Sprint 1 Retrospective

Contents

Team Roles

Product Owner: Pavithra Gopalakrishnan

Scrum Master: Navya Unnikrishnan

Dates of Sprint

23rd September 2024 – 6th October 2024

Information About Team and Contributions

TEAM MEMBER	ROLES	CONTRIBUTION
PAVITHRA GOPALAKRISHNAN	Product Owner	She took care of all the correspondence with the client and also ensured the product standard by writing acceptance tests.
NAVYA UNNIKRISHNAN	Scrum Master	Her work involved coordinating the team and documenting their effort. She also helped set up the CI CD pipeline and Code Climate.
COLBY ENDRES	Developer	Colby set up the application's OAuth and researched the teaching assignment constraint optimization solution. He also wrote test cases for the same.
YUQI FAN	Developer	Yuqi looked at the CSV upload for the tool and wrote test cases for the same.
ABEL GIZAW	Developer	Abel designed the database and created a UML diagram for the application.
NAVYA NANDIMANDALAM	Developer	Navya set up the project repository. She also set up the CI/CD pipeline, Test Suite, and Code Climate for the application. She deployed the application.
WAHIB KAPDI	Developer	Wahib worked on the application UI mock-up and prototype and corroborated them with the client.

Sprint Goal

Our main goal in the first sprint was to get the project setup done. Including CI/CD pipeline, Test Suite, Project Repository, Pivotal Tracker, and Code Climate. We also aimed to do requirement gathering and feasibility analysis. This includes analysing the data from the client, looking into ways of building the algorithm, creating a clean way of deploying the algorithm and uploading user csv.

Sprint Achievements

- Data Collection and Analysis was started
- Pivotal Tracker was set up
- CI/CD was set up
- Code Climate was set up
- The project was hosted on Heroku
- UI Mock-ups were created and corroborated by the client
- Database Design was created and corroborated by the client
- User OAuth was set up (With only .tamu.edu ids allowed)
- Uploading CSV started
- Integration and Unit Test Suite was set up

