

Sprint 2 Retrospective Report

CSCE 120 Autograder Frontend

Scrum Master: Mainak Sarkar

Product Owner: Riddhi Ghate

Links

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

Dates of the Sprint

Planning: 4 October to 11 October

Development: 11 October to 18 October

Information about team and member contributions

Members	Assigned Tasks	Points SUM(story_pts/num_devs)	Percentage of Development
Mainak Sarkar (Scrum Master)	Create a Search-Bar on the Assignment Index Page, Update the user-wise Access Control Management System, Create the Assignment-wise Access Control Management System	$2/2 + 2/2 + 2/2 = 3$	20%
Riddhi Ghate (Product Owner)	Update assignments view, Update the user-wise Access Control Management System, Create the Assignment-wise Access Control Management System	$1/2 + 2/2 + 2/2 = 2.5$	16.67%
Max Smith	Add TestGrouping Model, TestGroupings CRUD, Fix production environment	$1/1 + 2/2 + 2/1 = 4$	26.67%
Md Hasan Al Banna	Creation of Navbar, Logout System	$1/2 + 1/2 = 1$	6.67%

Qinyao Hou	TestGroupings CRUD	$2/2 = 1$	6.67%
Ryan Gonzalez	Consistent button styling, update assignments view	$1/2 + 1 = 1.5$	10%
Saksham Mehta	Create a Search-Bar on the Assignment Index Page, Creation of Navbar, Logout System	$2/2 + 1/2 + 1/2 = 2$	13.33%

Sprint Goal:

The objective of Sprint 2 was to enhance usability and create 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.

Sprint Achievements and Summary of Stories implemented in this Sprint:

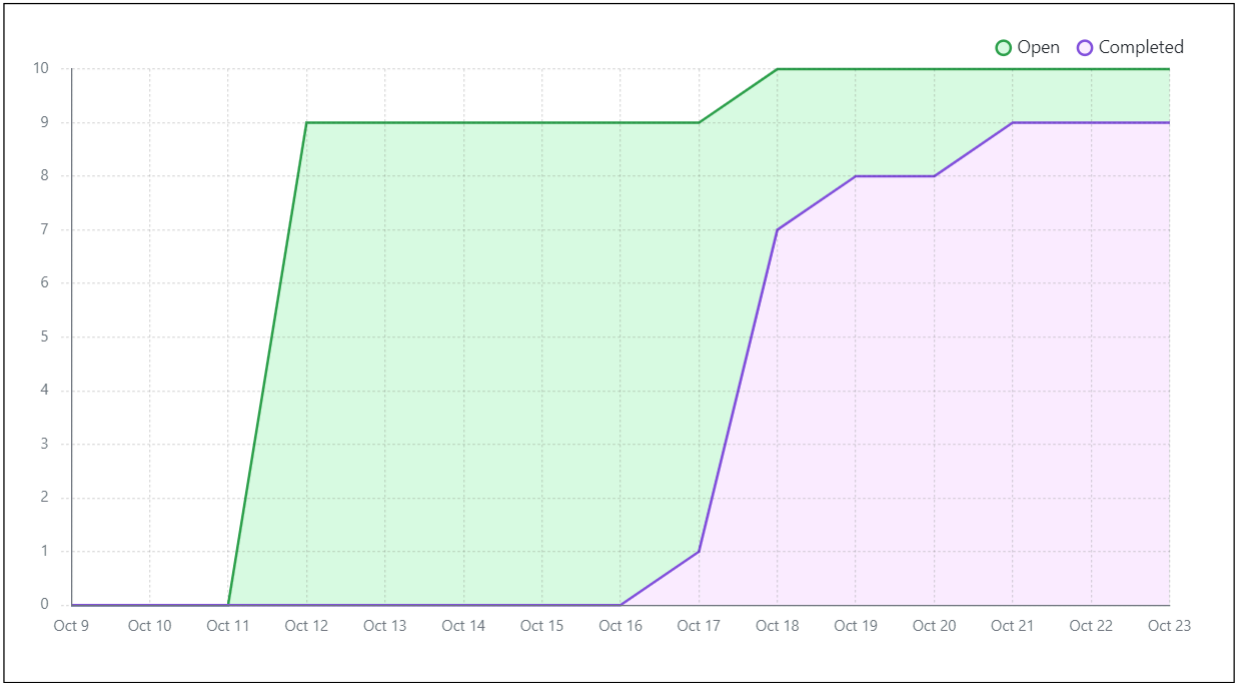
Story Number	Story	Completion
1	Search functionality on the assignments page	Completed
2	Update Assignments view	Completed
4	Logout System	Completed
5	Navigation Bar	Completed
6	Test Case Groupings Model	Completed
7	Test Case Groupings CRUD	Completed
9	Manage user access for each assignment	Completed
10	Manage assignment-wise access for each user	Completed
15	Consistent button styling and clear labels	Completed
16	Dynamic test block	(Pushed to Next Sprint)

