Sprint 3 Retrospective

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Team Roles

Product Owner: Colby Endres

Scrum Master: Navya Priya Nandimandalam

Dates of Sprint

21st October 2024 - 3rd November 2024

Information about Team and Contributions

Team Member	Points	Role	Contribution
Colby Endres	3	Product Owner	Colby allowed for the viewing of schedules in a more intuitive manner from the landing page and also modified the algorithm to account for overlapping time slots. He also worked directly with the client to set up meetings, set agendas, and ensure that client needs were met.
Navya Priya Nandimandalam	2	Scrum Master	Navya coordinated with the team and the product owner and ensured the developers were clear on the evolving requirements. She also took care of documenting the efforts and conducting sprint ceremonies. Additionally, she worked with Wahib to develop the predefined courses feature.
Navya Unnikrishnan	3	Developer	Navya worked on parsing the Instructor preferences data from the csv, ensuring that preferences are linked to each instructor and course. She also worked on redesigning the UI and allowing for more fluid navigation by setting up back buttons across several pages. She also ensured all the test cases passed.
Pavithra Gopalakrishnan	3	Developer	Pavithra worked on fixing a bug within the filtering system for the Time Slot Page and also worked on allowing for the blocking of times and rooms. She also followed the TDD and BDD approach to develop the feature.
Yuqi Fan	2	Developer	Yuqi worked on trying out various algorithms for the constraint optimization

			algorithm. He did PoCs on them and collaborated with Colby to identify the optimal algorithm for our use case.
Wahib Sabir Kapdi	3	Developer	Wahib allowed for editing of a preexisting schedule by allowing for a new csv upload, documented code deployment process, allowing for viewing of time slot matrix and predefined courses. He also made sure to cover all test cases and meet the acceptance criteria.
Abel Gizaw	2	Developer	Abel worked on trying to integrate our various soft constraints for the constraint optimization algorithm. Additionally, he assisted in writing steps for cucumber tests.

Sprint Goal

Our sprint goal was to run the Constraint Optimization Algorithm on the actual data provided by the client and alongside this implementation, also look into running the algorithm to satisfy soft constraints like the instructor's preferences. Additionally, we are working on completing the remaining skeleton UIs and fixing some bugs identified in the previous sprint. This involved fleshing out the pre-existing courses page as well as the schedule view. The feature for adding the instructor preference was also added.

Sprint Achievements

- Course View was created
 A schedule room/time slot matrix for visualizing the allotment was developed
- The ability to add predefined courses to ensure no other class can get scheduled at the same time was implemented.
- Instructor preferences data was parsed to try the algorithm on soft constraints
- Filtering of time slots bug was fixed in the time slot view

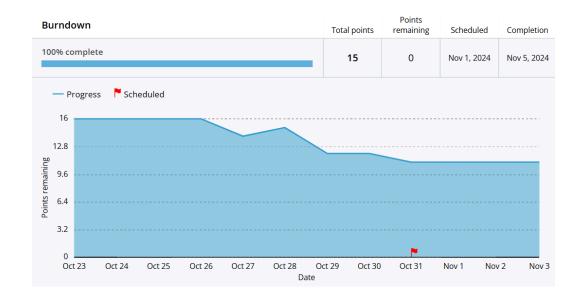
Sprint Backlog Items and Status

Change	Story/Bug	Status
--------	-----------	--------

+	User should be able to edit the added rooms in a schedule by uploading a new csv	Completed
+	User should be able to see the Courses Constraints View	Completed
+	User should be able to view the Schedule Room/ Time Slot Matrix	Completed
+	User should be able to add Predefined Courses and Instructors	Completed
+	User should be able to navigate to the previous pages using Back Buttons	Completed
+	Instructor Preference - Parse data and populate table	Completed
	User should be able to parse instructor preferences and view them	Completed
+	User should be able to generate schedule by uploading data	Completed
-	Users should be able to block time slots	Rolled Over
-	PoC - Soft constraints with the algorithm	Rolled Over

