# **Testing Document**

## Group 2

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#### **Frontend:**

Our testing process for the frontend of the website consisted of exploratory testing. Focusing on things like responsiveness, proper rendering, and cross-platform compatibility among other things. Our validation for the exploratory testing consisted of observing the web pages and comparing them with our expected views.

#### **Backend:**

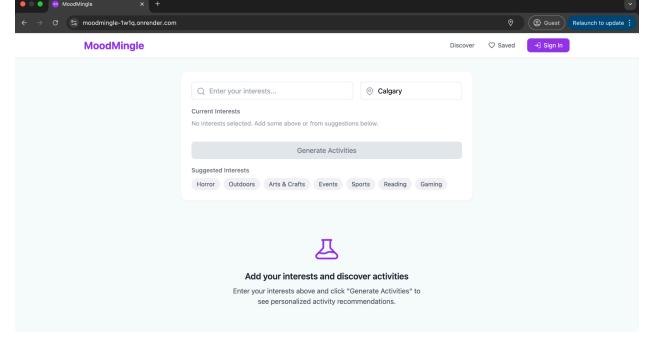
We tested the backend using Postman to ensure each API endpoint behaved as expected under various conditions. We first sent GET, POST and PUT requests to endpoints like /get-recommendations and /current-user, verifying the responses, status codes, and headers. We utilized the google chrome console to check for all actions and connections between the frontend and the backend. This consisted of validating the proper API calls, and correct connectivity among other things.

In testing the LLM, we added multiple debugging statements throughout the code to ensure that we were receiving expected output in all points of the code. We followed a similar method for the Weather and Location services where we would cross-validate the outputs with our real-world location.

#### FRONT PAGE LOADS CORRECTLY

Name	
Charter	<pre><explore frontpage=""> <with and="" console="" end="" front="" interface="" the=""> <see front="" if="" is="" loaded="" on="" page="" startup=""></see></with></explore></pre>
System Setup	Windows/Mac, Flask, Google Chrome
Test Start Time	03/19/25, 3:08 pm
Areas Tested	Ensure base link leads to the home page
How I Tested	Using the webpage UI to observe expected page
Defects	N/A
Test Stop Time	03/19/25 3:09 pm
Other Non-Charter Testing	Adding interests and having them displayed

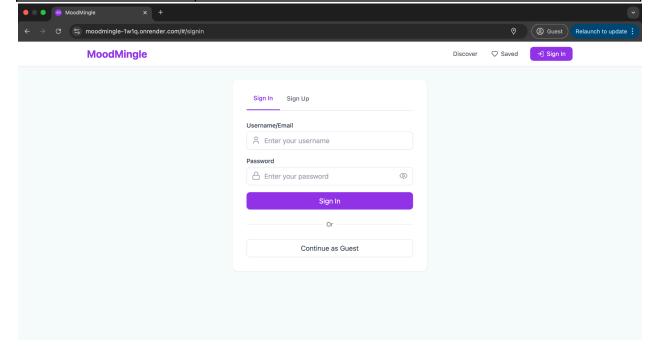




## CORRECTLY LOADS SIGN IN/UP AND ALLOWS FOR REGISTRATION OR LOGGING IN

Name	
Charter	<pre><explore in="" page="" sign="">   <with and="" console="" end="" front="" interface="" the="">   <see front="" if="" is="" loaded="" on="" page="" startup=""></see></with></explore></pre>
System Setup	Windows/Mac, Flask, Google Chrome
Test Start Time	03/19/25, 3:10 pm
Areas Tested	Ensure sign up page and sign in page properly route user. Ensure seamless transition between choices
How I Tested	Using the webpage UI to switch to and between pages
Defects	N/A
Test Stop Time	03/19/25 3:11 pm
Other Non-Charter Testing	Test "Continue as Guest" returns to the discover page

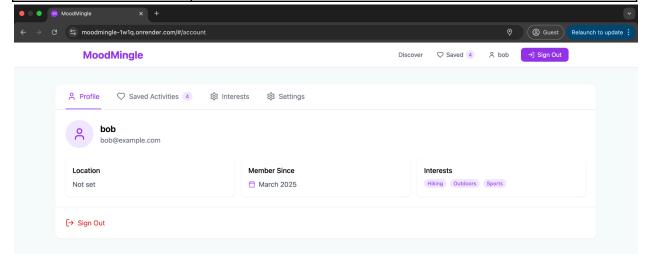
Expected vs. Actual	Sign up/in page loads, no errors on the console   Sign up/in page loaded
Behavior	with no errors or warnings.