Sprint backlog items and status:

Story Number	Task	Explanation
1	<ul style="list-style-type: none">• Creating backend functionality to search for assignments by repo name• Create search bar and “Search” button elements in Assignments view	Completed
2	<ul style="list-style-type: none">• Create a tabular display for assignments• Implement sorting of assignments (in frontend) by repo name, created-on date, last-updated date	Completed
4	<ul style="list-style-type: none">• Link logout route to “Logout” button in nav bar• Redirect user to “Login” page	Completed
5	Create the Navigation bar, which contains the following: <ul style="list-style-type: none">• Logout button• Manage Users button (for instructor)• View Assignments	Completed
6	<ul style="list-style-type: none">• Create <code>TestGroup</code> model• Add <code>has_many :through</code> association in <code>Assignment</code> model for <code>Test</code> through <code>TestGroup</code>• Add <code>has_many TestGroup</code> association in <code>Assignment</code>• Add <code>has_many Test</code> association in <code>TestGroup</code>• Add necessary <code>belongs_to</code> associations• Remove old, unused associations	Completed
7	<ul style="list-style-type: none">• Generate <code>TestGroup</code> scaffold• Modify Assignment edit view to include the groupings• Hook up <code>Test</code> functionality to be compatible with new view• Add field to select grouping• Update routes	Completed
9	<ul style="list-style-type: none">• 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	Completed