Burndown and Burnup Chart

Point-based burndown chart for this sprint



Story based burndown chart for this sprint



Sprint burnup chart



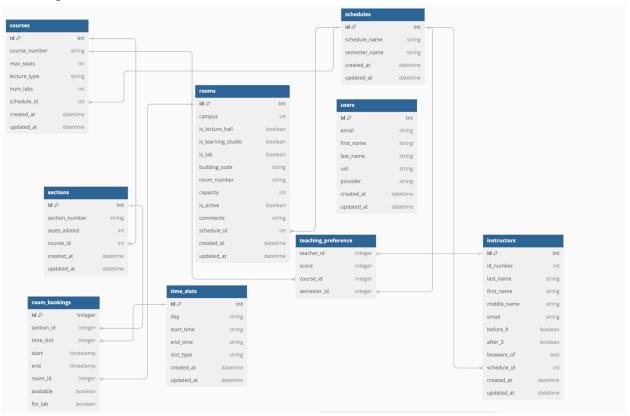
Design Diagram

UI Design

- No changes were made
- https://www.figma.com/design/CRRqUd8c0q8BnKWkPIY1pS/AggieAssign?node-id=1-23 77&node-type=frame

DB Design

- No changes were made



Documentation of changes

DB Design

There was no update.

Mock-ups and storyboards

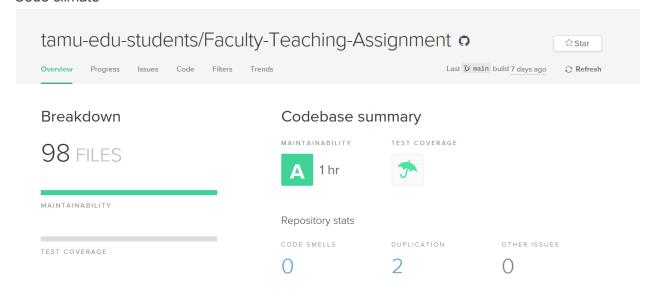
There was no update.

Team working agreement Updates

- Finish work by Wednesday of the sprint deadline to allow for testing and merge conflict resolution
- Ask for help!!

Evaluation of code and test quality

Code climate



Rubocop

```
Tip: Based on detected gems, the following RuboCop extension libraries might be helpful:

* rubocop-capybara (https://rubygems.org/gems/rubocop-capybara)

* rubocop-factory_bot (https://rubygems.org/gems/rubocop-rapybara)

* 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)

```
pgopal719@PavithraLenovo:~/CSCE606/Faculty-Teaching-Assignment$ bundle exec rspec

Finished in 3.56 seconds (files took 7 seconds to load)
97 examples, 0 failures

Coverage report generated for RSpec to /home/pgopal719/CSCE606/Faculty-Teaching-Assignment/coverage.
Line Coverage: 96.92% (378 / 390)
pgopal719@PavithraLenovo:~/CSCE606/Faculty-Teaching-Assignment$
```

Integration Tests (cucumber)

```
Share your Cucumber Report with your team at <a href="https://reports.cucumber.io">https://reports.cucumber.io</a>

Command line option: --publish

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

More information at <a href="https://cucumber.io/docs/cucumber/environment-variables/">https://cucumber.io/docs/cucumber/environment-variables/</a>

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, RSpec to /home/pgopal719/CSCE606/Faculty-Teaching-Assignment/coverage.
Line Coverage: 97.18% (379 / 390)
```

Tests Covered as part of Sprint 3

Cucumber test cases:

```
pgopal719@PavithraLenovo:~/CSCE606/Faculty-Teaching-Assignment$ bundle exec rspec
 Finished in 3.56 seconds (files took 7 seconds to load) 97 examples, \theta failures
 Coverage report generated for RSpec to /home/pgopal719/CSCE606/Faculty-Teaching-Assignment/coverage. Line Coverage: 96.92% (378 / 390)
pgopal7139Pavithralenovo:-/CSCE606/Faculty-Teaching-Assignment$ bundle exec cucumber
Using the default profile...
Feature: Google OAuth Authentication and Authorization
      Scenario: User logs in with Google OAuth successfully # features/OAuth.feature:3
Given I am on the welcome page
When I click the button "Sign in with Google"
And I authorize access from Google
Then I should be on my schedules page
And I should see "You are logged in"
# features/step definitions/OAuth_Authorization_steps.rb:16
# features/step_definitions/OAuth_Authorization_steps.rb:25
# features/step_definitions/OAuth_Authorization_steps.rb:25
# features/step_definitions/OAuth_Authorization_steps.rb:25
      Scenario: User logs out successfully