## CORRECTLY DISPLAYS INFORMATION ON USER PROFILE

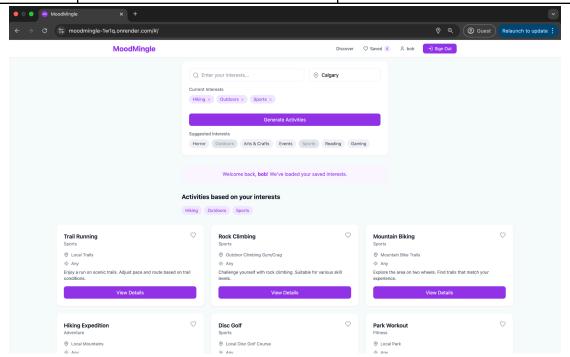
Name	
Charter	<pre><explore information="" page="" user=""> <with and="" database="" end="" front="" interface="" the=""> <see all="" and="" correct="" data="" displayed="" found="" if="" information="" is="" saved=""></see></with></explore></pre>
System Setup	Windows/Mac, Flask, Google Chrome
Test Start Time	03/19/25, 3:13 pm
Areas Tested	Ensure information displayed is accurate. Check that all data from the database is correctly obtained and displayed. Switch between the different tabs on this page and test different functionalities (Removing saved activities, removing interests, sign out)
How I Tested	Using the webpage UI to switch to and between tabs
Defects	N/A
Test Stop Time	03/19/25 3:15 pm
Other Non-Charter Testing	

_	Clean transitions between pages, responsive updates   timely transitions,
Behavior	and accurate displays



#### **CAN GENERATE RELEVANT SUGGESTIONS**

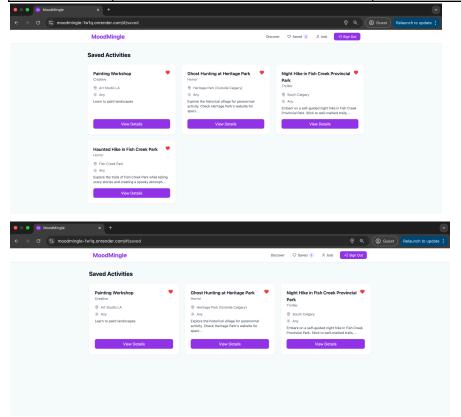
Name	
Charter	<pre><explore activity="" recommendations=""> <using frontend="" interface="" the=""> <to are="" check="" generated="" guest="" interests="" relevant="" suggestions="" that="" the="" to="" users=""></to></using></explore></pre>
System Setup	Windows/Mac, Flask, Google Chrome
Test Start Time	03/19/25, 3:16 pm
Areas Tested	Entered various interests and preferences on a guest users account and checked that the generated activities are relevant to said interests
How I Tested	Enter various interests to see if recommendations are relevant
Defects	N/A
Test Stop Time	03/19/25 3:20 pm
Other Non-Charter Testing	Making sure activities can correctly be saved



## **CAN DELETE SAVED ACTIVITIES**

Name	
Charter	<pre><explore activities="" deleting="" saved=""> <with and="" console="" end="" front="" interface="" the=""> <see activity="" an="" deletion="" for="" future="" if="" is="" logins="" saved=""></see></with></explore></pre>
System Setup	Windows/Mac, Flask, Google Chrome
Test Start Time	03/19/25, 3:21 pm
Areas Tested	Ensure that an activity deleted from saved page is confirmed in database
How I Tested	Navigate to saved page and remove activity, log out and then return to validate that activity is correctly deleted
Defects	N/A
Test Stop Time	03/19/25 3:22 pm
Other Non-Charter Testing	

Expected vs. Activity is removed from webpage and database   activity is gone	Users can properly store favorited activities
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## SAVED ACTIVITIES PERSIST THROUGH BROWSER SESSIONS

