

TEST CASES

M.A.P.S.



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Legend

- **HOME** | The screen that appears when the user first opens the app
- **TEXT** | The screen that the user is brought to when they click on the button in the navigation bar with the same name
- **Text** | A button labeled with “Text”
- “Text” | Text to be entered/selected by the user
- **Text** | System messages and text boxes

Definitions

- **Point of Interest (POI)** : a building (i.e. lecture halls, Price Center, etc.) on the UCSD campus

TC 1 - Get Directions to the Destination

Description

This test case outlines the ability for the user to acquire directions to a destination.

Actors

The phone user

Desired Outcome

The user gets directions from a starting POI to a destination.

User Goal

The user wants to know how to get to a destination from a starting POI.

Dependent Test Cases

N/A

Requirements

SR 01

Priority

1

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to know how to navigate from Price Center to Center Hall.

Workflow

1. The user shall enter “**Price Center**” in the [Current Location](#) field.
2. The user shall enter “**Center Hall**” in the [Destination](#) field.
3. The user shall click the **Find Path** button.
4. The system shall display:

[Price Center](#)

[--> Same Plaza -->](#)

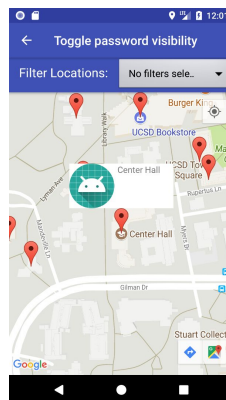
[Bookstore](#)

[--> Library Walk -->](#)

[Center Hall](#)

Alternate Workflow

1. The user finds the destination from the **Map** screen.
 - a. The user shall swipe left on the navigation bar.
 - b. The user shall click on the **Map** button.
 - c. The system shall bring the user to the **Map** screen.
 - d. The user shall click on the Center Hall marker.
 - e. The system shall display a bubble with the [Center Hall](#) on top of the dropmark.



- f. The user shall click on the bubble.
- g. The system shall display the description page of Center Hall.
- h. The user shall click the [Set as Destination](#) button.
- i. The system shall display the **HOME** screen with [Center Hall](#) in the [Destination](#) field.

- j. The user shall enter “**Price Center**” in the [Current Location](#) field.
- k. The user shall click the [Find Path](#) button.
- l. The system shall display:

[Price Center](#)

[--> Same Plaza -->](#)

[Bookstore](#)

[--> Library Walk -->](#)

[Center Hall](#)

2. The user does not input anything in at least one field or inputs invalid POI names.
 - a. The user shall enter “**a**” in the [Current Location](#) field.
 - b. The user shall enter “**b**” in the [Destination](#) field.
 - c. The user shall click the [Find Path](#) button.
 - d. The system shall display a toast message “[Please enter valid POI location\(s\)](#)”.

Expected Result

1. The test passes when the user sees a screen displaying the path listed in step 4.
2. The first alternate test passes when the user sees a screen displaying the path listed in step h.
3. The second alternate test passes when the user sees a toast message that says “[Please enter valid POI location\(s\)](#)”.

Option

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TC 2 - View Path to a Destination on Map

Description

This test case outlines the ability for the user to view the path on the map from the starting POI to the destination POI.

Actors

The phone user

Desired Outcome

The user gets a visual path on the map from the starting POI to the destination POI.

User Goal

The user wants to see, on the map, the path from the starting POI to the destination POI.

Dependent Test Cases

TC 1

Requirements

SR 02

Priority

1

Status

Completed

Pre-Conditions

The user shall be at the direction page with text descriptions of the path from Price Center to Center Hall.

Trigger

The user desires to see a visual path to their destination.

Workflow

1. The user shall click the **View Map** button.
2. The system shall bring the user to the **Map** screen.
3. The system shall display the **Map** screen, centered on the Price Center marker.
4. The system shall draw a red line passing from Price Center marker to the Bookstore marker to the Center Hall marker.

Alternate Workflow

N/A

Expected Result

The test passes if the user is at the **Map** screen and sees a line starting at the Price Center marker, passing through the Bookstore marker, and ending at the Center Hall marker.

Option

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TC 3 - View Current Location

Description

This test case outlines the ability for the user to see their current location.

Desired Outcome

The user knows where they are on the map.

User Goal

The user wants to see where they are on the map.