Given I am logged in as a user

When I click "Legout"

Then I should be on the welcome page
And I should see "You are logged out" # features/step_definitions/common_steps.rb:39

And I should see "You are logged out" # features/step_definitions/common_steps.rb:7
  Feature: Courses Page
            uner courses rage
As a scheduler
I should be able to upload couses and view them
So that I can review the courses and sections used to generate the schedule
      Scenario: User should not be able to reach an invalid schedule's courses page

Given I am logged in as a user with first name "Test"

And a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024" # features/step_definitions/rooms_steps.rb:12

When I visit the courses page for id "9a9a9a9"

Then I should see "Schedule not found." # features/step_definitions/courses_steps.rb:7
      Scenario: User should be able to see course view with an appropriate message even if there is no data # features/courses.feature:12
Given I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3
And a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024" # features/step_definitions/rooms_steps.rb:12
When I visit the courses page for "Sched 1" # features/step_definitions/courses_steps.rb:7
Then I should see "No courses added to this schedule!" # features/step_definitions/common_steps.rb:7
       Scenario: User should be able to see uploaded courses and details

Given I am logged in as a user with first name "Test"

And a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024" # features/step_definitions/welcome.rb:3

And the following courses exists for that schedule:

| course_number | max_seats | lecture_type | num_labs |
| 110 | 96 | F2F | 4 |
| 111 | 96 | F2F | 4 |
| 111 | 96 | F2F | 4 |
                       111/708 (86/10)
                                                                                     96
96
96
96
                                                                                                                      | F2F
| F2F
                     120
120
                                                                                                                                                               | 4
| 4
| 4
| 4
| 2
                     120
120
               | 120
| 435/735/735D
                                                                                96
135
                                                                                                                    F2F
         | 435/735/7350 | 135 | F2F

When I visit the courses page for "Sched 1"

Then I should see "Course Number"

And I should see "Max Seats"

And I should see "Lecture Type"

And I should see "Number of Labs"

And I should see "Sections"

When I click "Course Number"

Then I should see "435/735/735D" first
                                                                                                                                                                                                                                                                  # features/step_definitions/common_steps.rb:7
# features/step_definitions/common_steps.rb:7
                                                                                                                                                                                                                                                                  # features/step_definitions/common_steps.rb:7
# features/step_definitions/common_steps.rb:7
                                                                                                                                                                                                                                                                                     # features/courses.feature:44
# features/step_definitions/nooms_steps.rb:12
# features/step_definitions/welcome.rb:3
# features/step_definitions/instructors_steps.rb:55
      Scenario: User should be able to upload a valid course file
Given a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024"
         And I am logged in as a user with first name "Test"

And I am logged in as a user with first name "Test"

# features/step_definitions/rooms_steps.rb:12

And I am on the details page for "Sched 1"

When I attach a valid "course_file" with path "spec/fixtures/courses/Course_list_valid.csv" # features/step_definitions/instructors_steps.rb:59

And I click the "Upload Course Data" button

# features/step_definitions/common_steps.rb:39
            Then I should see "Courses successfully uploaded."
    Scenario: User should see an appropriate message if click on upload without attaching a file # features/courses.feature:52

Given a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024" # features/step_definitions/rooms_steps.rb:12

And I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3

And I am on the details page for "Sched 1" # features/step_definitions/instructors_steps

When I click the "Upload Course Data" button # features/step_definitions/common_steps.rb:7

Then I should see "Please upload a CSV file." # features/step_definitions/common_steps.rb:7
                                                                                                                                                                                                                                                                                  # features/step_definitions/welcome.rb:3
# features/step_definitions/instructors_steps.rb:55
Feature: Instructors Page
           As a scheduler
            I want to view the list of instructors and their preferences
So that I can review instructor details that are being used to generate the schedule
      Background: courses in database
         | course_id
| 120
| 465D/765D
    Scenario: User should not be able to reach an invalid schedule instructor page # features/instructors.feature:17

Given I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3

And a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024" # features/step_definitions/rooms_steps.rb:12

When I visit the instructor page for id "999999" # features/step_definitions/instructors_steps.