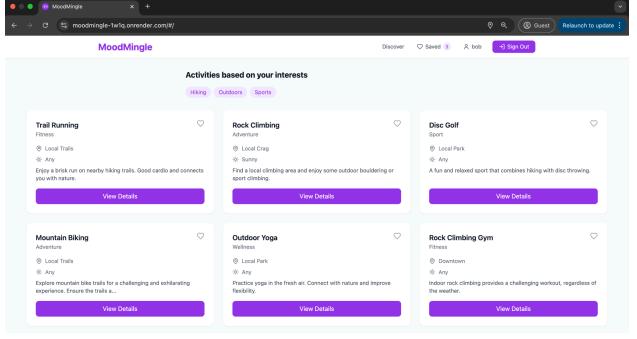
Name	
Charter	<pre><explore activities="" data="" in="" persistence="" saved=""> <with and="" console="" end="" front="" interface="" the=""> <see activity="" an="" future="" if="" in="" is="" logins="" saved=""></see></with></explore></pre>
System Setup	Windows/Mac, Flask, Google Chrome
Test Start Time	03/19/25, 3:31 pm
Areas Tested	Ensure that an activity is saved from a previous login
How I Tested	Generate an activity, save it, log out, log back in and check whether activity is still saved
Defects	N/A
Test Stop Time	03/19/25 3:33 pm
Other Non-Charter Testing	

Activity shows up in the saved information   activity was there	Users can save data for future use
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#### GENERATE RECOMMENDATION BASED ON LOCATION AND WEATHER

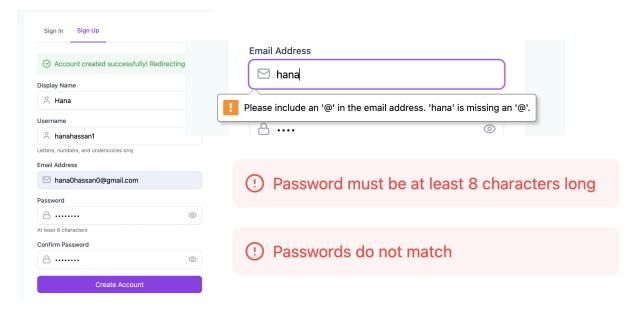
Name	
Charter	<pre><explore and="" based="" generation="" location="" on="" recommendation="" weather=""> <with and="" api="" database,="" end="" front="" interface="" the="" weather+llm=""> <see and="" are="" if="" location="" pertinent="" recommendations="" to="" weather=""></see></with></explore></pre>
System Setup	Windows/Mac, Flask, Google Chrome
Test Start Time	03/19/25, 4:30 pm
Areas Tested	- Generate Activites, check if activities generated are close to location and if the weather conditions are taken into account
How I Tested	- Added in interests catered towards outdoors and checked results
Defects	N/A
Test Stop Time	03/19/25, 4:31 pm
Other Non-Charter Testing	

Expected vs. Actual Behavior	Expected: Recommendations based on current weather and activities based in calgary	Activities are based on current weather conditions so the activities are relevant the situations.
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## **CREATING AN ACCOUNT**

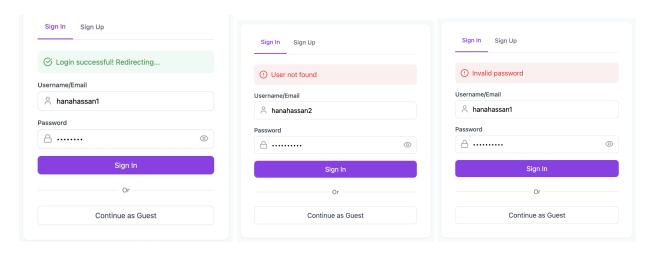
Name	
Charter	<pre><explore page="" sign="" up=""> <with and="" database="" end="" front="" interface="" the=""> <see account="" added="" and="" created="" database="" if="" is="" to=""></see></with></explore></pre>
System Setup	Windows/Mac, Flask, Google Chrome
Test Start Time	03/19/25, 4:22 pm
Areas Tested	<ul> <li>Entered user details (name, username, email, &amp; password) and submitted the account creation form.</li> <li>Checked if the account was successfully created.</li> <li>Verified if the user could log in after account creation.</li> </ul>
How I Tested	<ul> <li>Input valid user credentials and attempt to create an account.</li> <li>Attempted to create an account with missing or invalid details to check validation.</li> <li>Logged in with the newly created account to confirm successful creation.</li> </ul>
Defects	N/A
Test Stop Time	03/19/25, 4:30 pm
Other Non-Charter Testing	<ul> <li>Check for correct and incorrect email format</li> <li>Verified if error messages appeared for missing or invalid fields.</li> <li>Ensured password security requirements were enforced.</li> <li>Ensures password matching</li> </ul>
Expected vs. Actual Behavior	Expected: Account should be created successfully when valid details are entered, and the user should be able to log in. Actual: Account was created without issues, and login worked as expected.



