<div align="center">**Sprint 2 Plan**</div>

CSCE 120 Autograder Frontend Team

Scrum Master: Mainak Sarkar
Product Owner: Riddhi Ghate

Customer Meeting

Meeting: Every Monday from 12:00pm-1:00pm, Peterson 322/Zoom

Summary

The main customer need is a usable, accessible frontend for the CSCE 120 autograding system that allows for easier creation and maintenance of assignments and their constituent tests. This application will streamline the process of creating autograded assignments by providing a GUI to generate new assignment GitHub repositories and interactively create new tests. The admin(s) of CSCE 120's github organization will have the ability to add new users and manage permissions, controlling who can view and edit tests within each assignment.

Stakeholders include CSCE 120 course instructors and teaching assistants, who need a simpler and more automated way to create, modify, and view autograded assignments, as well as students, who benefit from having high-quality tests for their assignments. The ability to run test cases independently within the interface will ensure that tests are behaving as expected and allow for rapid assignment development.

Icebox

Story Number	Feature name As a [kind of stakeholder] So that [I can achieve some goal] I want to [do some task]
1	Feature: Search functionality on the assignments page As an instructor (or TA) So that I can search for a specific assignment to modify I want to access a search bar that filters the display of assignments on the page based on my search query
2	Feature: Update Assignments view As a CSCE 120 GitHub organization member So that I can more easily find assignments I want to see assignments displayed in a table that can be sorted by repo name, creation date, or update date
3	Feature: Adding new deploy keys As an instructor So that I can ensure secure access to the assignment repositories, I want to have the ability to add new deploy keys for assignment repositories in the CSCE 120 organization.
4	Feature: Logout System As an instructor (or TA)

	So that I can ensure my session is closed and my work is protected when I have completed my tasks, I want to securely log out of the system
5	Feature: Navigation Bar As an instructor (or TA) So that I can easily navigate to different pages of the app (course dashboard, logout, manage users, app name), I want to have a navigation bar at the top of the view that lets me browse quickly to the other pages of the application
6	Feature: Test Case Groupings Model As a CSCE 120 GitHub organization member, So that I can see which tests are related, I want to the app to contain groupings of test cases
7	Feature: Test Case Groupings CRUD As a CSCE 120 GitHub organization member, So that I can interact with test case groupings I want to be able to create, view, update, & delete groupings of related test cases
8	Feature: Move Tests b/t Groupings As a CSCE 120 GitHub organization member, So that I can change which grouping a test is in, I want to be able to drag and drop tests from one grouping to another
9	Feature: Manage user access for each assignment As an instructor So that I can manage a user's permissions for each assignment I want to add a read, write, and no access privilege checkbox for each assignment under a user.
10	Feature: Manage assignment-wise access for each user As an instructor So that I can manage all users' permissions within an assignment I want to add a read, write, and no access privilege checkbox for each user under an assignment.
11	Feature: Add GitHub user to organization As an administrator So that I can give new instructors and TAs access to the app I want to be able to add new GitHub users to the organization through the app
12	Feature: Remove GitHub user from organization As an administrator So that I can revoke instructors' and TAs' access to the app I want to be able to remove GitHub users from the organization through the app
13	Feature: Pull remote changes As a CSCE 120 GitHub organization member So that I can see modifications made (from outside of the app) to the remote repository I want the app to pull changes from the remote repository
14	Feature: Parse tests coming in from remote As a CSCE 120 GitHub organization member So that the app's database is updated with outside changes I want the app to parse outside code.tests file changes
15	Feature: Consistent button styling and clear labels As a CSCE 120 GitHub organization member

	So that I understand how to navigate about the app I want to see buttons, rather than links, with intuitive labels
16	Feature: Dynamic test block As a CSCE 120 GitHub organization member So that I can more easily create tests of different types I want to be prompted with the correct fields for the selected test type
17	Feature: Test refactoring As a developer So that I can more effectively test my code I want to have more flexible and usable Cucumber step definitions to mock the behavior of third-party services that the app communicates with
18	Feature: Add administrator role As the CSCE 120 course coordinator So that I can have a higher level of permission in the app I want to have an "administrator" role

Sprint Backlog

- **Sprint Goal**:

Sprint 2 will focus on enhancing usability and creating a more intuitive user interface on top of the core functionality established in Sprint 1. This focus is driven by the client's desire for an intuitive and accessible application.

- Table of Tasks and Assigned Developers for Sprint-2:

Story Number	Tasks	Developers	Time Estimates	Points
1	● Creating backend functionality to search for assignments by repo name ● Create search bar and "Search" button elements in Assignments view	Saksham, Mainak	2 days	2
2	● Create a tabular display for assignments ● Implement sorting of assignments (in frontend) by repo name, created-on date, last-updated date	Riddhi, Ryan	1 day	1
4	● Link logout route to "Logout" button in nav bar ● Redirect user to "Login" page	Hasan, Saksham	1 day	1

5	• Logout button • Manage Users button (for instructor) • View Assignments	Hasan, Saksham	1 day	1
6	• Create `TestGroup` model • Add `has_many :through` association in `Assignment` model for `Test` through `TestGroup` • Add `has_many TestGroup` association in `Assignment` • Add `has_many Test` association in `TestGroup` • Add necessary `belongs_to` associations • Remove old, unused associations • Update routes	Max, Yao	1 day	1
7	• Generate `TestGroup` scaffold • Modify Assignment edit view to include the groupings • Hook up `Test` functionality to be compatible with new view • Add field to select grouping	Max, Yao	2 days	2
9	• Changing status to no-access on the remote repository if instructor sets "no-access" for an app user • UI changes in the "Manage Users" and "View Assignments" page.	Mainak, Riddhi	1 day	2
10	• Add an assignment permissions button on the "View Assignments Page" • Redirect the button to a page that displays the list of users. • Add checkboxes to update the user roles for that assignment	Mainak, Riddhi	2 days	2
15	• Update all links with buttons • Modify all button labels to clearly convey function	Ryan	1 day	1
16	• Create all necessary partials • Implement logic to render specific partial depending on test type	Ryan, Max, Yao	2 days	2

Links
- GitHub
- [Slack Invite](Slack%20Invite)
- [GitHub Projects](GitHub%20Projects)

- [Heroku Deployment](#)