Then I should see "Schedule not found." # features/step definitions/common steps.rb:7
```

```
is lab
                                                                                                                                                    is learning studio
                                                                                                                                                                                             | is lecture hall
           CS
GV
CS
                                  BLDG1
BLDG2
                                                                                                                                 true
true
                                                                                                                                                     true
true
                                                                                                                                                                                                true
true
                                                            102
                                 BLDG3
                                                                                                        false
                                                                                                                                 true
                                                                                                                                                    true
                                                                                                                                                                                             | true
                               schedule:
| slot_type
| "LEC"
| "LEC"
            day
MWF
           MW
                                 08:00
                                                            10:00
     | 105:00 | 105:00 | 10:00 | 10:00 | When I visit the room bookings page for Then I should see "View Data" | And I should see "BLDG1 101" | And I should see "BLDG1 101"
                                                                                                                                                              # features/step_definitions/common_steps.pt.7
# features/step_definitions/common_steps.rb:7
# features/step_definitions/common_steps.rb:7
 # features/step definitions/room bookings steps.rb:37
                                                                                       | slot_type
| "LEC"
| "LEC"
                                                                                                                                                              # features/step_definitions/room_bookings_steps.rb:32
# features/step_definitions/common_steps.rb:11
# features/step_definitions/common_steps.rb:7
# features/step_definitions/common_steps.rb:7
# features/step_definitions/common_steps.rb:15
# features/step_definitions/common_steps.rb:7
     When I visit the room bookings page for "Sched 1"
And I click "MW"
     And I click "MM"
Then I should see "View Data"
And I should see "08:00 - 10:00"
And I should not see "09:00 - 10:00"
And I should see "BLDG1 101"
 Scenario: User should see an appropriate message if no rooms exist
Given I am logged in as a user with first name "Test"
And a schedule exists with the schedule name "Sched I" and semester name "Fall 2024"
When I visit the room bookings page for "Sched I"
Then I should see "Yiew Data"
And I should not see "Generate Remaining"
And I should see "No rooms added to this schedule, click on View Data to Add Rooms!"
                                                                                                                                                              # features/step_definitions/room_bookings steps.rb:32
    cenario: User should be able to go back to the schedules page
Given I am logged in as a user with first name "Test"
And a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024"
When I visit the room bookings page for "Sched 1"
Then I should see "Back to Schedules"
When I click "Back to Schedules"
Then I should be on the schedules page
                                                                                                                                                              # features/step_definitions/common_steps.rb:7
# features/step_definitions/common_steps.rb:11
# features/step_definitions/common_steps.rb:23
 Scenario: User should be able to create a room booking
Given I am logged in as a user with first name "Test"
| sections
| 100,101
| 100 |
| 100 |
course_number
| 110
| 110
| 111
| 111
| 111
| 435/735/735D
| When I visit the room bo
And I book room "BLDG1"
And I click "Delete"
```

Then I should not see "Unlocked"

tenario: User should be able to lock a room booking
Given I am logged in as a user with first name "Test"
And a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024"
And the following morne write for the schedules.

```
Given I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3
And a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024" # features/step_definitions/rooms_steps.rb:12
And the following rooms exist for that schedule: # features/step_definitions/rooms_steps.rb:16
      Given I am logger us with the schedule name Scree .

And a schedule exists with the schedule:
And the following rooms exist for that schedule:
| campus | building_code | room_number | capacity | is_active | is_lab |
| CS | BLDG1 | 101 | 30 | true | true |
| CS | BLDG2 | 102 | 50 | true | true |
| CV | BLDG2 | 102 | 50 | false | true |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | is_lecture_hall
| true
| true
| true
                                                                                                                                                                                                                                                                                                                                                                                                                                   is_learning_studio
        # features/step definitions/room bookings steps.rb:37
        | New | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.500 | 10.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         # features/step definitions/room bookings steps.rb:8
                                                                                                                                                                                                                                                                                                                                                                                          | sections
| 100,101
                                                                                                                                | 96
| 96
| 135
                                                                                                                                                                                                                                                                                                                                                                                                 100,101
                                                                                                                                                                                                                                                                                                                                                                                             100
         When I visit the room bookings page for "Sched 1"
And I book room "BLDG1" "101" in "MWF" for "09:00 - 10:00" with "100" for "110"
And I click "Unlocked"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         # features/step_definitions/room_bookings_steps.rb:74
# features/step_definitions/common_steps.rb:11
# features/step_definitions/common_steps.rb:15
        Then I should not see "Unlocked"
And I should see "Locked"
Scenario: User should be able to assign instructors to a room booking # features/room_bookings.feature:124

