System Test Scenarios:

User Stories:

1. As a traveler, I want to be able to create an account and personal profile to save my trip information, as well as update my profile picture, password, and name.
2. As a traveler, I want the ability to navigate around an intuitive, interactive world map that allows me to drop pins to highlight any place or landmark of interest.
3. As a traveler, I want to write descriptive thoughts or captions about the location, such as travel experiences, favorite moments, and reflections, so that I can memorize my travel history.
4. As a traveler, I want to upload pictures and videos that I took during my trips to visually document my experiences.
5. As a traveler, I want to have access to statistics that track the total distance traveled, how many countries; cities, or continents I've visited to make traveling more fun and interactive.
6. As a planner, I want to better easily plan my trips, creating a list of places and favorites I want to tour and having the ability to easily see how much progress I have made in my list during the trip automatically so that I can gain a feeling of checking off my bucket list and inspire planning for future trips.
7. As a traveler, I want to search for a location and be automatically directed to it on the map, so that I can quickly access and pin it to my travel log.
8. As a frequent adventurer, I want to see an interactive summary of all my travels by having all my journal entries, photos and videos compiled into a nice timeline of events, so I can go back and revisit one-in-a-lifetime experiences again in the future.
9. As an avid explorer, I want to view an overview of my past trips as a visually engaging slideshow by category, so that I can easily relive and cherish my travel experiences.
10. As a traveler, I want to see other people's trips & journals to gain inspiration on where to make my trip.

Scenarios

As a traveler, I want to be able to create an account and personal profile to save my trip information, as well as update my profile picture, password, and name.

Scenario 1: Signup (Pass)
1. Start web app; select "Login" or "Let's Go"; click "Click here to sign up"; type
   Username = <testUser>

Email = <test@gmail.com>
Password = <test123pw>
Confirm password = <test123pw>
Click "Sign Up"
2. User is now logged in at the landing page, but the nav bar would have more options

Scenario 2: Login (Pass)
1. Continuing from previous, so click the logout button on the top right corner of Nav Bar
2. Type
Email = <test@gmail.com>
Password = <test123pw>
3. The user is now logged in at the landing page, with the nav bar having more options

Scenario 3: View Profile (Pass)
1. Click "Profile" on the navigation bar
2. The user information should be displayed as follow:
Username of "testUser"
Default bio of "My Travelog Bio!"
Statistics as 0 for continents, countries, and cities

Scenario 4: Edit Profile Username and Bio (Pass)
1. Click "Edit Profile"
2. Update first box as <updatedUsername>
3. Update second box as <updated bio!>
4. Click "Save Changes"
5. User should now see the reflected username and bio on the screen

Scenario 5: Update Password - Incorrect Current Password (Pass)
1. Click "Edit Profile"
2. Click "Change Password"; Type
Current Password = <wrong>
New Password = <pwpwpw>
Confirm New Password = <pwpwpw>
3. User should see in red "incorrect current password"

Scenario 6: Update Password - Correct Current Password (Pass)
1. Update the first box (Current Password box) to <test123pw>
2. Click "Update"
3. User should be back at the profile page
4. Click the top right icon to log out (back at the login screen); type
Type
Email = <test@gmail.com>
Password = <pwpwpw>
5. User is now logged in again

Scenario 7: Update profile picture (pass)
1. Click "Profile" in the Nav Bar
2. Click "Edit profile"
3. Click on the image icon (default gray and white icon); Select any image from your computer
4. The profile picture is now updated

As a traveler, I want the ability to navigate around an intuitive, interactive world map that allows me to drop pins to highlight any place or landmark of interest.

Scenario 8: Navigate around world map (Pass)
1. Click "Map" in the Nav Bar, or "Let's go…" after being signed in
2. Scroll down/up -> zoom of map should change
3. Drag to move around the map -> latitude and longitude coordinates should change, move view to a different location
4. If on mobile or on touchscreen: use two fingers and swipe down/up to adjust z index of map -> allow for 3D views

Scenario 9: Drop Pins on Map (Pass)
1. Click "Map" in the Nav Bar, or "Let's go…" after being signed in
2. Click on the blue "plus" button on the bottom right corner
3. Click on any location in the map.
4. Pin should be present and show on the dropped location on the map.

As a traveler, I want to write descriptive thoughts or captions about the location, such as travel experiences, favorite moments, and reflections, so that I can memorize my travel history.

As a traveler, I want to upload pictures and videos that I took during my trips to visually document my experiences.