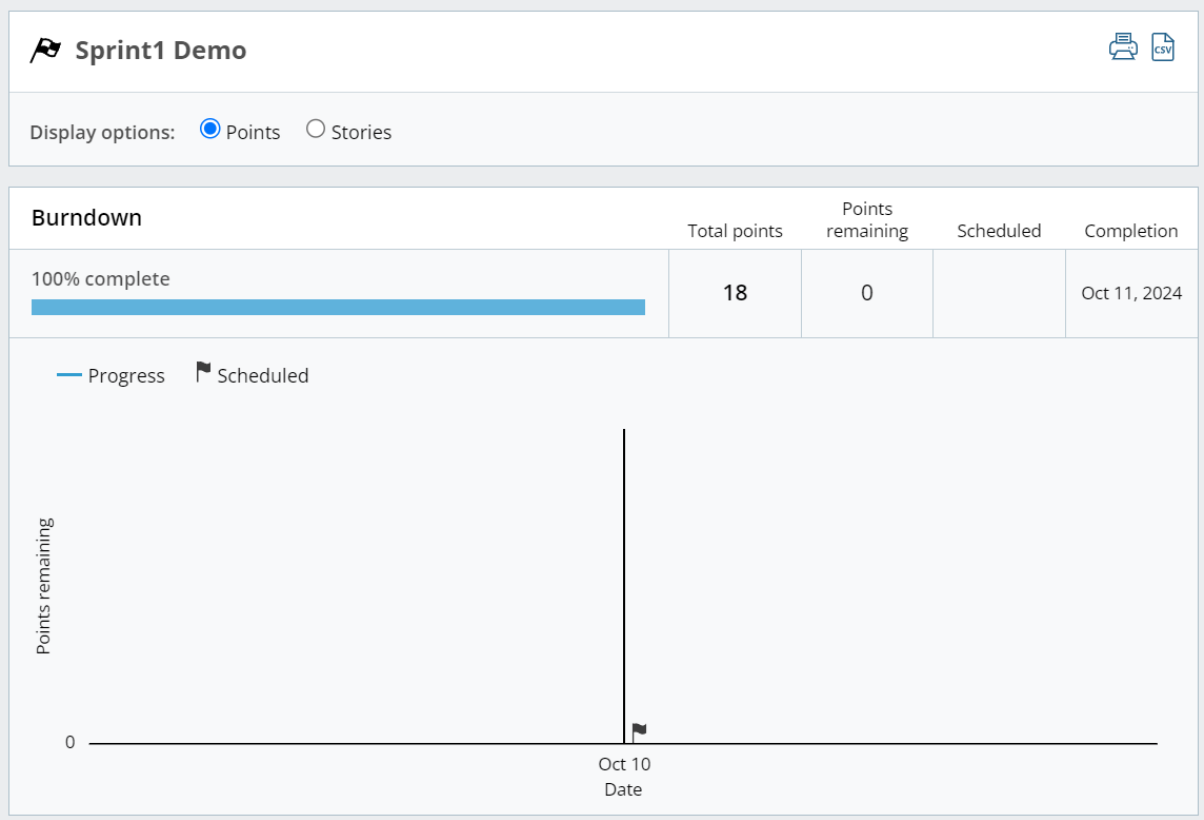
Backlog Items and status

No items that were put into the sprint were put back into the backlog.

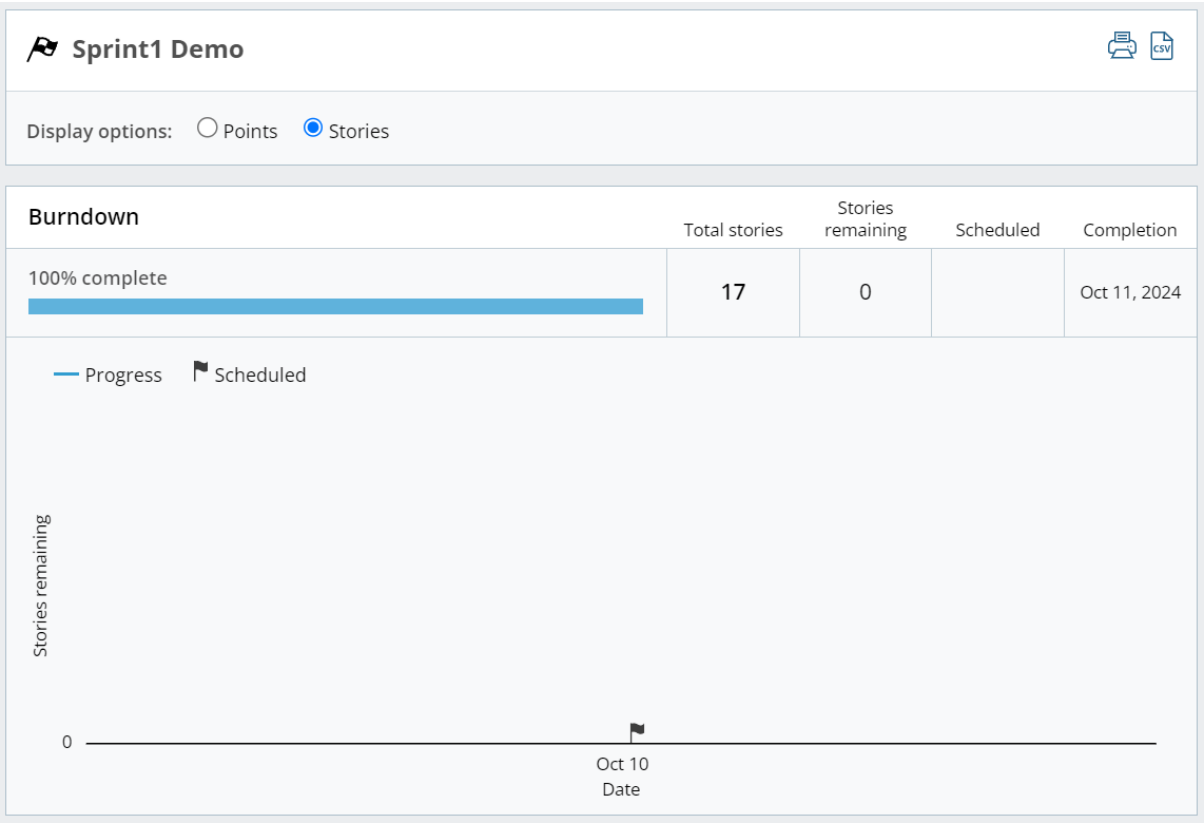
Change	Story	Status
+	Write tests for csv upload	Completed
+	User should be able to see the Header Bar and Logout form	In Progress
+	User should be able to upload data as csv file	In Progress
+	Link Github and Pivotal Tracker	New
+	User should be able to see the Time Slot View	New
+	User should be able to see the Room View	New
+	User sees the landing page with all the generated schedules	New
+	Research Constraint Optimization Algorithm	
+	User should be able to see the instructors View	New
+	User should be able to see the courses View	New
+	Look into drag n drop functionality	Icebox

