

System and Unit Test Template - CSE115 - ClassroomFinder 3/14/23

Our testing was primarily done manually, with a few script tests being written for the database. On the backend we wrote various API endpoints that queried data from the database which we then tested by validating the output with Postman. On the frontend, acceptance testing was done through scenarios. All possible inputs couldn't be tested, but was done for a random set of inputs from different equivalence classes. We also used eslint to test for code syntax standards. A testing suite was written in Python to send queries to the database and compare the selected database information with expected output.

User Stories:

- 1) [Sprints 1] I am a new student at UCSC and need to find my class building (which is often confusingly abbreviated in MyUCSC / the class schedule) so that I can get to my classes.
- 2) [Sprint 1] I am planning my schedule for the next quarter and need to know how long it will take to go from one lecture to the next so that I won't come too late to my classes.
- 3) [Sprint 2] I have forgotten in which classroom my lecture will be in, but I do remember the name of my class. I need help to look up which classroom I should go to (without having to use the class search)
- 4) [Sprint 3] I am a student at UCSC who wants to look up where in the building my classroom is, as I know which building my classroom is in but can't find a floor plan or signs nearby.
- 5) [Sprint 4] "As a student, I want to be able to view on my calendar when my classes are"

Sprint 1:

Scenario 1: (covers story 1)

- Start ClassroomFinder app
- Select the room tab (should be default)
- Type in the building
 - Enter: Jack Baskin Engineering
 - A dropdown of results should appear as the user types the input
 - Select: Jack Baskin Engineering Building
- Search for the class by hitting the search arrow button or enter key
- The user should see a marker appear on the map below at Jack Baskin Engineering

Scenario 2: (covers story 2)

- Start Classroom Finder app
- Select the room tab (should be default)
- Type in the building
 - Enter: Social Sciences 2
 - A dropdown of results should appear as the user types the input
 - Select: Social Sciences 2 Building
- Search for the class by hitting the search arrow button or enter key
- The user should see an info tab popup from the footer.
- Select “Get directions on Google Maps” on the lefthand side of the popup.
- The user should see a new tab open to google maps with Social Sciences 2 loaded as the searched building and see it marked on the map.

Sprint 2:

Scenario 3: (covers story 3)

- Start ClassroomFinder app
- Select the class code tab
- Select winter2023 in the quarter select (should be default)
- Type in the class code into the search bar
 - Enter: CSE103
 - Select: CSE103-01 Computational Models
- Search for the class by hitting the search arrow button or enter key
- User should see a maker appear on the map below at Jack Baskin Engineering

Sprint 3:

Scenario 4: (covers stories 4 and 5)

- Start ClassroomFinder app
- Select the class code tab
- Select winter2023 in the quarter select (should be default)
- Type in the class code into the search bar
 - Enter: CSE103
 - Select: CSE103-01 Computational Models
- Search for the class by hitting the search arrow button or enter key
- User should see the floormap popup Jack Baskin Engineering Floor 1 with a pin on classroom 152.
- Select “Click here to download calendar event” on the lefthand side of the popup.
User should see a downloaded calendar event file containing the following info:
 - Title: CSE103-01 Computational Models
 - Location: J Baskin Engr 152
 - Time: 10:40 - 11:45
 - Instructor: Bailey,D.D.
 - Start: January 09, 2023

- End: March 18, 2023
- Event repeats every Monday, Wednesday, Friday from start date to end date

Sprint 4:

Scenario 5: (covers story 4 search by room)

- Start ClassroomFinder app
- Select the room tab (should be default)
- Type in the building and number
 - Enter: J Baskin Engineering
 - A dropdown of results should appear as the user types the input
 - Select: Jack Baskin Engineering Building 156
- Search for the class by hitting the search arrow button or enter key. User should see the floormap popup for Jack Baskin Engineering Floor 1 with a pin at classroom 156.