System and Unit Test Report

Product Name: Slug Academic Organizer
Date: 11/30/2018

System Test Scenarios:

I.   User Story 1 Sprint 1: As a student, I want to have access to different major requirements to help plan my future schedule.
      User Story 1 Sprint 2: As a student, I want to be able to see my major requirements so I can plan accordingly.
      User Story 1 Sprint 3: As a student, I want to be able to see my major requirements so I can plan accordingly.
      Scenario:
      1. Enter https://slug-academic-organizer.appspot.com in url;
      2. Click on the tab that says Major Requirements;
      3. User should see all of the major requirements of CS majors.
      4. If User chooses to log in, click the sign up/sign in button on landing page;
      5. Click on the tab that says Major Requirements;
      6. User should see all of the major requirements of CS majors;
      7. If User has fulfilled the requirement, the box containing the requirement will be shaded in blue.

II.   User Story 2 Sprint 1: As a student, I want to have access to the GE requirements to plan my future schedule.
      User Story 2 Sprint 2: As a student, I want to be able to see my GE requirements so I can plan accordingly.
      User Story 2 Sprint 3: As a student, I want to be able to search the requirements page to easily plan my classes.
      Scenario:
      1. Enter https://slug-academic-organizer.appspot.com in url;
      2. Click on the tab that says GE Requirements;
      3. User should see all of the GE requirement codes, titles, and credits.
      4. If User chooses to log in, click the sign up/sign in button on landing page;
      5. Click on the tab that says GE Requirements;
      6. User should see all of the GE requirement codes, titles, credits and whether they have fulfilled the requirement;
      7. If User has fulfilled the requirement, it will list the class that was used to meet the GE Requirement.

III. User Story 3 Sprint 1: As a student, I want to be able to create my own user account to save data.

User Story 3 Sprint 2: As a student, I want to be able to save my data so I can track my progress.

User Story 7 Sprint 3: As a student, I want to be able to have a secure log in so my data remains protected.

User Story 2 Sprint 4: As a student, I want to be able to intuitively sign up so that I can use the app's functions.

Scenario:

1. Enter https://slug-academic-organizer.appspot.com in url;
2. Click on the sign up/sign in button on the landing page;
3. User will be prompted to enter information; type
   - Username: <SammySlug>
   - Password: <password123>
   - Press Enter Key or Sign In button
4. If password is less than 3 characters or if the password does not have an uppercase character, a number or is shorter than 5 characters, error messages will appear to notify the user; Fields can also not be left blank;
5. User now has created their own account.

IV. User Story 4 Sprint 1: As a student, I want to be able to search the requirements page to easily plan my classes.

User Story 4 Sprint 2: As a student, I want to be able to search the requirements page to easily plan my classes.

Scenario:

1. Enter https://slug-academic-organizer.appspot.com in url;
2. Click on Class Logging Tab;
3. User can choose to search in Search bar; type
   - Search: <CMPS 115>
   - Results will be filtered
4. Users can also choose to filter results through using the refinement list; select the tab based on the category they want to filter; click on the filter which will be added to current refinement list; when they don't want to use the filter, they can either click the X next to the filter or clear all refinements; refinements will be filtered as a result
5. Users can also go through each page and search for classes
6. Users can click on each class to display class information: class id, class title, description, prerequisites, GE, instructor, days and times, room and meeting dates

V. User Story 5 Sprint 1: As a student I want to be able to log my classes to track my progress.

User Story 5 Sprint 2: As a student I want to be able to log my classes to track my progress.

User Story 8 Sprint 3: As a student I want to log my current classes to track my progress.
Scenario:
1. Enter https://slug-academic-organizer.appspot.com in url;
2. Log into the site
    - Username: <SammySlug>
    - Password: <password123>
    - Press Enter Key or Sign In button
3. Click on Class Logging Tab;
4. Users can also choose to filter results through using the refinement list; select the tab based on the category they want to filter; click on the filter which will be added to current refinement list; when they don't want to use the filter, they can either click the X next to the filter or clear all refinements; refinements will be filtered as a result
5. Press the "Add Class" button on the side of the class you wish to add;
6. The Class will appear on the side under the year and quarter with the grade;
7. Select the grade you earned for the course.