Burndown and Burnup Chart

Point based burndown chart for the sprint

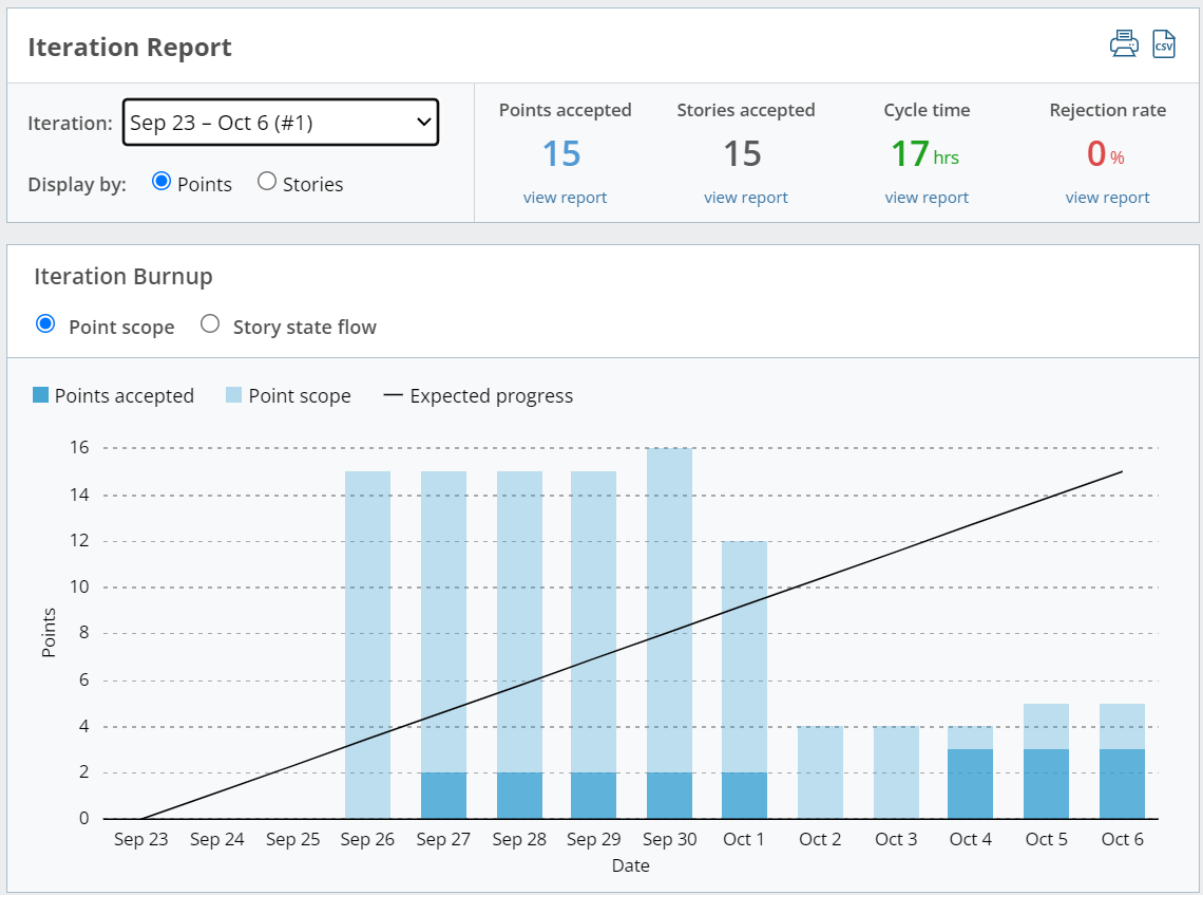


Story Based burndown chart for the sprint



The chart looks empty as currently there was only 1 release.