## LOG IN TO AN ACCOUNT

Name	
Charter	<pre><explore login="" page=""> <with and="" database="" end="" front="" interface="" the=""> <see account="" can="" created="" if="" into="" log=""></see></with></explore></pre>
System Setup	Windows/Mac, Flask, Google Chrome
Test Start Time	03/19/25, 4:30 pm
Areas Tested	<ul> <li>Entered valid credentials and successfully logged into an existing account.</li> <li>Tested login with incorrect credentials to verify error handling.</li> <li>Checked if the system handled session management properly.</li> </ul>
How I Tested	<ul> <li>Attempted to log in with the correct email and password.</li> <li>Entered incorrect passwords to check error messages.</li> <li>Tried logging in with an unregistered email.</li> </ul>
Defects	N/A
Test Stop Time	03/19/25, 4:33 pm
Other Non-Charter Testing	<ul> <li>Checked if login errors provided appropriate feedback without exposing sensitive details.</li> <li>Ensured the user could log out and that sessions ended correctly.</li> </ul>

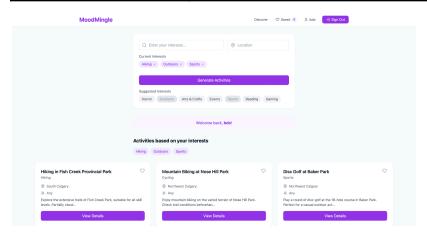
correctly, and session persisted properly.	Behavior	Expected: The user should be able to log in with valid credentials, receive error messages for incorrect login attempts, and be redirected to the appropriate page upon successful login.  Actual: Login functioned as expected, error messages displayed correctly, and session persisted properly.
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## GENERATE ACTIVITY RELATED TO INTEREST

Name	
Charter	<pre><explore activities="" discover="" generating="" interests="" on="" page="" with=""> <with end="" front="" interface="" the=""> <see are="" generated="" if="" interests.="" relevant="" selected="" suggestions="" the="" to="" user's=""></see></with></explore></pre>
System Setup	Windows/Mac, Flask, Google Chrome
Test Start Time	03/19/25, 5:30 pm
Areas Tested	<ul> <li>Entered various interests and preferences in a user's account.</li> <li>Checked that the system-generated activities matched the selected interests.</li> <li>Verified if changes in interests affected recommendations.</li> </ul>
How I Tested	<ul> <li>Selected different interests to observe if recommended activities aligned with them.</li> <li>Tested broad vs. niche interests to assess system adaptability.</li> <li>Entered conflicting or unrelated interests to see how the algorithm handled them.</li> <li>Checked if deleting the recommendations provided new, relevant suggestions.</li> </ul>
Defects	N/A
Test Stop Time	03/19/25, 5:46 pm
Other Non-Charter Testing	- Tested if recommendations changed dynamically with different user inputs.

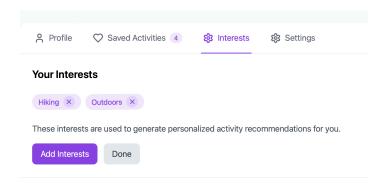
Behavior	Expected: The system should generate activities that match or closely align with the user's selected interests.  Actual: The system successfully suggested relevant activities based on the entered interests.



## REMOVE INTEREST FROM SAVED INTERESTS ON USER PAGE

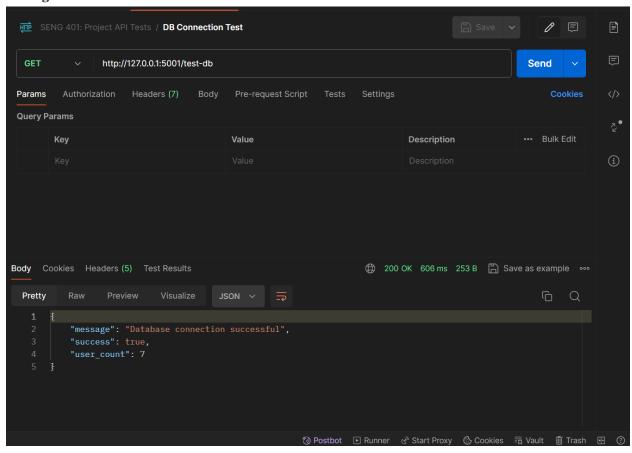
Name	
Charter	<pre><explore a="" from="" functionality="" interests="" of="" removing="" saved="" the="" user's=""> <with end="" front="" interface="" the=""> <see &="" activity="" affect="" appears="" database="" frontend="" if="" in="" interests="" longer="" no="" or="" recommendations="" removed=""></see></with></explore></pre>
System Setup	Windows/Mac, Flask, Google Chrome
Test Start Time	03/19/25, 5:50 pm
Areas Tested	<ul> <li>Removed one or multiple interests from the saved list.</li> <li>Verified that removed interests no longer influenced activity recommendations.</li> <li>Checked if the removed interests reappeared after a page refresh or logout/login.</li> </ul>
How I Tested	<ul> <li>Selected interests and saved them.</li> <li>Removed an interest and checked if it was removed from the list.</li> <li>Refreshed the page and logged out/logged back in to ensure persistence.</li> <li>Observed if activity recommendations changed after removing an interest.</li> </ul>
Defects	N/A
Test Stop Time	03/19/25, 5:54 pm
Other Non-Charter Testing	- Verified if removing all interests reset the recommendation system.

