Test Plan and Report

Product name: Course Planner
Team name: FLOAT
Release name: 1.0.0 Beta
Release date: Dec 5, 2023
Revision number: 1
Revision date: Dec 4, 2023

User Stories

A. User story 1: As a user, I want to be able to drag and drop courses between quarters and the search section so I can easily organize my academic schedule.

B. User story 2: As a student, I want to search for courses by course number, department, and/number GE code so I can quickly find specific classes that meet my requirements.

C. User story 3: As a student, I want to check how many GEs the courses in my planner fulfill so I can ensure I'm meeting my graduation requirements.

D. User story 4: As a student, I want to create multiple course planners so I can explore different academic paths and options.

E. User story 5: As a student, I want to export my course planner to a PDF so I can easily share it or refer to it offline.

F. User story 6: As a user, I want to be able to login/create an account so I can save my planners.

G. User story 7: As a student, I want to see how many credits the courses in my planner fulfill so I can track my progress towards graduation.

H. User story 8: As a student, I want to see details about a selected course so I can better understand when it's offered, how many units it is, if there are any prerequisites, and if it fulfills a GE requirement.

I. User story 9: As a student, I want to add custom courses to my planner so I can include non-traditional or external classes in my planning.
J. User story 10: As a student, I want to add labels to courses in my planner so I can categorize them for better organization.
K. User story 11: As a student, I want to be able to select default planners for my major

Test Scenarios

Scenario 1: Drag and Drop (Pass)
1. Drag a course from the course list search into one of the quarters in the planner.
2. Drag a course from the quarter into another quarter in the planner.
3. Users should see the course displayed in the quarter they dropped it.

Scenario 2: Course Filtering by Department, Number and GE (Pass)
1. Select 'Department' component; Choose a Department to filter courses with.
2. Select 'Number' component; Type a Number to filter with.
3. Select 'GE' component; Choose a GE to filter with.
4. Users should see only courses that satisfy all three criteria.

Scenario 3: GE Verification Tool (Pass)
1. Drag classes to the planner.
2. Users should see a pie chart displaying fulfilled GEs in Blue.

Scenario 4: Create Planners (Pass)
1. Select the '+' icon next to the tab list.
2. Drag courses into the quarters of this new planner.
3. Users should only see the courses that were added to each planner, as well as the relevant graduation progress and ge verification statuses.

Scenario 5: Export Planner to PDF (Pass)
1. Create a planner.
2. Select 'Export Planner to PDF'.
3. Users should be able to print/download planner as a PDF.

Scenario 6: Login and Save Planner (Pass)
1. Select 'Login with UCSC account'; Select email affiliated with ucsc.
2. Users should see an icon with their initials.
3. Create a planner; Wait for the message 'Saving planner..'

4. Select user icon; Select 'Sign out'.
5. Select 'Login with UCSC account'; Log back in with the same email.
6. Users should see that their created planner was saved.

Scenario 7: Export Planner to PDF (Pass)
1. Drag courses to the planner.
2. Users should see a pie chart displaying the total number of credits in their planner.

Scenario 8: Course Info Model (Pass)
1. Click on a course in the course list search or planner.
2. Users should see a window with information pop up.

Scenario 9: Custom Courses (Pass)
1. Select the '+ Custom Course' component.
2. Type the desired name for the course.
3. Drag the custom course into the planner.

Scenario 10: Label Courses (Pass)
1. Drag a course into the planner; Click on the course
2. Hover cursor to the right of 'Labels:'; Select '+' icon
3. Check box of desired color(s)
4. Select pen icon to give label name; Type desired label name.
5. Hover cursor to the right of 'Cancel'; Select 'Save' icon
6. User should see the course displaying the desired label

Scenario 11a: Select Default Planners (Pass)
1. Login
2. Select catalog year and major
3. Select default planner and click 'next' button
4. Create a planner
5. User should see a planner with courses already created and being automatically saved

Scenario 11b: Select Default Planners (Pass)
1. Login
2. Load previously made planner
3. Click 'Edit Major' button
4. Fill out fields as before in scenario 11a and click 'save' to save changes
5. Create a planner

6. User should see a planner with courses already created and being automatically saved

Unit Tests

Location: ./__tests__/api/graphql/courses.test.ts
Test Results: All Tests Passed

Location: ./__tests__/service/planner.test.ts
Test Results: All Tests Passed