

## Test Plan and Report

User Story	Test	DoD: Acceptance + Integrated
As a user, I want to search through all available UCSC classes for the current quarter so that I can find classes and add them to my personal schedule.	<ul style="list-style-type: none"> <li>Scenario: User opens search screen               <ol style="list-style-type: none"> <li>Start app</li> <li>Navigate to search</li> <li>A scrollable list of courses for the current quarter should appear, sorted</li> </ol> </li> <li>Scenario: User begins typing in the search bar               <ol style="list-style-type: none"> <li>Click search bar</li> <li>Start typing</li> <li>List of courses should filter as the user types</li> </ol> </li> </ul>	When the user navigates to the search screen, they should be able to scroll through a list of available courses, filter courses via the search bar, and add courses to their account by clicking the add button
As a user, I want to see a calendar with all of my classes scheduled so I can visualize when my classes are.	<ul style="list-style-type: none"> <li>Scenario: User has already added their classes to their profile               <ol style="list-style-type: none"> <li>Start App</li> <li>Navigate to Schedule Screen</li> <li>All of the user's classes are displayed in the calendar as dots,</li> <li>Click on a date to look at all the classes scheduled on that day</li> </ol> </li> </ul>	The calendar should accurately reflect all of the courses the user is enrolled in by displaying dots in the calendar at class days. Further detailed information about the particular course such as the class's name, timing, and location should be displayed when a particular date is selected
As a user, I want to see all the classes I selected appear on the map so that I can easily find individual classrooms.	<ul style="list-style-type: none"> <li>Scenario: User has added classes to their profile.               <ol style="list-style-type: none"> <li>Start app</li> <li>Navigate to map</li> <li>Check that course markers exist for every added class with known locations</li> </ol> </li> <li>Scenario: User has no courses               <ol style="list-style-type: none"> <li>Start app</li> <li>Navigate to map</li> <li>Check that the map is empty of course markers</li> </ol> </li> </ul>	When the user navigates to the map screen, they should see all of their personal courses appear as a red marker on the map. When they click on a marker they should be able to see which class that marker corresponds to.
As a user, I want to see my location on the map so I know where I am on campus.	<ul style="list-style-type: none"> <li>Scenario: Location marker tracks user movement               <ol style="list-style-type: none"> <li>Start app</li> <li>Navigate to map</li> <li>If user is not on campus, click MyLocation icon                   <ul style="list-style-type: none"> <li>Map should animate to user location</li> </ul> </li> <li>If user is on campus already, the user should see a blue location icon</li> <li>Walk around                   <ul style="list-style-type: none"> <li>The icon should move on the map</li> </ul> </li> </ol> </li> <li>Scenario: User hasn't enabled location permissions               <ol style="list-style-type: none"> <li>Start app</li> <li>Request to enable permissions should pop up</li> <li>Sub-Scenario: User denies permissions                   <ul style="list-style-type: none"> <li>User should see message stating that</li> </ul> </li> </ol> </li> </ul>	<p>When the user navigates to the map screen for the first time, they should be prompted to accept location permissions.</p> <p>If they refuse, they should not see the map and be presented with the option to launch their settings instead.</p> <p>If they accept, they should see a map with a blue icon representing their current location. They should be able to click an icon that animates to their location as well.</p>