Given I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3

And a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024" # features/step_definitions/rooms_steps.rb:10
        # features/step_definitions/rooms_s
# features/step_definitions/rooms_s
earning_studio | is_lecture_hall
| true
| true
| true
                                                                                                                                                                                                                                                                                                                                                                                                                                   | is_learning_studio
                                                                                                                                                                                                                                                                                                                                                                                                                                             true
true
                                                                                                                                                                                                                                                                                                                                                                                                                                          true
                           the following time slots exist for that schedule:
day start_time end_time slote
MWF 09:00 | 10:00 | "LEC"
MW | 88:00 | 10:00 | "LEC"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         # features/step definitions/room bookings steps.rb:37
                   day
MWF
                                                                                                                                                                                                                                                        | slot_type
| "LEC"
| "LEC"
                                                                                                                                     the following courses
course_number |
110 |
                                                                                                                                                                                                                                                                                                                                                                                           sections
                                                                                                                                                                                                                                                                                                                                                                                                 100,101
100 |
100
        # features/step definitions/instructors steps.rb:10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       after_3 | beaware_of | false | test | false |
                ure. Norms rage A as scheduler A as a scheduler A as a scheduler A as a scheduler A as a schedule A as a schedule A and A are A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A and A are used to generate the schedule A are used to generate the schedule A and A are used to generate the schedule A are used to generate the schedule A and A are used to generate A are used to generate the schedule A are used to generate A and A are used to generate A are used to generate
      Scenario: User should not be able to reach an invalid schedule room

Given I am logged in as a user with first name "Test"

And a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024" # features/step_definitions/rooms_steps.rb:12

When I visit the rooms page for id "BaBaBaB"

Then I should see "Schedule not found." # features/step_definitions/comms_steps.rb:70

# features/step_definitions/common_steps.rb:70
      Scenario: User should be able to see room view

Given I am logged in as a user with first name "Test"

And a schedule exists with the schedule name "Sched I" and semester name "Fall 2024" # features/step_definitions/cooms_steps.rb:12

And the following rooms exist for that schedule:

| campus | building_code | room_number | capacity | is_active | is_lab | is_learning_studio | is_lecture_hall |

| CS | BLDG3 | 101 | 30 | true | true | true | true |

| GV | BLDG2 | 102 | 50 | false | true | true | true |

| When I visit the rooms page for "Sched I"

Then I should see "Campus" # features/step_definitions/cooms_steps.rb:8

# features/step_definitions/cooms_steps.rb:7

And I should see "Show Active Rooms" # features/step_definitions/common_steps.rb:7
            And I should see "Show Active Rooms"

# features/step_definitions/common_steps.rb:/

# features/step_definitions/common_steps.rb:/

# features/step_definitions/common_steps.rb:/

# features/step_definitions/welcome.rb:3

# features/step_definitions/common_steps.rb:10

# features/step_definitions/common_steps.rb:10
        Scenario: User should be able to upload a valid rooms file

Given a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024" # features/step_definitions/rooms_steps.rb:12

And I am longed in as a user with first name "Test" # features/step_definitions/elocme.rb:3

And I am on the details page for "Sched 1" # features/step_definitions/instructors_steps.

When I attach a valld "room_file" with path "spec/fixtures/rooms/rooms_valid.csv" # features/step_definitions/instructors_steps.