Dependent Test Case

N/A

Requirements

SR 03

Priority

1

Status

Completed

Precondition

The user is at the **HOME** screen.

Trigger

The user wants to know where they currently are.

Workflow

1. The user shall swipe from the left edge of the screen to open the navigation bar.
2. The user shall click on the **Map** button.
3. The system shall bring the user to the **Map** screen.

4. The system shall focus the map on the user's current location with the default zoom ratio.

Alternate Workflow

1. The user moves the map to see other areas.
 - a. The user shall tap on the **View Current Location** button.
 - b. The system shall move the map back to focus on the user's current location with default zoom ratio.

Expected Result

The test passes if the user is at the **Map** screen and the screen is focused on the user's current location, displayed as a blue dot in the middle of the screen, and show the surrounding area with the default zoom ratio.

Option

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TC 4 - View Floor Plan

Description

This test case outlines the ability for the user to view the floor plan of a point of interest (POI) in UCSD.

Actors

The phone user

Desired Outcome

The user sees the floor plan of the POI and knows how to find the exact location of a certain room.

User Goal

The user wants to know the exact location of a certain room in the POI.

Dependent Test Cases

N/A

Requirements

SR 04

Priority

1

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to know where they currently are.

Workflow

1. The user shall swipe right from the left side of the screen to open the navigation bar.
2. The user shall click the **Map** button.
3. The system shall display the **Map** screen.
4. The user shall click on the marker of **Center Hall**.
5. The system shall display an icon with **Center Hall** on top of the icon.
6. The user shall click the icon.
7. The system shall bring the user to the description page of Center Hall.
8. The user shall click the **Floor Plans** button.
9. The system shall display the floor plan of Center Hall (may take a couple seconds).

Alternate Workflow

1. The floor plan of the building is not available.
 - a. (after step 3) The user shall click the marker for **Bookstore**.
 - b. The system shall display an icon with **Bookstore** on top of the icon.
 - c. The user shall click the icon.
 - d. The system shall bring the use to the description page of Bookstore.
 - e. The user shall click the **Floor Plans** button.
 - f. The system shall display an image with an error message [“Sorry, no floor plan is available at this time.”](#).
2. The user searches up the floor plan manually.
 - a. The user shall swipe right from the left side of the screen to open the navigation bar.
 - b. The user shall click on the **Floor Plans** option.
 - c. The system shall show the search floor plan screen.
 - d. The user shall type in “**Center Hall**” in the [Search for floor plan](#) input field.
 - e. The user shall click on the **ENTER** button.
 - f. The system shall display the floor plan of Center Hall.
3. The user searches the floor plan manually and either does not enter anything or enters a name that’s not a POI in the [Search for floor plan](#) input field.
 - a. The user shall swipe right from the left side of the screen to open the navigation bar.
 - b. The user shall click on the **Floor Plans** option.
 - c. The system shall show the search floor plan screen.
 - d. The user shall type in “a” in the [Search for floor plan](#) input field.
 - e. The user shall click on the **ENTER** button.

- f. The system shall display a new screen with an error message [“Sorry, no floor plan is available at this time.”](#).

Expected Result

1. The test passes if the user sees the floor plan of Center Hall displayed on the screen.
2. The first alternate test passes if the user sees an image displaying the error message [“Sorry, no floor plan is available at this time.”](#).
3. The second alternate test passes if the user sees the floor plan of Center Hall displayed on the screen.
4. The third alternate test passes if the user sees an image displaying the error message [“Sorry, no floor plan is available at this time.”](#).

Option

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TC 5.1 - Find Admin POIs

Description

This test case outlines the ability for the user to find Point of Interests (POIs) related to UCSD administration buildings.

Actors

The phone user

Desired Outcome

The user knows what POIs are related to UCSD Administration.

User Goal

The user wants to find POIs that are related to UCSD Administration.

Dependent Test Cases

N/A

Requirements

SR 02 / SR 05

Priority

2

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

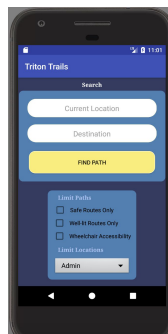
The user wants to know which POIs are related to UCSD Administration.