Scenario 10: Add Journal / See in Saved Page (Pass)
1. Click "Map" in the Nav Bar, or "Let's go…" after being signed in
2. Click on a pin that is present on the map.
3. Assert that a small popup menu appears. Click on "Add Journal".
4. Assert that a large journal modal appears with input fields such as "Title", "Category", "Location", "Status", "Start Date", "End Date", and "Journal".
5. Enter:
   a. Title = <Test Entry!>
   b. Category = <Testing>
   c. Location= keep as default
   d. Status=<Visited>
   e. Start Date = keep as default

       f.   End Date = change to current day + 12 days
6. In the journal entry, click on the "Add Images to Grid" button and select 5-7 images from your computer.
7. In the text portion of the journal entry, type <"Testing description!">
8. Click "Submit".
9. Assert that "Test Entry!" is visible in the Memories section of the popup menu for this pin.
10. Click on "Test Entry!".
11. Assert that the fields are correct based on information entered previously.
12. Assert that the number of image previews = number of images added.
13. Assert that the images maintain their original aspect ratio (images are not cut).
14. Journal is now saved under this pin for the user account.
15. Click on "Saved" in the Nav Bar.
16. Assert that the "Testing" category is present. Click on "Testing".
17. Assert that "Test Entry!" is one of the cards that are present in the category "Testing".
18. Click on "Test Entry!".
19. Assert that the same journal details are shown as previously checked.

As a traveler, I want to search for a location and be automatically directed to it on the map, so that I can quickly access and pin it to my travel log.

Scenario 11: Search for Location (Pass)
1. Click "Map" in the Nav Bar, or "Let's go…" after being signed in
2. Click on the search bar with the placeholder "Search for places…".
3. Type <Bellagio Las Vegas>.
4. Assert that a suggestion "MGM Resorts International, 3600 Las Vegas Blvd S, Las Vegas, Nevada 89109, United States" comes up, then click on it.
5. The user should be directed to coordinates long: -115.18, lat: 36.11 and be directed to the Bellagio Hotel location in the Las Vegas Strip.
6. Assert that a temporary dark blue pin is dropped at the searched location (Bellagio hotel).
7. Clear the search bar by pressing the "X" after hovering over the search bar.
8. Assert that the temporary dark blue pin no longer shows up on the map.

As a traveler, I want to see other people's trips & journals to gain inspiration on where to make my trip.

Scenario 12: See Other Posts (Pass)
1. Start web app; select "Login", and type:
        Email = <travelog@gmail.com>
        Password = <travelog>
        Click "Login"
2. Click on "Explore" in the Nav Bar
3. Assert that the title "Test Entry Scenario12!!" Does not show up in the explore page.
4. Click on the "Logout" icon on the top right corner of the web application.

5. Start web app; select "Login", and type:
   Email = <molly@gmail.com>
   Password = <mollymember>
   Click "Login"
6. Click "Map" in the Nav Bar, or "Let's go…" after being signed in
7. Click on a pin that is present on the map.
8. Assert that a small popup menu appears. Click on "Add Journal".
9. Enter (as in Scenario 10):
   a. Title = <Test Entry Scenario12!!>
   b. Category = <Testing>
   c. Location= keep as default
   d. Status=<Visited>
   e. Start Date = keep as default
   f. End Date = change to current day + 12 days
10. In the journal entry, click on the "Add Images to Grid" button and select 5-7 images from your computer.
11. In the text portion of the journal entry, type <"Testing description!">
12. Click "Submit".
13. Assert that "Test Entry Scenario12!!" is visible in the Memories section of the popup menu for this pin.
14. Click on the "Logout" icon on the top right corner of the web application.
15. Log back in as:
    Email = <travelog@gmail.com>
    Password = <travelog>
    Click "Login"
16. Click on "Explore" in the Nav Bar
17. Assert that the title "Test Entry Scenario12!!" now **does show up** in the explore page.

As an avid explorer, I want to view an overview of my past trips as a visually engaging slideshow by category, so that I can easily relive and cherish my travel experiences.

Scenario 13: Saved Page Organizes Trips by Category (Pass)
1. Click "Map" in the Nav Bar, or "Let's go…" after being signed in
2. Drop a new pin onto the map.
3. Click on that pin.
4. Assert that a small popup menu appears. Click on "Add Journal".
5. Assert that a large journal modal appears with input fields such as "Title", "Category", "Location", "Status", "Start Date", "End Date", and "Journal".
6. Generate a random number from 1-10^7 (this test case generates 678, 456789, 105678).
7. Enter:
   a. Title = <Test Entry 678!>
   b. Category = <Testing>
   c. Location= keep as default

       d. Status=<Visited>

       e. Start Date = keep as default

       f. End Date = change to current day + 12 days

8. In the journal entry, click on the "Add Images to Grid" button and select 2 unique images not used previously from your computer.
9. In the text portion of the journal entry, type <"Testing description!">
10. Click "Submit".
11. Assert that "Test Entry!" is visible in the Memories section of the popup menu for this pin.
12. Repeat steps 2 - 11 for different titles with different random numbers, but all in the same category (do this 5 times).
13. Click on the "Saved" tab in the Nav Bar.
14. Assert that the "Testing" category is still present.
15. Click on the "Testing" category.
16. Assert that there are 5 "Test Entry <random number>!" titles in the page.
17. Assert that the slideshow of images on the side has 10 unique images.

Unit Tests:

- **Backend:**
    - backend/auth_service/src/test/
    - backend/user_service/src/test/
    - backend/travel_service/src/test/
- **Frontend:**
    - TravelogUI2/__tests__/app/