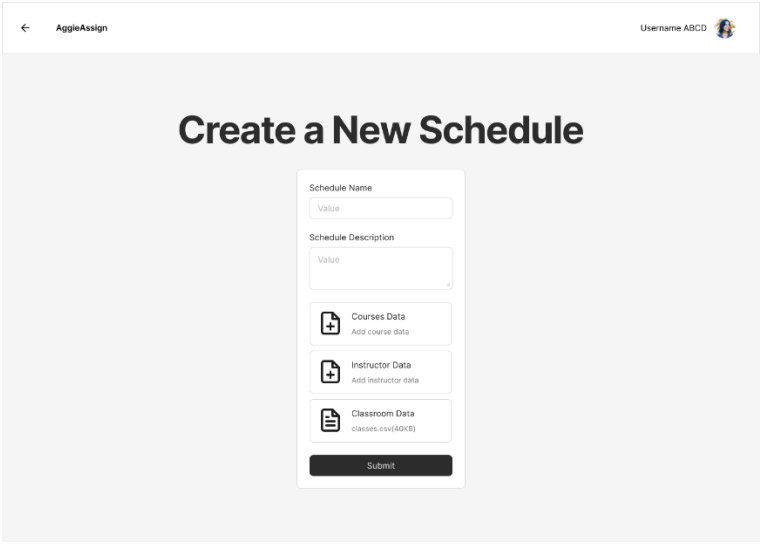
Sprint Burnup Chart

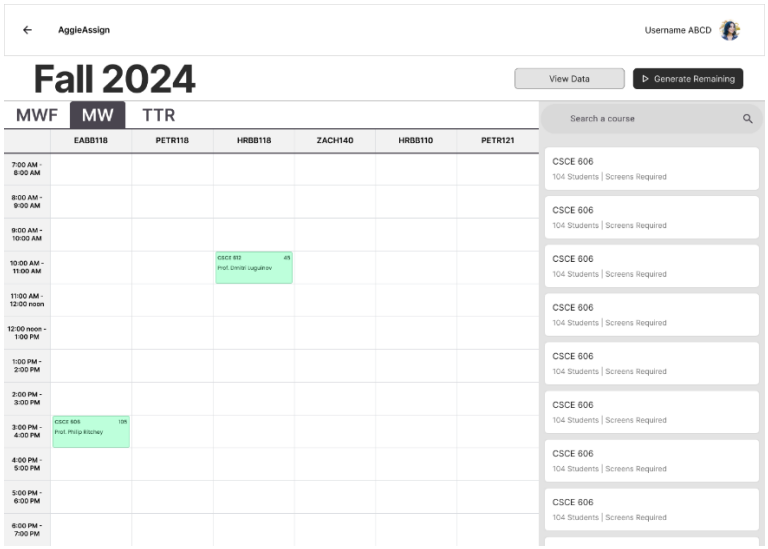


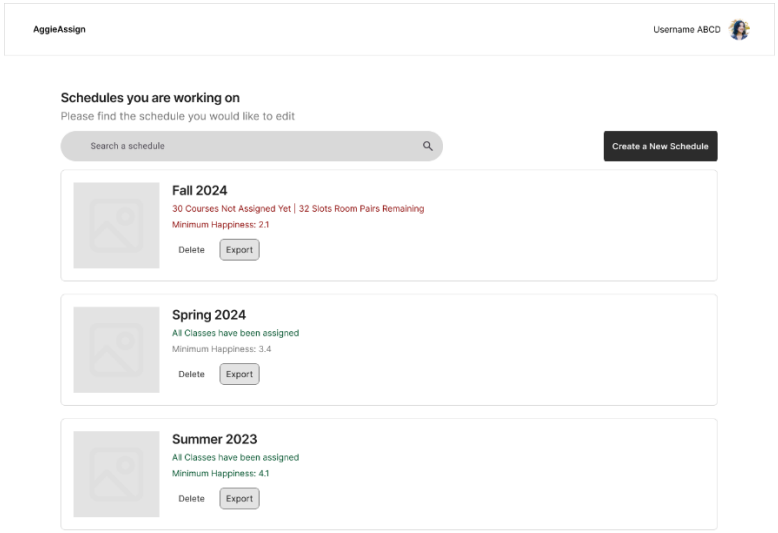
Design Diagram

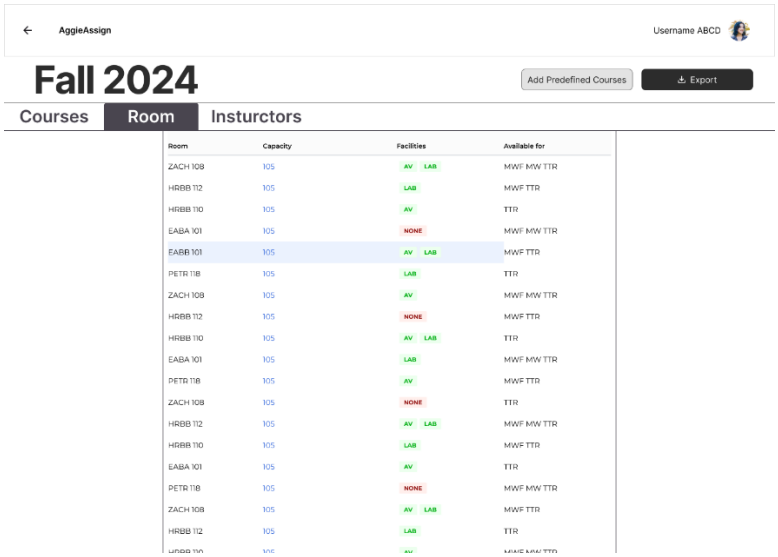
UI Design

Figma Link: https://www.figma.com/design/CRRqUd8c0q8BnKWkPlY1pS/AggieAssign?node-id=12-112&t=TqNldS3A8Ih53lz2-1