Workflow

1. The user shall swipe right from the left side of the screen.
2. The system shall display the navigation bar.
3. The user shall click the **Map** button.
4. The system shall display the **Map** screen.
5. The user shall select **Admin** from the **Filter Locations** drop-down menu.
6. The system shall display all POIs related to UCSD Administration:
 - a. Career Services Center
 - b. Copley International Conference Center
 - c. CSE Building
 - d. HDH Administration Building
 - e. Ida and Cecil Green Faculty Club
 - f. International Student Center
 - g. Old Student Services Center
 - h. Price Center
 - i. Student Health and Wellness Center
 - j. Student Services Center

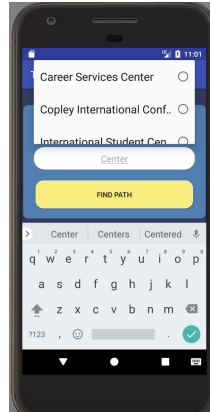
Alternate Workflow

1. (Directly filter destinations while searching for a path.)
 - a. The user shall select **Admin** from the **Limit Locations** dropdown.



- b. The user shall type **“Center”** in the **Destination** form field.
- c. The system shall only list POIs related to UCSD Administration as autocomplete options:
 - i. Copley International Conference Center
 - ii. Price Center

- iii. Old Student Services Center
- iv. Student Services Center
- v. Student Health and Wellness Center
- vi. Career Services Center
- vii. International Student Center



Expected Result(s)

1. The test passes when when the **Map** screen displays all the POIs listed under Workflow step 6.
2. The alternate test passes when the autocomplete options for the **Destination** field only displays POIs listed under Alternate Workflow 1 step c.

Option

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TC 5.2 - Find Classroom POIs

Description

This test case outlines the ability for the user to find Point of Interest (POIs) used as classrooms.

Actors

The phone user

Desired Outcome

The user knows what POIs are classrooms.

User Goal

The user wants to find POIs that are classrooms.

Dependent Test Cases

N/A

Requirements

SR 02 / SR 05

Priority

2

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to know which POIs have classrooms.

Workflow

1. The user shall swipe right from the left side of the screen.
2. The system shall display the navigation bar.
3. The user shall click the **Map** button
4. The system shall display the **Map** screen.
5. The user shall select **Classroom** from the **Filter Locations** drop-down menu.
6. The system shall only display POIs related to Classrooms:
 - a. AP&M
 - b. Atkinson Hall
 - c. Center Hall
 - d. Cognitive Science
 - e. Communication Building
 - f. Conrad Prebys Music Center
 - g. CSE Building
 - h. Galbraith Hall
 - i. HSS - Humanities and Social Sciences
 - j. Ida and Cecil Green Faculty Club
 - k. Ledden Auditorium
 - l. Mandeville Auditorium
 - m. Mandler Hall
 - n. McGill Hall
 - o. Meyer Hall
 - p. Pacific Hall
 - q. Pepper Canyon Hall
 - r. Peterson Hall
 - s. Price Center
 - t. Rady School of Management
 - u. Robinson Auditorium
 - v. Sequoyah Hall
 - w. Social Sciences Building
 - x. Solis Hall
 - y. Urey Hall
 - z. Warren Lecture Hall
 - aa. York Hall

Alternate Workflow

1. (Directly filter destinations while searching for a path.)
 - a. The user shall select **Classroom** from the [Limit Locations](#) dropdown.
 - b. The user shall type “Hall”.
 - c. The system shall only display all POIs that contains Classrooms as autocomplete options:
 1. Atkinson Hall
 2. Center Hall
 3. Galbraith Hall
 4. Mandler Hall
 5. McGill Hall
 6. Meyer Hall
 7. Pacific Hall
 8. Pepper Canyon Hall
 9. Peterson Hall
 10. Solis Hall
 11. Sequoyah Hall
 12. Urey Hall
 13. Warren Lecture Hall
 14. York Hall

Expected Result

1. The test passes when when the **Map** screen displays all the POIs listed under Workflow step 6.
2. The alternate test passes when the autocomplete options for the [Destination](#) field only displays POIs listed under Alternate Workflow 1 step c.

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TC 5.3 - Find Food POIs

Description

This test case outlines the ability for the user to find Point of Interests (POIs) that provide food on campus.

Actors

The phone user

Desired Outcome

The user knows what POIs provide food.

User Goal

The user wants to find POIs that provide food.

Dependent Test Cases

N/A

Requirements

SR 02 / SR 05

Priority

2

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to know which POIs that have food.