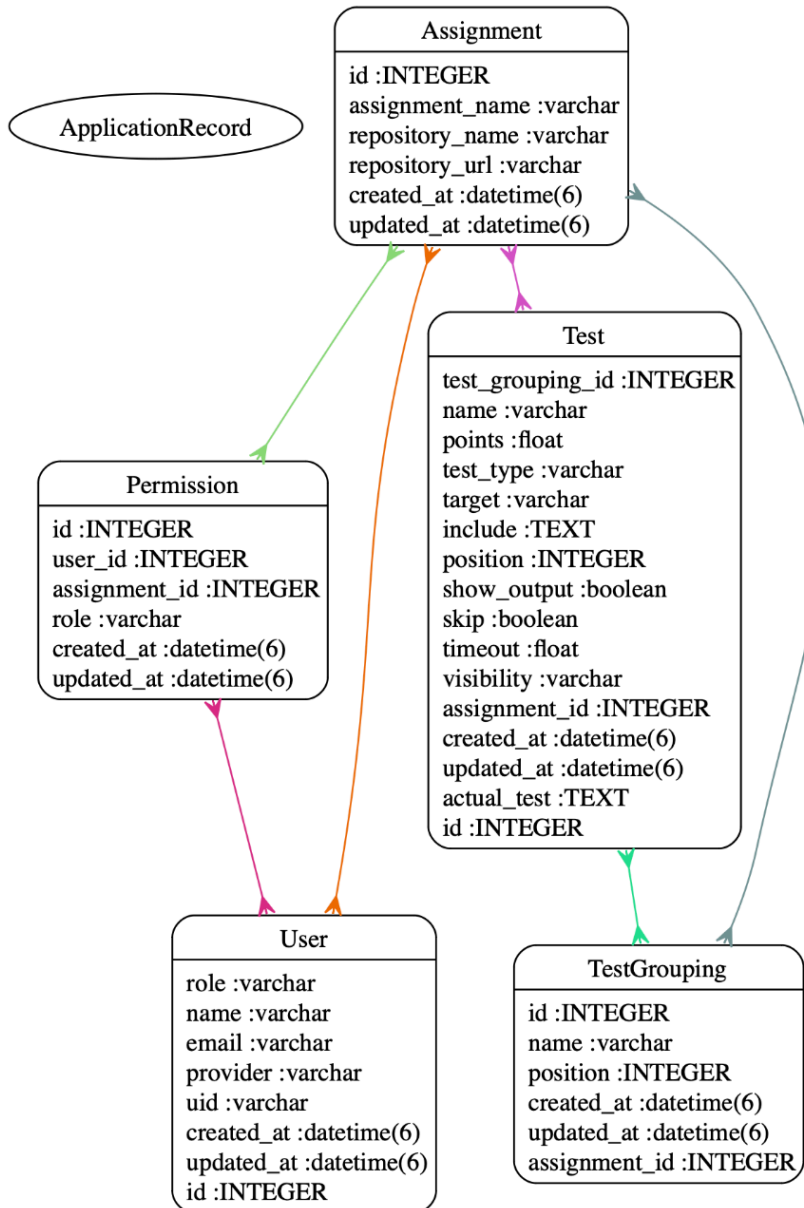
	"View Assignments" page.	
10	<ul style="list-style-type: none"> • Add an assignment permissions button on the "View Assignments Page" • Redirect the button to a page that displays the list of users. • Add checkboxes to update the user roles for that assignment 	Completed
15	<ul style="list-style-type: none"> • Update all links with buttons • Modify all button labels to clearly convey function 	Completed
16 (-)	<ul style="list-style-type: none"> • Create all necessary partials • Implement logic to render specific partial depending on test type 	<p>During Sprint Planning for Sprint 2, we identified this task as achievable. and</p> <p>However, as development progressed, we discovered that it was more complex than initially anticipated. Consequently, we were unable to complete it within the planned timeline.</p>
+	Fix production environment	Completed
+ / *	Addition of user to GitHub organization through UI	Added after sprint planning, then removed due to time constraints
+ / *	Removal of user from GitHub organization through UI	Added after sprint planning, then removed due to time constraints

Burndown Chart:



Design diagrams:

45



Documentation of changes

- Changes in our App's User-Interface:
 - Changing Links to Buttons with Consistent Styling and Naming:

Welcome to Autograder!

This autograding system allows for an easier creation and maintenance of assignments and their constituent tests

You are logged in as masarkar-tamu!



Assignments

 ×

Search Assignment

Repository Name ▲	Created On ▲	Last Updated ▲	Actions		
sample-repo	10-22-2024 19:22	10-22-2024 19:22	Export	Edit	Manage Permissions
test-ms-32	10-23-2024 13:18	10-23-2024 13:18	Export	Edit	Manage Permissions

Create Assignment

Newly Styled Buttons

- Search bar and Tabular Display of Assignments in Course Overview Page:

Autograder Frontend Course Dashboard Manage Users Logout

Assignments

Search - Bar → Search... × Search Assignment

Repository Name ▲	Created On ▲	Last Updated ▲	Actions		
sample-repo	10-22-2024 19:22	10-22-2024 19:22	Export	Edit	Manage Permissions
test-ms-32	10-23-2024 13:18	10-23-2024 13:18	Export	Edit	Manage Permissions

