

Sprint 4 Plan

CSCE 120 Autograder Frontend Team

Scrum Master: Ryan Gonzalez

Product Owner: Mainak Sarkar

Developers: Max Smith, Md Hasan Al Banna, Riddhi Ghate, Saksham Mehta, Qinyao Hou

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: 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.
2	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 (Concatenate grouping & test number to produce test case numbers in code . tests)
3	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

4	<p>Feature: Remove GitHub user from organization</p> <p>As an administrator</p> <p>So that I can revoke instructors' and TAs' access to the app</p> <p>I want to be able to remove GitHub users from the organization through the app</p>
5	<p>Feature: Pull remote changes</p> <p>As a CSCE 120 GitHub organization member</p> <p>So that I can see modifications made (from outside of the app) to the remote repository</p> <p>I want the app to pull changes from the remote repository</p>
6	<p>Feature: Parse tests coming in from remote</p> <p>As a CSCE 120 GitHub organization member</p> <p>So that the app's database is updated with outside changes</p> <p>I want the app to parse outside code.tests file changes</p>
7	<p>Feature: Test refactoring</p> <p>As a developer</p> <p>So that I can more effectively test my code</p> <p>I want to have more flexible and usable Cucumber step definitions to mock the behavior of third-party services that the app communicates with</p>
8	<p>Feature: Add administrator role</p> <p>As the CSCE 120 course coordinator</p> <p>So that I can have a higher level of permission in the app</p> <p>I want to have an "administrator" role</p>
9	<p>Feature: File Selection</p> <p>As a CSCE 120 organization member</p> <p>So that I can select the files for a test</p> <p>I want to see a dropdown of nested files with a checkbox</p>
10	<p>Feature: Select files for Includes attribute</p> <p>As a CSCE 120 GitHub organization member</p> <p>So that I can select files for Includes attribute when dealing with test cases</p> <p>I want to select files from a file-tree dropdown for the Includes attribute</p>
11	<p>Feature: Test Editor UI Updates</p> <p>As a CSCE 120 organization member</p> <p>So that I can more intuitively interact with the test editor</p> <p>I want to see more accessible styling, more clear labeling, and confirmation for permanent actions</p>
12	<p>Feature: Update Assignment schema to include approved_files attribute</p> <p>As a CSCE 120 GitHub organization member</p> <p>So that I can input approved files when creating an assignment</p> <p>I want the database schema to contain an attribute for this</p>
13	<p>Feature: Approved Files UI</p> <p>As a CSCE 120 GitHub organization member</p> <p>So that I can input approved files when creating an assignment and invoke them in tests</p> <p>I want the necessary user interfaces to do so</p>
14	<p>Feature: "Create Test" should be grayed out until minimum necessary information is entered</p> <p>As a CSCE 120 GitHub organization member</p> <p>So that I do not see the create button active while creating a test</p>

	I want the 'Create Test' button to be grayed until the required fields are filled and the required fields should have an asterisk next to them.
15	Feature: Live update for points As a CSCE 120 GitHub organization member So that I can update the points for a test case live without having to explicitly save it I want a single points editor text field
16	Feature: Login Page Changes As a CSCE 120 GitHub organization member So that I can have ease of use I want to be automatically be taken past the login page if I am already logged in
17	Feature: Set <code>files_to_submit</code> in <code>run_autograder</code> script As a CSCE 120 GitHub organization member So that I can control which files students can submit I want the <code>run_autograder</code> script to be updated with these upon assignment creation
18	Feature: General UI changes As a CSCE 120 GitHub organization member So that I can navigate easily, complete tasks efficiently I want the user interface to be intuitive, aesthetically pleasing
19	Feature: User Can Edit <code>approved_files</code> As a CSCE 120 GitHub organization member So that I can manage the <code>approved_files</code> I want to be able to edit the <code>approved_files</code> allowed in the assignment
20	Feature: Approved Include Textbox As a CSCE 120 GitHub organization member So that I can only put one entry per a line I want to be limited and expected to put one entry per a line
21	Feature: Radio button for single-choice file selection As a CSE 120 organization member So that I can select the particular file I want to upload for single-choice fields I want the file-selection-tree dropdown to have a radio button beside each file name for selection

Sprint Backlog

- **Sprint Goal:**

The goal of Sprint 4 is primarily to make our application adhere to common UI conventions at the request of the client. We will also use this sprint to add in missing functionality related to assignment creation that was brought to our attention by the client.

- Table of Tasks and Assigned Developers for Sprint 4:

Story Number	Tasks	Developers	Time Estimates	Points
21	<ul style="list-style-type: none"> Radio button for single-choice file selection 	Mainak, Hasan	1 day	1
15	<ul style="list-style-type: none"> Remove the existing edit points update form Add a single text field for updating points Update the total points on click 	Riddhi, Mainak, Qinyao	3 days	3
10	<ul style="list-style-type: none"> Includes field should be replaced with checkbox file selection <ul style="list-style-type: none"> Change <code>includes</code> attribute in <code>Test</code> model to a list of strings (schema change) Modify <code>code.tests</code> generation to support new schema change Update tests to remain compatible with change Potential minor change in the <code>Test</code> controller 	Qinyao, Mainak	2 days	2
14	<ul style="list-style-type: none"> "Create Test" should be grayed out until minimum necessary information is entered Asterisks should be next to all required fields 	Hasan, Saksham	2 days	2
12	<ul style="list-style-type: none"> Update <code>Assignment</code> schema to include <code>approved_files</code> attribute 	Max	1 day	1
13	<ul style="list-style-type: none"> Add field to set <code>approved_files</code> during assignment creation Replace <code>target</code> field with dropdown of <code>approved_files</code> 	Max	1 day	1
17	<ul style="list-style-type: none"> Set <code>files_to_submit</code> in <code>run_autograder</code> script 	Max, Riddhi	2 day	2

2	<ul style="list-style-type: none"> Implement drag and drop between groups 	Qinyao	1 day	1
11	<ul style="list-style-type: none"> Test Editor UI Updates <ul style="list-style-type: none"> Test case deletion should require confirmation Overlapping to the right column (UI), wider landscape versus a portrait type Add units to Timeout field 	Ryan	1 day	1
18	<ul style="list-style-type: none"> General UI changes 	Hasan, Saksham	1 day	1
16	<ul style="list-style-type: none"> Login Changes to take you dashboard rather than prompting you to login again 	Ryan	1 day	1
9	File Selection Partial <ul style="list-style-type: none"> Get GitHub file tree Produce nested, scrollable checkbox dropdown Array of file paths is produced from selected files 	Mainak, Riddhi	2 days	2

Links

- [GitHub](#)
- [Slack Invite](#)
- [GitHub Projects](#)
- [Heroku Deployment](#)