Expected vs. Actual Behavior	Expected: The removed interest should no longer appear in the saved list and should not influence activity recommendations.
	Actual: The system successfully removed interests, and recommendations adjusted accordingly.

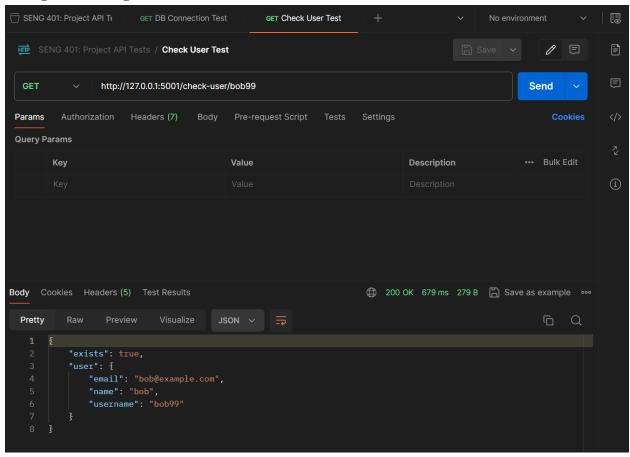


## **API Test (via Postman):**

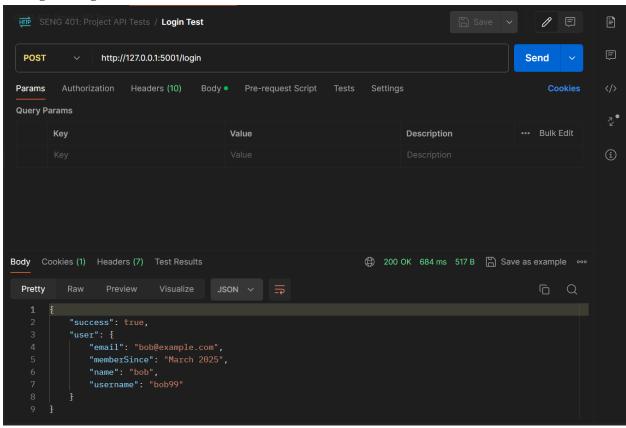
## **Testing the DB Connection:**



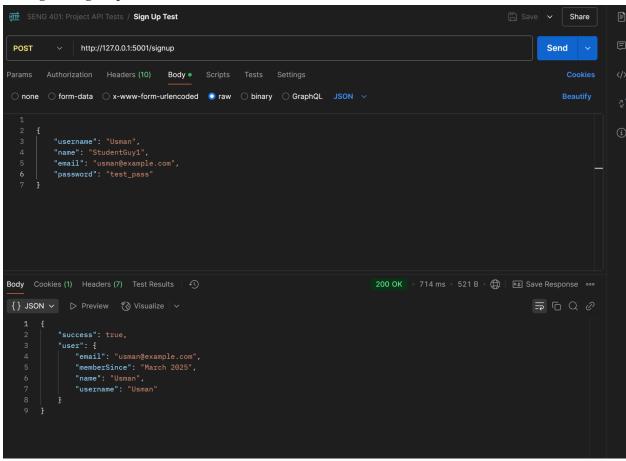
## **Testing the checking for User:**



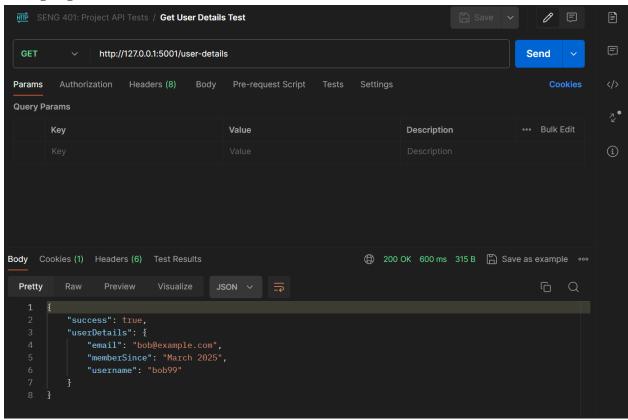