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	<p>permissions are required in place of the map. A button to navigate to device settings appears.</p> <p>4. Sub-Scenario: User accepts permissions</p>	
As a user, I want to see a route from my current location so I can know how to get somewhere easily.	<ul style="list-style-type: none"> <li>Scenario: User has wifi access and attempts to navigate from a location with a possible route.               <ol style="list-style-type: none"> <li>Set emulator location to within 350 meters of an OSM road or path</li> <li>Start app</li> <li>Navigate to map</li> <li>Click course marker</li> <li>Select "Navigate"                   <ul style="list-style-type: none"> <li>User should see "Route Found!" snackbar alert after a few moments, as well as a red walking path from their position to the marker</li> </ul> </li> </ol> </li> <li>Scenario: User has cached app data but no wifi access and attempts to navigate.               <ol style="list-style-type: none"> <li>Set emulator location to within 350 meters of an OSM road or path</li> <li>Turn on airplane mode w/ cached app data</li> <li>Start app</li> <li>Navigate to map</li> <li>Click course marker</li> <li>Select "Navigate"                   <ul style="list-style-type: none"> <li>User should see a snackbar alert indicating that they could not connect to the routing service, and no route should be drawn</li> </ul> </li> </ol> </li> <li>Scenario: User has wifi access and attempts to navigate, but the routing service encounters an error and is unable to find a viable route.               <ol style="list-style-type: none"> <li>Set emulator location over 350 meters from a known an OSM road or path, and/or set location over 2000 miles away from course waypoints</li> <li>Start app</li> <li>Navigate to map</li> <li>Click course marker</li> <li>Select "Navigate"                   <ul style="list-style-type: none"> <li>User should see a snackbar alert indicating that the routing service has encountered an error, and no route should be drawn</li> </ul> </li> </ol> </li> </ul>	Marker should have a navigation button when selected, and the user should be able to create a walking path on the map to follow. If the path cannot be created, they should be notified.
As a user, I want	<ul style="list-style-type: none"> <li>Scenario: User has already added their classes to their</li> </ul>	The user should get a notification

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to be notified when it's time for class so I don't forget.	<p>profile</p> <ol style="list-style-type: none"> <li>1. Start the app</li> <li>2. Navigate to the Schedule Screen</li> <li>3. The notifications are scheduled and should pop up 20 minutes before the class.</li> <li>4. Click on the notification when it pops up to be redirected to the app</li> </ol> <ul style="list-style-type: none"> <li>• Scenario: User has not enabled notifications permission               <ol style="list-style-type: none"> <li>1. Start the app</li> <li>2. Navigate to the schedule Screen</li> <li>3. Request to enable notifications should pop up                   <ul style="list-style-type: none"> <li>- Press enable</li> </ul> </li> <li>4. The notifications are scheduled and should pop up 20 minutes before the class.</li> <li>5. Click on the notification when it pops up to be redirected to the app</li> </ol> </li> </ul>	reminder 20 minutes before for all the courses they are enrolled in, when the user clicks on the notification, the user is redirected to the app where they can see details of their upcoming classes in the schedule screen.
As a user, I want to use the app before signing in so I can start scheduling immediately and have a chance to experience the app before deciding whether I want to make an account. If I do make an account, I want whatever I did anonymously to transfer so that I do not have to redo selecting classes.	<ul style="list-style-type: none"> <li>• Scenario: User opens the app for the first time               <ol style="list-style-type: none"> <li>1. Open the app</li> <li>2. Navigate to the search screen and add courses</li> <li>3. The database will add courses to their anonymous profile</li> <li>4. Courses will be saved between sessions on that device</li> </ol> </li> <li>• Scenario: User decides to sign up for an account               <ol style="list-style-type: none"> <li>1. From the home screen with courses added to anonymous account, sign up through the settings wheel</li> <li>2. The database will replace the anonymous user with the newly created credentials</li> <li>3. The app can function properly with the user's data across different devices.</li> </ol> </li> </ul>	Every user that opens the app should be assigned an anonymous account so that they can behave as a regular user without needing to sign up. Once they navigate to the sign up screen and create an account, their data should be linked so that they don't have to redo any work they had done while anonymous.
As a user, I want to easily remove courses from my app schedule so I can adapt to changes in my	<ul style="list-style-type: none"> <li>• Scenario: User has courses to delete               <ol style="list-style-type: none"> <li>1. Start app</li> <li>2. Navigate to schedule</li> <li>3. Click the 'X' to delete course</li> <li>4. Make sure it no longer appears on all pages</li> <li>5. Make sure it no longer appears in firestore</li> </ol> </li> </ul>	When a user clicks a "delete" icon on a class on their homepage, this course should be removed from their account.

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UCSC schedule		