## 4.5 Critical Use Cases and Regression Tests

The following critical use cases outline the low level details of the most important features of our application.

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| **Use Case Component** | **Description** |
| Use Case Name | ID4: Attempt to register a new user |
| Primary Actor | New User |
| Pre-conditions | At entry point of app, on main browse screen |
| Success End Conditions | Either the new user is added to the database or it is identified that the e-mail is already in the database |
| Failed End Conditions | User is not registered |
| Main Success Scenario  A: Actor  S: System | 1. A: Selects “My Profile” tab 2. A: Selects “Register Here” button 3. A: Inputs “testEmail@email.ca” in email field 4. A: Inputs “Password123” in password field 5. A: Inputs “Password” in confirm password field 6. A: Selects “Next” button 7. S: Moves to next info screen 8. A: Inputs “John” in first name field 9. A: Selects “Smith” in last name field 10. A: Selects “3065551234” in phone number field 11. A: Selects “Next” button 12. S: Moves to next info screen 13. A: Selects "Province" drop down list and selects "Alberta" 14. A: Selects "OK" button 15. A: Inputs “Edmonton” into city field 16. A: Clicks "finish" button 17. S: Adds the new user to database if it is not already |
| Extensions | III. A: Inputs “wrongFormatEmail” into email field. Should fail.  IV. A: Inputs "weakpassword" into password field. Should fail.  IV. A: Inputs “NotMatchingPassword123” into password field  A: Inputs “DifferentPassword123” into confirm password field. Should fail.  X. A: Inputs “306555” into phoneNumber field. Should fail. |
| Priority | Critical |
| Response Time | < 1 second |
| Notes | The user is will only be registered if the specific test email has not already been used. If it has been used, it will be tested in the next part of the tests to make sure it can be logged into. |

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| **Use Case Component** | **Description** |
| Use Case Name | ID4: Filter Listings |
| Primary Actor | Browser (Can be signed in, or not signed in) |
| Pre-conditions | On “Browse” page |
| Success End Conditions | Listings on “Browse” page are filtered to specifications provided |
| Failed End Conditions | Listings on “Browse” page are not filtered to specifications provided |
| Main Success Scenario  A: Actor  S: System | 1. A: Selects “Filter” button 2. A: Selects “Provinces” drop down 3. A: Selects “Yukon” and selects the “OK” button 4. A: Drags the “Price” slider between “100 000 and 1 300 000” 5. A: Drags the “Square feet” slider between “100 and 10 000” 6. A: Drags the “Bedrooms” slider between “2 and 8” 7. A: Drags the “Bathrooms” slider between “3 and 7” 8. A: Selects the “Apply Filter” button 9. S: Displays the listings from the database within the filter criteria |
| Extensions | I. - VIII. A: Selects Cancel Button  I. – VIII. A: Clicks outside of Filter pop up  I. – VIII. A: Apply filters using no specifications |
| Priority | Critical |
| Response Time | < 1 second |
| Notes |  |

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| **Use Case Component** | **Description** |
| Use Case Name | ID4: Add Trailer Listing in Saskatchewan |
| Primary Actor | Seller |
| Pre-conditions | User is logged in |
| Success End Conditions | Listing is added to “Browse” page |
| Failed End Conditions | Listing is not added to “Browse” page |
| Main Success Scenario  A: Actor  S: System | 1. A: Selects “My Listings” tab 2. A: Selects “+” button to add a listing 3. A: Selects “Province” dropdown list 4. A: Selects “Saskatchewan” province field 5. A: Selects “OK” button 6. A: Inputs “Saskatoon” in city field 7. A: Inputs “123 First Street East“ 8. A: Inputs “fls 9u8“ into Postal Code field 9. A: Inputs “130000“ into price field 10. Inputs “600” in Sq. Feet field 11. A: Inputs “5” in Bed Rooms field 12. A: Inputs “2” in Bath Rooms field 13. A: Inputs “Nice trailer with a little dust. Fixer upper.” 14. A: Adds 1 Image to images 15. A: Selects “Publish” 16. S: Attempts to Adds the listing to database |
| Extensions |  |
| Priority | Critical |
| Response Time | < 1 second |
| Notes | Disallow < 0 in Price, Bedroom, Bathroom, Sq. Ft fields.  Uploading images can only be done on mobile device. |

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| **Use Case Component** | **Description** |
| Use Case Name | ID4: changing info of existing user |
| Primary Actor | User |
| Pre-conditions | User is already signed in |
| Success End Conditions | User's information has been saved to server |
| Failed End Conditions | User's information has not been saved |
| Main Success Scenario  A: Actor  S: System | * A: Selects: "My Profile" tab * A: Inputs “test1@test.com” in email field * A: Inputs “Tester #1” in First Name field * A: Inputs “Lastname” in last name field * A: Inputs "3633126691"Primary Phone field * A: Inputs “3065551234” secondary phone number field * A: Selects "Saskatchewan" in Province dropdown list * A: inputs "Smith" into lastname field * A: inputs "3065551234" into phoneNumber field * A: Selects “Province” province drop down list * A: Inputs “Saskatoon” in city field * A: clicks notifications button * A: clicks “Save” button * S: saves the new user information to the database |
| Extensions |  |
| Priority | Critical |
| Response Time | < 1 second |
| Notes | -The notification button is not yet implemented |

The following regression tests show the automated testing of previously found bugs, and whether or not they currently exist in the system.