Workflow

1. The user shall swipe right from the left side of the screen.
2. The system shall display the navigation bar.
3. The user shall click the **Map** button
4. The system shall display the **Map** screen.
5. The user shall select **Food** from the **Filter Locations** drop-down menu.
6. The system shall display all POIs that contain food:
 - a. 64 Degrees
 - b. Art of the Espresso
 - c. Cafe Ventanas
 - d. Canyon Vista
 - e. Croutons
 - f. Earl's Place and Market
 - g. Food Co-op
 - h. Foodworx
 - i. Good's Place and Market
 - j. Home Plate
 - k. Muir Woods Coffee House
 - l. Oceanview Restaurant
 - m. Pines
 - n. Price Center
 - o. Roger's Place and Market
 - p. Roots
 - q. Sixty-Four North
 - r. Taco Villa
 - s. The Bistro
 - t. The Village Market

Alternate Workflow

1. (Directly filter destinations while searching for a path.)
 - a. The user shall select **Food** from the **Limit Locations** dropdown.
 - b. The user shall type "Ca" in the **Destination** form field.
 - c. The system shall list Canyon Vista and Cafe Ventanas as the only autocomplete options.

Expected Result

1. The test passes when when the **Map** screen displays all the POIs listed under Workflow step 6.
2. The alternate test passes when the autocomplete options after typing in the first two letters of one of the POIs listed in Workflow step 6 contain only POIs that are listed under Workflow step 6.

Option

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TC 5.4 - Find Parking POIs

Description

This test case outlines the ability for the user to find Point of Interests (POIs) that are parking lots.

Actors

The phone user

Desired Outcome

The user knows what POIs are parking lots.

User Goal

The user wants to find POIs that are parking lots.

Dependent Test Cases

N/A

Requirements

SR 02 / SR 05

Priority

2

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to know which POIs that is a Parking Lot.

Workflow

1. The user shall swipe right from the left side of the screen.
2. The system shall display the navigation bar.
3. The user shall click the **Map** button
4. The system shall display the **Map** screen.
5. The user shall click the **Parking** option from the **Filter Locations** drop-down menu.
6. The system shall display all POIs that are parking lots:
 - a. Gilman Parking Structure
 - b. Hopkins Parking Structure
 - c. Muir Parking Lot
 - d. Pangea Parking Structure

Alternate Workflow

1. (Directly filter destinations while searching for a path.)
 - a. The user shall select **Parking** from the **Limit Locations** dropdown.
 - b. The user shall type “**Parking**” in the **Destination** form field
 - c. The system shall only display POIs related to parking as autocomplete options:
 - i. Gilman Parking Structure
 - ii. Hopkins Parking Structure
 - iii. Muir Parking Lot
 - iv. Pangea Parking Structure

Expected Result

1. The test passes when when the **Map** screen displays all the POIs listed under Workflow step 2.
2. The alternate test passes when the autocomplete options for the **Destination** field only displays POIs listed under Alternate Workflow 1 step c.

Option

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TC 5.5 - Find Recreation POIs

Description

This test case outlines the ability for the user to find Point of Interests (POIs) related to UCSD Recreation.

Actors

The phone user

Desired Outcome

The user knows what POIs are related to UCSD Recreation.

User Goal

The user wants to find POIs that are related to UCSD Recreation.

Dependent Test Cases

N/A

Requirements

SR 02 / SR 05

Priority

2

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to know which POIs that have Recreational Activities.

Workflow

1. The user shall swipe right from the left side of the screen.
2. The system shall display the navigation bar.
3. The user shall click the **Map** button
4. The system shall display the **Map** screen.
5. The user shall select **Recreation** from the **Filter Locations** drop-down menu.
6. The system shall display all POIs that are recreation buildings:
 - a. Main Gym
 - b. RIMAC
 - c. John Muir Field
 - d. Canyon View
 - e. Conrad Prebys Music Center

Alternate Workflow

1. (Directly filter destinations while searching for a path.)
 - a. The user shall select **Recreation** from the **Limit Locations** dropdown.
 - b. The user shall type “Ca” in the **Destination** form field.
 - c. The system shall list Canyon View as the only autocomplete option.

Expected Result

1. The test passes when when the **Map** screen displays all the POIs listed under Workflow step 2.
2. The alternate test passes when the autocomplete options after typing in the first two letters of one of the POIs listed in Workflow step 6 contain only POIs that are listed under Workflow step 6.