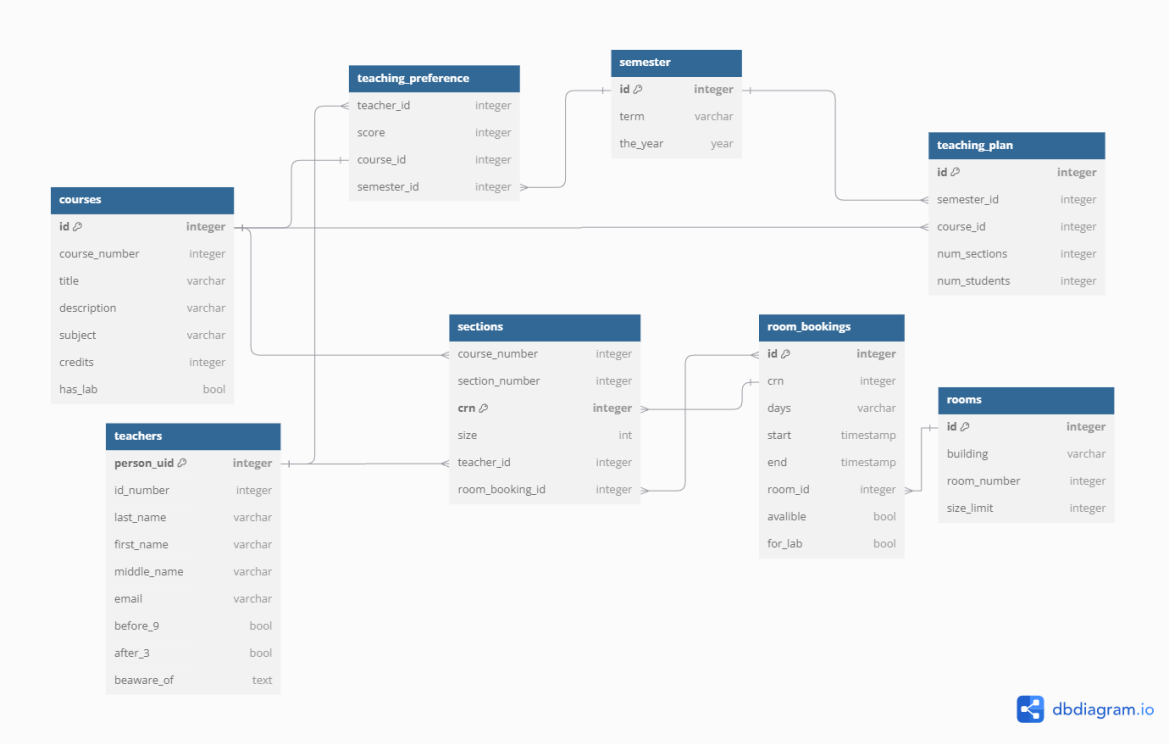



AggieAssign
Username ABCD
Fall 2024
View Data
Generate Remaining
MWF
MW
TTR
EABB118
PETR118
HRBB118
ZACH140
HRBB110
PETR121
7:00 AM - 8:00 AM
8:00 AM - 9:00 AM
9:00 AM - 10:00 AM
10:00 AM - 11:00 AM
11:00 AM - 12:00 noon
12:00 noon - 1:00 PM
1:00 PM - 2:00 PM
2:00 PM - 3:00 PM
3:00 PM - 4:00 PM
4:00 PM - 5:00 PM
5:00 PM - 6:00 PM
6:00 PM - 7:00 PM
Search a course
CSCE 606
104 Students | Screens Required


AggieAssign
Username ABCD
Schedules you are working on
Please find the schedule you would like to edit
Search a schedule
Create a New Schedule
Fall 2024
30 Courses Not Assigned Yet | 32 Slots Room Pairs Remaining
Minimum Happiness: 2.1
Delete
Export
Spring 2024
All Classes have been assigned
Minimum Happiness: 3.4
Delete
Export
Summer 2023
All Classes have been assigned
Minimum Happiness: 4.1
Delete
Export