## **Testing the Login Test:**



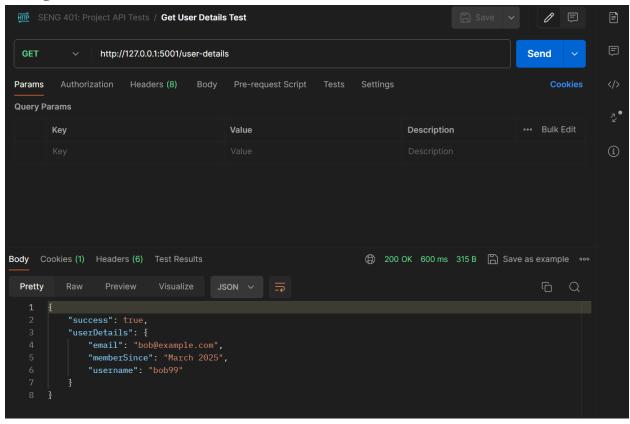
## **Testing the Sign-Up feature:**



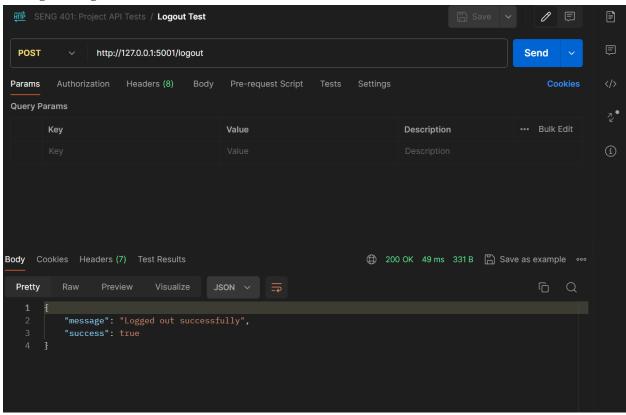
## Testing to get user details:



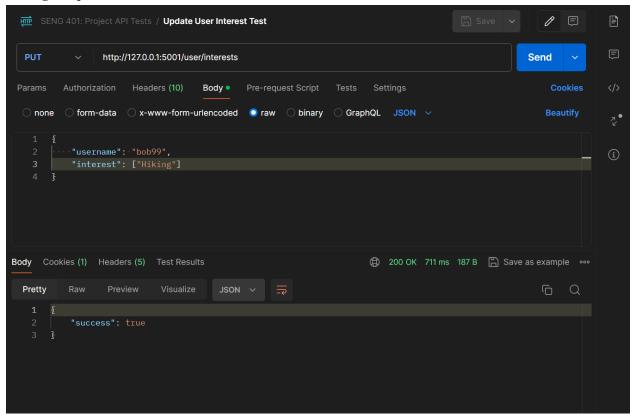
## **Getting the current user test:**



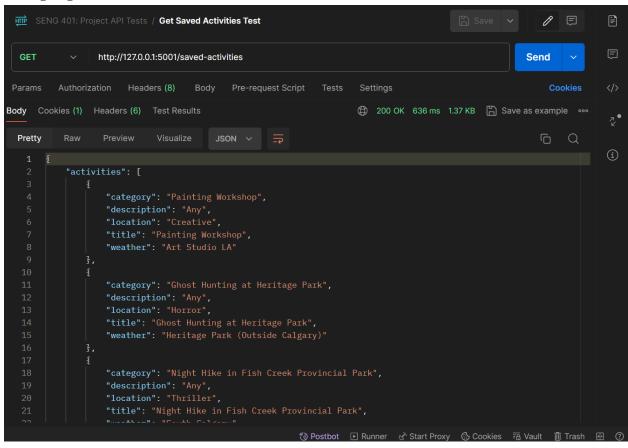
## **Testing the Logout User:**



## **Testing to update the users interest:**



#### **Testing to get the saved interests:**



## **Testing to save the user's interests:**