VI. User Story 3 Sprint 3: As a student, I want to be able to enter my grades to keep track of my GPA.
Scenario:
1. Enter https://slug-academic-organizer.appspot.com in url;
2. Log into the site
    - Username: <SammySlug>
    - Password: <password123>
    - Press Enter Key or Sign In button
3. Click on Grades Tab;
4. Choose whether option of either "quarterly" or "cumulative";
5. If user chose quarterly, choose the quarter you wish to calculate for gpa. Otherwise, the options are grayed out;
6. Enter the year of the quarter you with to calculate for gpa;
7. Click on the calculate button;
8. Based on the grades entered for the classes in class logging, program will calculate and display your gpa.

VII. User Story 4 Sprint 3: As a student, I want to be able to enter which classes I took pass/no pass so I won't exceed the 25% limit.
Scenario:
1. Enter https://slug-academic-organizer.appspot.com in url;
2. Log into the site
    - Username: <SammySlug>
    - Password: <password123>

- Press Enter Key or Sign In button
3. Click on Grades Tab;
4. Press the Calculate button under Pass/No Pass
5. If user has no classes that have the grading of pass/no pass then nothing will calculate;
6. Otherwise, the pass/no pass percentage will be displayed.

VIII. User Story 5 Sprint 3: As a student, I want to be able to see my class schedule so I can attend class on time.
Scenario
1. Enter https://slug-academic-organizer.appspot.com in url;
2. Log into the site
   - Username: <SammySlug>
   - Password: <password123>
   - Press Enter Key or Sign In button
3. Click on Calendar Tab;
4. The Calendar will show the schedule that has been added in Class Logging;
5. User can click arrow buttons to change months and click the Today button to return to today;
6. User can also click the day, week or month button to change how the calendar looks.

IX. User Story 1 Sprint 4: As a student, I want to see a preview of the website before signing up so I know what to expect when using the app.
Scenario
1. Enter https://slug-academic-organizer.appspot.com in url;
2. Landing page shows demo of the website;
3. Click on sign up button to create an account.

X. User Story 5 Sprint 4: As a student, I want to be able to access and change my account information.
Scenario
4. Enter https://slug-academic-organizer.appspot.com in url;
5. Log into the site
   - Username: <SammySlug>
   - Password: <password123>
   - Press Enter Key or Sign In button
6. Click on Account Tab;
7. User can choose to logout or change password;
8. User must enter their password two times and make sure they match
   - Current Password: <password321>
   - New Password: <password321>

9. Press Change Password button;
10. Password has now been changed.

XI.   User Story 5 Sprint 4: As a student, I want to be able to easily navigate through the site.
    1. User can click on top tabs to change between pages.

Unit Testing:

I.   Class Logging Page:
    A. To check if the schedule works properly:
        1. Filter classes by each quarter option
        2. Observe that the data appears properly on the side planner ie. fall 2018 class displays under 2018 year tab, under Fall
        3. Reload the page to ensure that it was stored properly in the database
    B. To check that changing grades works properly:
        1. Change the grade on the logged class
        2. Ensure that the data change reflects in the database
    C. To check that class deletion works properly:
        1. Delete a class from the class log
        2. Refresh the page to ensure the change is reflected in the database

II.   Grades Page:
    A. To check if the GPA calculator works properly:
        1. Select cumulative:
            a) Log classes into the logging page for multiple quarters and years, and give each of them each possible grade option
            b) Click calculate on the GPA calculator
            c) Ensure that the GPA is correct
        2. Select quarterly:
            a) Log classes into multiple quarters, and give each of them each possible grade option
            b) Click calculate for each quarter
            c) Ensure that each GPA is correct
    B. To check if the PNP calculator works properly:
        1. Log classes into multiple quarters and years, and give each of them each possible grade option
        2. Click calculate on the PNP calculator
        3. Ensure the PNP percentage is correct

III.   Major Requirements Page:
    A. Go through each requirement and log it in the Class Logging page
    B. Ensure that each requirement is highlighted when you add it
    C. For Electives:

        1. Make sure that any CMPM or MATH electives display on the Additional Electives boxes
        2. But also ensure that once the CMPS electives list is filled, any additional CMPS electives will fill the Additional Electives boxes

IV.   GE Requirements Page:
    A. Log a class that fulfils each GE
    B. Ensure that each GE requirement is highlighted when you add it

V.   Calendar Page:
    A. Log a class for each possible time and meeting day
    B. Ensure that it displays properly in the calendar

VI.   Account Page:
    A. Ensure that you can not sign up with a username less than three characters long
    B. Ensure that you cannot sign up without a password that contains at least 5 characters, with 1 number, and 1 uppercase letter
    C. Ensure that when you change your password, it is reflected properly in the database