Create Assignment

- Addition of Nav-Bar in the App's Pages and Inclusion of Logout Option in the Nav-Bar:

Autograder Frontend Course Dashboard Manage Users Logout

Nav-Bar Button for Logout

Assignments

Search... × Search Assignment

Repository Name ▲	Created On ▲	Last Updated ▲	Actions		
sample-repo	10-22-2024 19:22	10-22-2024 19:22	Export	Edit	Manage Permissions
test-ms-32	10-23-2024 13:18	10-23-2024 13:18	Export	Edit	Manage Permissions

Create Assignment

- Addition of Test Grouping and option to include Group Number in Test Creation:

Autograder Frontend
Course Dashboard
Manage Users
Logout

Assignment: test-ms-32

Tests for test-ms-32

New Test Grouping
+

1) Miscellaneous Tests
2) test-ms-32-grp-1

1) test-1 (1.0 pts.)

Add new test
Create and Download ZIP

New Test for Assignment test-ms-32

Option to include Group Number
Group Number

Name

Points

Test type
coverage

Target

Include

Test Grouping List

Presence of Tests within Group

- Updation of User-Wise Access View:

Autograder Frontend
Course Dashboard
Manage Users
Logout

masarkar-tamu's Assignments

Repository	Read	Write
sample-repo	<input type="checkbox"/>	<input type="checkbox"/>
test-ms-32	<input type="checkbox"/>	<input type="checkbox"/>

Save Changes

- Updation of Assignment-Wise Access View:

Autograder Frontend Course Dashboard Manage Users Logout

Access Management for test-ms-32

User	Read	Write
masarkar-tamu	<input type="checkbox"/>	<input type="checkbox"/>

Save Changes

Evaluations of code and test quality: CodeClimate gives us an ‘A’ with 4 code smells.

Rubocop: No violations

Coverage RSpec + Cucumber: 97.01%

Customer Meeting

Meeting: 22 October 2024, Tuesday from 12:00 pm, on Zoom Platform

- Misc. feedback
 - Client wants the user to be rerouted directly to the course overview page, if they are logged in and they try to access the login page of the app.
- Course overview page feedback
 - Client wants the assignment repository name to be linked to the Assignment Edit page.
 - Client wants to remove the “Edit” option from the Actions column.
 - Client wants the name of two sets of buttons to be changed, namely: “Export” button and “Manage Permissions” button.
 - Client wants to make some adjustments to the assignments table’s styling: (a) he wants the text to be left justified, and (b) he wants the sorted column to be highlighted.
- Individual Assignment Edit Page

- Client wants points to be edited outside of individual tests
- Client prefers not to view points associated with individual tests alongside their corresponding test names.
- Client wants the assignment edit page to be more organized, with consistent naming conventions.
- Test Grouping creation feedback
 - Client wants to remove the ability to update grouping names
- Test Creation feedback
 - Client wants to incorporate numbering to tests.
 - Client wants test-type to be static after initial creation (remove ability to edit test type in “Edit Test” feature)
 - Clients visual confirmation when a test is deleted.
- Dynamic Test Editor
 - Client wants to have the dynamic test editor (refer to **Story 16** in **Spring Backlog table**) to be completed soon.

bdd & tdd

Both tdd and bdd were followed for this sprint using cucumber scenarios and rspec tests.

Summary:

Positives from this sprint:

1. We were able to meet a lot of our goals
2. Communication improved a lot from the last sprint
3. Received acceptance tests early

Improvements for future sprints:

1. Assign each user story a priority/order to reduce the likelihood of complex merge conflicts.
2. Begin development earlier in the sprint to reduce stress towards the end and to allow time to handle problems that crop up.
3. Use a staging deployment to ensure that the app works in the production environment before deploying to the main deployment.
4. Better assessment of story complexity (we tend to underestimate).
5. Focus more on design details during sprint planning