Option

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TC 5.6 - Find Residential POIs

Description

This test case outlines the ability for the user to find Point of Interests (POIs) that belong to UCSD living areas such as apartments or residential halls.

Actors

The phone user

Desired Outcome

The user knows which POIs belong to residential areas at UCSD.

User Goal

The user wants to find POIs that belong to residential areas at UCSD.

Dependent Test Cases

N/A

Requirements

SR 02 / SR 05

Priority

2

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to know which POIs are residential.

Workflow

1. The user shall swipe right from the left side of the screen.
2. The system shall display the navigation bar.
3. The user shall click the **Map** button
4. The system shall display the **Map** screen.
5. The user shall select **Residential Hall** from the **Filter Locations** drop-down menu.
6. The system shall display all residential POIs
 - a. Sixth College Apartments
 - b. Sixth College Residential Halls
 - c. Matthews Apartments
 - d. Warren Apartments
 - e. Warren Residential Halls
 - f. Revelle Residential Halls
 - g. Keeling Apartments
 - h. Muir Residential Halls
 - i. Tuolumne Apartments
 - j. Tamarack Apartments
 - k. Rec Gym
 - l. Marshall Residential Halls
 - m. ERC Residential Halls
 - n. Mesa Verde Hall
 - o. The Village

Alternate Workflow

1. (Directly filter destinations while searching for a path.)
 - a. The user shall select **Residential Hall** from the **Limit Locations** dropdown.
 - b. The user shall type “Hall” in the **Destination** form field.
 - c. The system shall only display residential POIs that contain “Hall” in its name as autocomplete options:
 - i. Sixth College Residential Halls
 - ii. Warren Residential Halls
 - iii. Revelle Residential Halls
 - iv. Muir Residential Halls
 - v. Marshall Residential Halls
 - vi. ERC Residential Halls

Expected Result

1. The test passes when the **Map** screen displays all the POIs listed under Workflow step 2.
2. The alternate test passes when the autocomplete options after typing in at least the first two letters of one of the POIs listed in Workflow step 6 contain only POIs that are listed under Workflow step 6.

Option

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TC 5.7 - Find Study Area POIs

Description

This test case outlines the ability for the user to find Point of Interests (POIs) that are study areas at UCSD.

Actors

The phone user

Desired Outcome

The user knows what POIs are study areas at UCSD.

User Goal

The user wants to find POIs that are study areas at UCSD.

Dependent Test Cases

N/A

Requirements

SR 02 / SR 05

Priority

2

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to know which POIs are good study spots.

Workflow

1. The user shall swipe right from the left side of the screen.
2. The system shall display the navigation bar.
3. The user shall click the **Map** button
4. The system shall display the **Map** screen.
5. The user shall select **Study Area** from the [Filter Locations](#) drop-down menu.
6. The system shall display all residential POIs
 - a. Geisel Library
 - b. CSE Building
 - c. Graduate Student Lounge
 - d. Biomedical Library

Alternate Workflow

1. (Directly filter destinations while searching for a path.)
 - a. The user shall select **Study Area** from the [Limit Locations](#) dropdown.
 - b. The user shall type “Ge” in the [Destination](#) form field.
 - c. The system shall list Geisel Library as autocomplete options.

Expected Result

1. The test passes when the **Map** screen displays all the POIs listed under Workflow step 2.
2. The alternate test passes when the autocomplete options after typing in the first two letters of one of the POIs listed in Workflow step 6 contain only POIs that are listed under Workflow step 6.

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TC 6.1 - Find Wheelchair-Friendly Paths

Description

This test case outlines the ability for a user to find a routes to their destination that are wheelchair-friendly.

Actors

The phone user

Desired Outcome

The user shall know the shortest calculated path between two POI that is accessible by wheelchair.

User Goal

The user wants to be able to find routes accessible by wheelchair.

Dependent Test Cases

TC 1 / TC 2

Requirements

SR 06

Priority

2

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to only find routes that are accessible for wheelchairs.

