Coverage Details. 2. Display the Buy Policy Button on both the top and bottom of the page. |
| **Requirements**   1. Provide a link to the Quote Terms page, Additional details screen should have a brief description of the details displayed in the quote screen. 2. The Buy Policy Button should take the user to the Buy Policy Page. 3. User should be able to logout from the navbar. |

# Buy Policy Module

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| **Buy Policy Page** |
| **Functional Requirements**   1. Provides the following information to display:    1. QuoteId    2. Enter Policy Start Date (Required, 10 Character Limit, Format: yyyy-mm-dd)    3. A link to the Terms and Conditions    4. Checkbox to acknowledge Terms and Conditions |
| **Requirements**   1. ‘Terms and conditions’ should be a link to the PolicyTerms page. 2. Display “Policy start date should not be more than 60 days from today’s date” if condition is not met. 3. Checkbox must be clicked by user in order to continue to the Confirmation Page. If not, display “Please e-sign to buy policy”. 4. The Submit Button should take the user to the Confirmation Page. 5. User should be able to logout from the navbar. |

# Confirmation Module

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| **Confirmation Page** |
| **Functional Requirements**   1. Provides the following information to display:    1. QuoteId    2. Policy Key    3. Policy Effective Date    4. Policy End Date    5. Policy Term    6. Policy Status |
| **Requirements**   1. Display the message: “Our customer service representative will contact you shortly for premium collection arrangements.” 2. User should be able to logout from the navbar. |

# My Policies Module

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| **My Policies Page** |
| **Functional Requirements**   1. Provides the following information to display:    1. PolicyKey    2. QuoteId    3. Policy Effective Date    4. Policy End Date    5. Policy Term    6. Policy Status |
| **Requirements**   1. Information should be displayed in table format. 2. User should be able to access this page from the navbar. 3. User should be able to logout from the navbar. |

# Search User Module

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| **Search User Page** |
| **Functional Requirements**   1. Provide Input field for Username. |
| **Requirements**   1. User must have admin privileges to see this page after logging in. 2. Username cannot be null & be equal or less than 20 characters. 3. The Search Button should take the user to the User Policies Page if valid. 4. User should be able to logout from the navbar. |

# User Policies Module

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| **User Policies Page** |
| **Functional Requirements**   1. Provides the following information to display:    1. PolicyKey    2. QuoteId    3. Policy Effective Date    4. Policy End Date    5. Policy Term    6. Policy Status    7. Link to Renew Policy    8. Link to Cancel Policy |
| **Requirements**   1. User must have admin privileges to see this page. 2. Information should be displayed in table format. 3. The Renew Policy link should take the user to the Renew Policy Page for the selected Policy. 4. The Cancel Policy link should take the user to the Cancel Policy Page for the selected Policy. 5. User should be able to logout from the navbar. |

# Renew / Cancel Module

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| **Renew / Cancel Page** |
| **Functional Requirements**   1. Provides the following information to display:    1. QuoteId    2. Policy Key    3. Policy Effective Date    4. Policy End Date    5. Policy Term    6. Policy Status |
| **Requirements**   1. Display a proper message when the user’s policy has been renewed or cancelled. 2. User should be able to logout from the navbar. |

# Logout Module

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| **Logout Page** |
| **Functional Requirements**   1. The link to this page should always be available on the navbar (except for Login and New User Pages). |
| **Requirements**   1. Display the message: “Thanks for visiting, you have been logged out.” 2. The Login Button should take the user back to the Login/Welcome Page. |

# Change Log

Please note that this table needs to be maintained even if a Configuration Management tool is used.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version Number** | **Changes made** | | | |
| V1.0 | *<First version>* | | | |
| V1.1 | *<If the change details are not explicitly documented in the table below, reference should be provided here>* | | | |
| Page no | Changed by | Effective date | Changes effected |
|  |  |  |  |
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| V1.2 | *<If the change details are not explicitly documented in the table below, reference should be provided here>* | | | |
| Page no | Changed by | Effective date | Changes effected |
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