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| **Regression Test** | **Description** |
| Regression Test Name | ID4: Regression test: Functionality while not signed in: Using Browse and Filter functionality allows a non-logged-in user to use “My Profile”, “My Listings”, or “Favourites pages”. |
| Primary Actor | Browser |
| Pre-conditions | User is not signed in, on the Browse page |
| Success End Conditions | The user is unable to access sign-in required functionality |
| Failed End Conditions | The user has access to sign-in only functionality |
| Main Success Scenario  A: Actor  S: System | 1. A: Accesses a Listing on the “Browse” page, going to the detailed listing page 2. A: Moves to “My Listings” 3. S: The page notifies the user that signing-in is required to access the “My Listings” functionality |
| Extensions | Upon failure, the user has full access to sign-in only functionality. |
| Priority | Critical |
| Response Time | < 1 second |
| Notes |  |

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| **Regression Test** | **Description** |
| Regression Test Name | ID4: Regression test: Functionality while not signed in: “Confirm Password” field on register page allows incorrect matches. |
| Primary Actor | Browser |
| Pre-conditions | User is not signed in |
| Success End Conditions | The user is not allowed to get past the registration page without first specifying a valid password match. |
| Failed End Conditions | The user is able to continue registration |
| Main Success Scenario  A: Actor  S: System | 1. A: Selects “My Profile” page 2. A: Selects “Register” button 3. A: Enters “[test@test.com](mailto:test@test.com)” into email field 4. A: Enters “Password123” into password field 5. A: Enters “Password1234” into confirm password field 6. S: Prompts the user that the password and confirm password fields do not match |
| Extensions | Upon failure, the user is capable of registering a user that has incorrectly confirmed their password. |
| Priority | Critical |
| Response Time | < 1 second |
| Notes |  |

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| **Regression Test** | **Description** |
| Regression Test Name | ID4: Regression test: Functionality while not signed in: Multiple “My Profile” tab clicks removes all UI from the page |
| Primary Actor | Browser |
| Pre-conditions | User is not signed in |
| Success End Conditions | The “My Profile” page still has functionality, is not white/black screened, and DOM elements are not missing. |
| Failed End Conditions | The user sees a white/black screen on the “My Profile” page |
| Main Success Scenario  A: Actor  S: System | 1. A: Repeatedly presses the “My Profile” global tab 2. S: The system does nothing. |
| Extensions | Upon failure, the “My Profile” page turns white/black, losing all functionality. The user is still able to traverse to other tabs, which retain their functionality. No error is given to the user. The only way to revert the problem is to refresh the page. |
| Priority | Critical |
| Response Time | < 1 second |
| Notes |  |

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| **Regression Test** | **Description** |
| Regression Test Name | ID4: Regression test: Functionality while signing in: Test if a prompt is given after an incorrect login |
| Primary Actor | Browser |
| Pre-conditions | User is not signed in, on the Sign-In page |
| Success End Conditions | The user is given a prompt that the information provided is invalid for logging in |
| Failed End Conditions | The prompt does not display |
| Main Success Scenario  A: Actor  S: System | 1. A: Inputs “[test1@test.com](mailto:test1@test.com)” into email field 2. A: Inputs “WrongPassword” into password field 3. S: Displays prompt to user, explaining invalid log in failure |
| Extensions | Upon failure, the prompt is not displayed. |
| Priority | Critical |
| Response Time | < 1 second |
| Notes |  |

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| **Regression Test** | **Description** |
| Regression Test Name | ID4: Regression test: Functionality while signed in: Test if multiple “My Profile” tab clicks while signed in returns the user to the Sign-In screen |
| Primary Actor | Browser |
| Pre-conditions | User is signed in, on the “My Profile” page |
| Success End Conditions | The user stays on the “My Profile” page |
| Failed End Conditions | The user is redirected to the “Sign-in” page |
| Main Success Scenario  A: Actor  S: System | 1. A: Repeatedly presses the “My Profile” global tab 2. S: The system does nothing |
| Extensions | Upon failure, the user is redirect to the Sign-In page, but still has access to sign-in only functionality. |
| Priority | Critical |
| Response Time | < 1 second |
| Notes |  |