Workflow

1. The user shall check the **Wheelchair Accessibility** checkbox.
2. The system shall put a checkmark to the left of the **Wheelchair Accessibility** button.
3. The user shall enter “**Warren Lecture Hall**” in the **Current Location** field.
4. The user shall enter “**Geisel Library**” in the **Destination** field.
5. The user shall click the **Find Path** button.
6. The system shall display:

Warren Lecture Hall

--> **Warren Mall** -->

Geisel Library

Alternate Workflow

1. (After step 2, no path can be found)
 - a. The user shall enter “**Atkinson Hall**” in the **Current Location** field.
 - b. The user shall enter “**Hopkins Parking Structure**” in the **Destination** field.
 - c. The user shall click the **Find Path** button.
 - d. The system shall display an error message: “**Sorry, no path could be found.**”
2. (Exit wheelchair friendly mode)
 - a. (After step 2) The user shall click the **Wheelchair Accessibility** button.
 - b. The system shall remove the checkmark to the left of the **Wheelchair Accessibility** button.
 - c. The user shall enter “**Atkinson Hall**” in the **Current Location** field.
 - d. The user shall enter “**Hopkins Parking Structure**” in the **Destination** field.
 - e. The user shall click the **Find Path** button.
 - f. The system shall display:

Atkinson Hall

--> **Voigt Drive** -->

Hopkins Parking Structure

Expected Result

1. The test passes if when the system displays the expected output when the **Wheelchair Accessibility** checkbox is checked:

[Warren Lecture Hall](#)

[--> Warren Mall -->](#)

[Geisel Library](#)

2. The first alternate test passes when the system cannot display a path, and instead displays an error message: **[Sorry, no path could be found.](#)**
3. The second alternate test passes when the system successfully reverts to normal calculations, without filters and displays the expected output:

[Atkinson Hall](#)

[--> Voigt Drive -->](#)

[Hopkins Parking Structure](#)

Option

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TC 6.2 - Find Safe Paths

Description

This test case outlines the ability for a user to find a route to their destination that contain a safe path, which is defined as a path containing either a Blue Light emergency phone booth or is well-lit.

Actors

The phone user

Desired Outcome

The user shall know the shortest calculated path between two POI that is safe.

User Goal

The user wants to be able to find routes that is safe.

Dependent Test Cases

TC 1 / TC 2

Requirements

SR 06

Priority

2

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to only find routes that are considered safe.

Workflow

1. The user shall click on the **Safe Routes Only** button.
2. The system shall put a checkmark to the left of the **Safe Routes Only** button.
3. The user shall enter “**Price Center**” in the **Current Location** field.
4. The user shall enter “**Warren Lecture Hall**” in the **Destination** field.
5. The user shall click the **Find Path** button.
6. The system shall display:

Price Center

--> **Library Walk** -->

Geisel Library

--> **Warren Mall** -->

Warren Lecture Hall

Alternate Workflow

1. (After step 2, no path can be found)
 - a. The user shall enter “**Biomedical Library**” in the **Current Location** field.
 - b. The user shall enter “**York Hall**” in the **Destination** field.
 - c. The user shall click the **Find Path** button.
 - d. The system shall display an error message: “**Sorry, no path could be found.**”
2. (Exit safe route mode)
 - a. (After step 2) The user shall click the **Safe Routes Only** button.
 - b. The system shall remove the checkmark to the left of the **Safe Routes Only** button.
 - c. The user shall enter “**Biomedical Library**” in the **Current Location** field.
 - d. The user shall enter “**York Hall**” in the **Destination** field.
 - e. The user shall click the **Find Path** button.
 - f. The system shall display:

Biomedical Library

--> **Cross Gilman Drive** -->

York Hall

Expected Result

1. The test passes if when the system displays the expected output when the **Safe Route Only** checkbox is checked:

Price Center

--> Library Walk -->

Geisel Library

--> Warren Mall -->

Warren Lecture Hall

2. The first alternate test passes when the system cannot display a path, and instead displays an error message: **Sorry, no path could be found.**
3. The second alternate test passes when the system successfully reverts to normal calculations, without filters and displays the expected output:

Biomedical Library

--> Cross Gilman Drive -->

York Hall

Option

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TC 6.3 - Find Well-Lit Paths

Description

This test case outlines the ability for a user to find routes to their destination that have lights throughout the path and are, thus, well-lit.

Actors

The phone user

Desired Outcome

The user shall know the shortest calculated path between two POI that is well-lit.

User Goal

The user wants to find routes that are well-lit.

Dependent Test Cases

TC 1 / TC 2

Requirements

SR 06

Priority

2

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to be able to find routes that are well-lit.