AggieAssign
Username ABCD
Fall 2024
Add Predefined Courses
Export
Courses
Room
Insturctors
Room
Capacity
Facilities
Available for
ZACH 108 105 AV LAB MWF MW TTR
HRBB 112 105 LAB MWF TTR
HRBB 110 105 AV TTR
EABA 101 105 NONE MWF MW TTR
EABB 101 105 AV LAB MWF TTR
PETR 118 105 LAB TTR
ZACH 108 105 AV MWF MW TTR
HRBB 112 105 NONE MWF TTR
HRBB 110 105 AV LAB TTR
EABA 101 105 LAB MWF MW TTR
PETR 118 105 AV MWF TTR
ZACH 108 105 NONE TTR
HRBB 112 105 AV LAB MWF MW TTR
HRBB 110 105 LAB MWF TTR
EABA 101 105 AV TTR
PETR 118 105 NONE MWF MW TTR
ZACH 108 105 AV LAB MWF TTR
HRBB 112 105 LAB TTR

UML Diagram

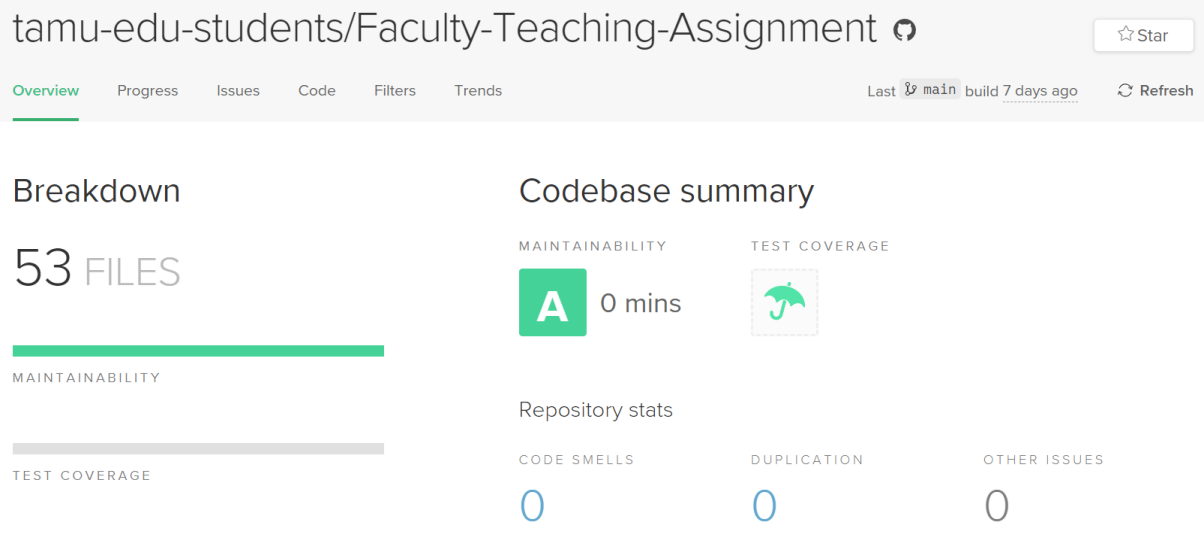


Documentation of Changes

This was the first sprint hence; no changes were made to any documentation.

Evaluation of Code and Test Quality

Code Climate



Rubocop

Currently at 11 offenses which is less than 1 per file.

```
55 files inspected, 11 offenses detected, 1 offense corrected

Tip: Based on detected gems, the following RuboCop extension libraries might be helpful:
  * rubocop-capybara (https://rubygems.org/gems/rubocop-capybara)
  * rubocop-rspec (https://rubygems.org/gems/rubocop-rspec)
  * rubocop-rspec_rails (https://rubygems.org/gems/rubocop-rspec_rails)

The following RuboCop extension libraries are installed but not loaded in config:
  * rubocop-rails

You can opt out of this message by adding the following to your config (see https://docs.rubocop.org/rubocop/extensions.html#extension-suggestions for more options):
  AllCops:
    SuggestExtensions: false
```

