

## 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.

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	<div><div>I.</div><div>A: Selects "My Profile" tab</div><div>II.</div><div>A: Selects "Register Here" button</div><div>III.</div><div>A: Inputs "testEmail@email.ca" in email field</div><div>IV.</div><div>A: Inputs "Password123" in password field</div><div>V.</div><div>A: Inputs "Password" in confirm password field</div><div>VI.</div><div>A: Selects "Next" button</div><div>VII.</div><div>S: Moves to next info screen</div><div>VIII.</div><div>A: Inputs "John" in first name field</div><div>IX.</div><div>A: Selects "Smith" in last name field</div><div>X.</div><div>A: Selects "3065551234" in phone number field</div><div>XI.</div><div>A: Selects "Next" button</div><div>XII.</div><div>S: Moves to next info screen</div><div>XIII.</div><div>A: Selects "Province" drop down list and selects "Alberta"</div><div>XIV.</div><div>A: Selects "OK" button</div><div>XV.</div><div>A: Inputs "Edmonton" into city field</div><div>XVI.</div><div>A: Clicks "finish" button</div><div>XVII.</div><div>S: Adds the new user to database if it is not already</div></div>
Extensions	<div>III. A: Inputs "wrongFormatEmail" into email field. Should fail.</div> <div>IV. A: Inputs "weakpassword" into password field. Should fail.</div> <div>IV. A: Inputs "NotMatchingPassword123" into password field</div>

	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.

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	I. A: Selects "Filter" button II. A: Selects "Provinces" drop down III. A: Selects "Yukon" and selects the "OK" button IV. A: Drags the "Price" slider between "100 000 and 1 300 000" V. A: Drags the "Square feet" slider between "100 and 10 000" VI. A: Drags the "Bedrooms" slider between "2 and 8" VII. A: Drags the "Bathrooms" slider between "3 and 7" VIII. A: Selects the "Apply Filter" button IX. 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	

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	I. A: Selects "My Listings" tab II. A: Selects "+" button to add a listing III. A: Selects "Province" dropdown list IV. A: Selects "Saskatchewan" province field V. A: Selects "OK" button VI. A: Inputs "Saskatoon" in city field VII. A: Inputs "123 First Street East" VIII. A: Inputs "fls 9u8" into Postal Code field IX. A: Inputs "130000" into price field X. Inputs "600" in Sq. Feet field XI. A: Inputs "5" in Bed Rooms field XII. A: Inputs "2" in Bath Rooms field XIII. A: Inputs "Nice trailer with a little dust. Fixer upper." XIV. A: Adds 1 Image to images XV. A: Selects "Publish" XVI. 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	<ul style="list-style-type: none"> <li>• A: Selects: "My Profile" tab</li> <li>• A: Inputs "test1@test.com" in email field</li> <li>• A: Inputs "Tester #1" in First Name field</li> <li>• A: Inputs "Lastname" in last name field</li> <li>• A: Inputs "3633126691" Primary Phone field</li> <li>• A: Inputs "3065551234" secondary phone number field</li> <li>• A: Selects "Saskatchewan" in Province dropdown list</li> <li>• A: inputs "Smith" into lastname field</li> <li>• A: inputs "3065551234" into phoneNumber field</li> <li>• A: Selects "Province" province drop down list</li> <li>• A: Inputs "Saskatoon" in city field</li> <li>• A: clicks notifications button</li> <li>• A: clicks "Save" button</li> <li>• S: saves the new user information to the database</li> </ul>
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.

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	I. A: Accesses a Listing on the "Browse" page, going to the detailed listing page II. A: Moves to "My Listings" III. 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	

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	I. A: Selects "My Profile" page II. A: Selects "Register" button III. A: Enters " <a href="mailto:test@test.com">test@test.com</a> " into email field IV. A: Enters "Password123" into password field V. A: Enters "Password1234" into confirm password field

	VI. 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	

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	I. A: Repeatedly presses the “My Profile” global tab II. 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	

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	I.       A: Inputs " <a href="mailto:test1@test.com">test1@test.com</a> " into email field  II.       A: Inputs "WrongPassword" into password field  III.      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	

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	I.       A: Repeatedly presses the "My Profile" global tab  II.       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	