Workflow

1. The user shall click on the **Well-lit Routes Only** button.
2. The system shall put a checkmark to the left of the **Well-lit Routes Only** button.
3. The user shall enter “**Center Hall**” in the **Current Location** field.
4. The user shall enter “**Price Center**” in the **Destination** field.
5. The user shall click the **Find Path** button.
6. The system shall display:

Center Hall

--> **Library Walk** -->

Bookstore

--> **Same Plaza** -->

Price Center

Alternate Workflows

1. (After step 2, no path can be found)
 - a. The user shall enter “**Biomedical Library**” in the **Current Location** field.
 - b. The user shall enter “**Meyer Hall**” in the **Destination** field.
 - c. The user shall click the **Find Path** button.
 - d. The system shall display an error message: “**Sorry, no path could be found.**”
2. (Exit well-lit mode)
 - a. The user shall click the **Well-lit Routes Only** button.
 - b. The system shall remove the checkmark to the left of the **Well-lit Routes Only** button.
 - c. The user shall enter “**Biomedical Library**” in the **Current Location** field.
 - d. The user shall enter “**Meyer Hall**” in the **Destination** field.
 - e. The user shall click the **Find Path** button.
 - f. The system shall display:

Biomedical Library

--> **Cross Gilman Drive** -->

Meyer Hall

Expected Result

1. The test passes if when the system displays the expected output when the **Well-lit Routes Only** checkbox is checked:

Center Hall

--> Library Walk -->

Book Store

--> Same Plaza -->

Price Center

2. The first alternate test passes when the system cannot display a path, and instead displays an error message: **Sorry, no path could be found.**
3. The second alternate test passes when the system successfully reverts to normal calculations, without filters and displays the expected output:

Biomedical Library

--> Cross Gilman Drive -->

Meyer Hall

Option

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TC 7 - Rate a POI

Description

This test case tests the ability for the user to rate a POI out of 5 stars.

Actors

The phone user

Desired Outcome

The user adds their rating on a chosen POI to the system.

User Goal

The user wants to give a chosen POI a rating out of 5 stars.

Dependent Test Cases

N/A

Requirements

SR 07

Priority

3

Status

Completed

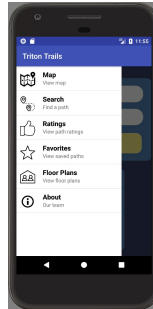
Pre-Conditions

The user is at the **HOME** screen.

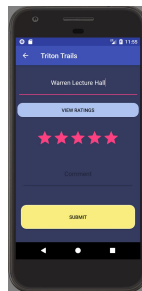
Trigger

Workflow

1. The user shall swipe right from the left edge of the screen to open the navigation bar.



2. The user shall click the **Ratings** button.
3. The system shall bring the user to the **Ratings** page.
4. The user shall input “**Warren Lecture Hall**” in the **Select POI** text field.
5. The user shall click the rightmost star.
6. The system shall highlight all the stars.



7. The user shall click the **SUBMIT** button.
8. The system shall save the user’s rating and display a toast message, **“Rating submitted successfully!”**.

Alternate Workflow

1. (After step 3) The POI entered by the user doesn’t exist:
 - a. The user shall input “**Warren**” in the **Select POI** text field.
 - b. The user shall click the rightmost star.
 - c. The user shall click the **SUBMIT** Button.
 - d. The system shall display a toast message, **“Please enter valid POI location”**.

Expected Result

1. The test passes if the toast message, [“Rating submitted successfully!”](#) is displayed and the user is brought back to the **HOME** screen.
2. The alternate workflow passes if the toast message, [“Please enter valid location”](#), appears and the user is brought back to the **HOME** screen.

Option

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TC 8 - Comment on a POI

Description

This test case tests the ability for the user to comment on a chosen POI.

Actors

The phone user

Desired Outcome

The user adds their comments on a chosen POI to the system.

User Goal

The user wants to write and post their comments on a chosen POI.

Dependent Test Cases

N/A

Requirements

SR 08

Priority

3

Status

Completed

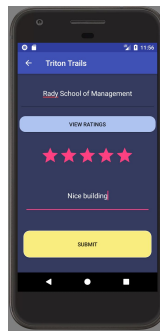
Pre-Conditions

The user is at the **HOME** screen.