Coverage

Unit Tests: (rspec)

```
wskapdi@Wahib-Omen:/mnt/c/Users/91993/Desktop/TAMU/SE/project/Faculty-Teaching-Assignment$ bundle exec rspec
session[:user_id] = 1
...........

Finished in 0.2301 seconds (files took 2.13 seconds to load)
11 examples, 0 failures

Coverage report generated for Cucumber Features, RSpec to /mnt/c/Users/91993/Desktop/TAMU/SE/project/Faculty-Teaching-Assignment/coverage.
Line Coverage: 97.73% (43 / 44)
```

Integ Tests: (cucumber)

```
2 scenarios (2 passed)
9 steps (9 passed)
0m1.142s

Share your Cucumber Report with your team at https://reports.cucumber.io

Command line option:    --publish
Environment variable:   CUCUMBER_PUBLISH_ENABLED=true
cucumber.yml:           default: --publish

More information at https://cucumber.io/docs/cucumber/environment-variables/

To disable this message, specify CUCUMBER_PUBLISH_QUIET=true or use the
--publish-quiet option. You can also add this to your cucumber.yml:
default: --publish-quiet

Coverage report generated for Cucumber Features to /mnt/c/Users/91993/Desktop/TAMU/SE/project/Faculty-Teaching-Assignment/coverage.
Line Coverage: 95.45% (42 / 44)
```

A coverage of almost 90% was achieved in the first sprint.

Test cases covered

```
Scenario: User logs in with Google OAuth successfully # features/OAuth.feature:3
  Given I am on the welcome page                      # features/step_definitions/OAuth_Authorization_steps.rb:3
  When I click the button "Sign in with Google"       # features/step_definitions/OAuth_Authorization_steps.rb:12
  And I authorize access from Google                  # features/step_definitions/OAuth_Authorization_steps.rb:16
  Then I should be on my profile page                 # features/step_definitions/OAuth_Authorization_steps.rb:21
  And I should see "You are logged in"                # features/step_definitions/OAuth_Authorization_steps.rb:25

Scenario: User logs out successfully    # features/OAuth.feature:10
  Given I am logged in as a user        # features/step_definitions/OAuth_Authorization_steps.rb:34
  When I click "Logout"                 # features/step_definitions/OAuth_Authorization_steps.rb:39
  Then I should be on the welcome page  # features/step_definitions/OAuth_Authorization_steps.rb:43
  And I should see "You are logged out" # features/step_definitions/OAuth_Authorization_steps.rb:25

2 scenarios (2 passed)
9 steps (9 passed)
```

Currently, the only testable feature added is OAuth and we have added two scenarios for it.

Unit Test scenarios covered:

- GET#logout
    - redirects to the welcome path with a notice
    - resets the session
- GET#omniauth
    - finds or creates a user and sets the session user_id

- redirect to the root path
- sets the flash notice

Customer Meeting

1:45 PM 16th September 2024

Place: PETR 102B

Customer Meeting Details and Feedback

Discussing the DB and Application Design with the Client.

Showed the client Figma designs

- Try to add course schedule-locking mechanisms
- Generate somewhat different schedules for every play
- Allow removal and addition of courses from the same place
- Look into converting labs into sections
- Try moving the scheduling page together with the viewing page.

Showed the client our DB Design

- Suggested we allow multiple schedules for the same semester
- Try timeslot storage
- Try generalizing relations further

Reminded him to send the data for analysis and algorithm generation purposes.

Links

Deployed App: https://faculty-teaching-assignment-31f5f9c405bc.herokuapp.com/

GitHub Repository: https://github.com/tamu-edu-students/Faculty-Teaching-Assignment

Pivotal Tracker: https://www.pivotaltracker.com/n/projects/2721604

Slack: https://tamu.slack.com/archives/C07PA043PA7

Team Working agreement: https://github.com/tamu-edu-students/Faculty-Teaching-Assignment/blob/documentation/documentation/Fall2024/Team%20Working%20Agreement.md

Code Climate Report: https://codeclimate.com/github/tamu-edu-students/Faculty-Teaching-Assignment