Trigger

Workflow

1. The user shall swipe right from the left edge of the screen to open the navigation bar.
2. The user shall click the **Ratings** button.
3. The system shall bring the user to the **Ratings** page.
4. The user shall input “Rady School of Management” in the **Select POI** text field.
5. The user shall click the rightmost star.
6. The system shall highlight all five stars.
7. The user shall type “Nice building” into the **Comment** text field.



8. The user shall click the **SUBMIT** button.
9. The system shall save the user’s rating and display a toast message, “Rating submitted successfully!”.

Alternate Workflow

1. (After step 4) The user attempts to comment without rating
 - a. The user shall “Nice building” into the **Comment** text field.
 - b. The user shall click the **SUBMIT** button.
 - c. The system shall display a toast message, **“Please enter a rating.”**.
2. (After step 3) The POI entered by the user doesn’t exist:
 - a. The user shall input “Hawaii” in the **Select POI** text field.
 - b. The user shall click the rightmost star.
 - c. The user shall type “Nice building” into the **Comment** text field.
 - d. The user shall click the **SUBMIT** button.
 - e. The system shall display a toast message, **“Please enter valid POI location”**.

Expected Result

1. The test passes if the toast message, [“Rating submitted successfully!”](#), is displayed and the user is brought back to the **HOME** screen.
2. The first alternate workflow passes if the toast message, [“Please enter a rating.”](#) is displayed and the user is brought back to the **HOME** screen.
3. The second alternate workflow passes if the toast message, [“Please enter valid POI location”](#), is displayed and the user is brought back to the **HOME** screen.

Option

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TC 9 - View Ratings and Comments of a POI

Description

This test case tests the ability for the user to view the ratings and comments of a specific POI.

Actors

The phone user.

Desired Outcome

The user can view the ratings and comments of a POI.

User Goal

The user wants to see the ratings and comments of a POI.

Dependent Use Cases

TC 7 / TC 8

Requirements

SR 09

Priority

3

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user desires to view all the ratings and comments of a POI.

Workflow

1. The user shall swipe right from the left edge of the screen to open the navigation bar.
2. The user shall click the **Ratings** button.
3. The system shall bring the user to the **Ratings** page.
4. The user shall input “Warren Lecture Hall” in the **Select POI** text field.
5. The user shall click the **VIEW RATINGS** button.
6. The system shall calculate the average ratings of “Warren Lecture Hall”.
7. The system shall display the **results** page with the average ratings and all comments of “Warren Lecture Hall”.

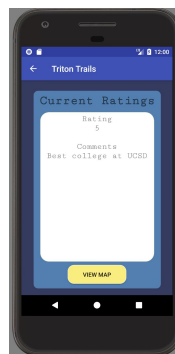
Alternate Workflow

1. (After step 3) There are no ratings on the POI:
 - a. The user shall input “Price Center” in the **Select POI** text field.
 - b. The user shall click the **VIEW RATINGS** button.
 - c. The system shall display the **results** page which displays the text, “No ratings yet!”

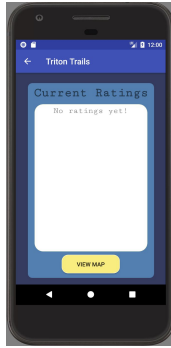
Expected Result

This test case passes when user sees the average rating and all comments, if any, in the **current ratings** page.

1. A POI has ratings already added (the average of all previous ratings and all comments are displayed):



2. A POI has no ratings added yet (alternate workflow):



Option

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TC 10 - View About Page

Description

This test case outlines the ability for the user to learn more about Triton Trails.

Actors

The phone user

Desired Outcome

The user sees the version history, list of developers and the link to Github for Triton Trails.

User Goal

The user wants to know more information about Triton Trails.

Dependent Test Cases

N/A

Requirements

SR 10

Priority

3

Status

Completed

Pre-Conditions

The user is at the **HOME** screen.

Trigger

The user wants to know more information about Triton Trails.

Workflow

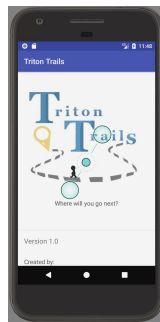
1. The user shall swipe right from the left edge of the screen to open the navigation bar.
2. The user shall click on the **About** button.
3. The system shall display the **About** page with information on Triton Trails.

Alternate Workflow

N/A

Expected Result

This test case passes when user sees the **About** page that shows the logo, version, team member names, and option to fork the project on GitHub.



Option

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