And I click the "Upload Room Data" button

Then I should see "Rooms successfully uploaded." # features/step_definitions/common_steps.rb:3

# features/step_definitions/common_steps.rb:3

# features/step_definitions/common_steps.rb:3
```

```
Given I am logged in as a user with first name "Test"

And a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024"

# features/step_definitions/rooms_steps.rb:12

When I visit the rooms page for "Sched 1"

And I click "Back to Schedules"

# features/step_definitions/rooms_steps.rb:18

# features/step_definitions/common_steps.rb:11
              Then I should be on the schedules page
                                                                                                                                                                                                                                                                                                                          # features/step definitions/common steps.rb:23
Feature: Create a new schedule
       I want to create a new schedule
      Scenario: User should be able to create a schedule # features/schedule_create.feature:6

Given I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3
           Given I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3 # features/step_definitions/schedules_steps.rb:18 When I fill in "Schedule name" with "Fall 2024 Schedule" # features/step_definitions/common_steps.rb:19 And I fill in "Semester name" with "Fall 2024" # features/step_definitions/common_steps.rb:19 # features/step_definitions/common_steps.rb:19 # features/step_definitions/common_steps.rb:19 # features/step_definitions/common_steps.rb:7 And I should see "Fall 2024 Schedule" # features/step_definitions/common_steps.rb:7 # features/step_definitions/common_steps.rb:7 # features/step_definitions/common_steps.rb:7
Feature: Delete a schedule
       As a user
I want to delete a schedule I don't want
       So that I can remove it from the system
     Scenario: User should be able to delete an existing schedule # features/schedule_delete.feature:6

Given I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3

And I have created a schedule called "Fall 2024 Schedule" # features/step_definitions/schedules_steps.rb:26

And I am on the schedules index page # features/step_definitions/schedules_steps.rb:20

When I click the "Delete" button for "Fall 2024 Schedule" # features/step_definitions/schedules_steps.rb:30

Then I should see "Schedule was successfully deleted" # features/step_definitions/common_steps.rb:7

And I should not see "Fall 2024 Schedule" # features/step_definitions/common_steps.rb:15
Feature: Schedules page
             As a scheduler
So that I can see the schedules I have worked on
              I want to see the list of my schedules on the landing page and be able to search them
    Background: schedules in database # features/schedules.feature:6

Given the following schedules exist: # features/step_definitions/schedules_steps.rb:3

| schedule_name | semester_name |

Test Schedule 1 | Fall 2024 |

| Another Schedule | Spring 2024 |
     Scenario: User sees landing page with generated schedules # features/schedules.feature:13
Given I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3
When I visit the schedules index page # features/step_definitions/schedules_steps.rb:7
Hnen I should see "Test Schedule 1" # features/step_definitions/common_steps.rb:7
And I should see "Another Schedule" # features/step_definitions/common_steps.rb:7
     Scenario: User should be able to see each schedule's details # features/schedules.feature:19
Given I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3
When I visit the schedules index page # features/step_definitions/schedules_steps.rb:8
And I click on the card for "Test Schedule 1" # features/step_definitions/schedules_steps.rb:12
Then I should see "Schedule Mame: Test Schedule 1" # features/step_definitions/common_steps.rb:7
But I should not see "Another Schedule" # features/step_definitions/common_steps.rb:7
      Given I am logged in as a user with first name "Test" # features/schedules.feature:27
When I visit the schedules index page # features/step_definitions/welcome.rb:3
When I search for "Test Schedule" # features/step_definitions/schedules_steps.rb:3
Then I should see "Test Schedule" # features/step_definitions/common_steps.rb:7
But I should not see "Another Schedule" # features/step_definitions/common_steps.rb:5
     Scenario: Search for a non-existing schedule # features/schedules.feature:34
Given I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3
When I visit the schedules index page # features/step_definitions/schedules_steps.rb:37
When I search for "ABCD" # features/step_definitions/schedules_steps.rb:37
Then I should not see "Test Schedule 1" # features/step_definitions/common_steps.rb:15
And I should not see "Another Schedule" # features/step_definitions/common_steps.rb:15
     Scenario: User can upload room CSV # features/schedules.feature:41
Given I am logged in as a user with first name "Test" # features/step_definitions/welcome.rb:3
When I visit the schedules index page
And I click on the card for "Test Schedule 1"
Then I should see "Select Room Data (CSV)" # features/step_definitions/common_steps.rb:1
When I upload a valid room file # features/step_definitions/common_steps.rb:3
Then I should see "Rooms successfully uploaded" # features/step_definitions/common_steps.rb:3
# features/step_definitions/common_steps.rb:3
# features/step_definitions/common_steps.rb:7
     Scenario: User can upload instructor CSV only if courses are uploaded Given I am logged in as a user with first name "Test" When I visit the schedules index page
And I click on the card for "Test Schedule 1"
Then I should see "Sclect Instructor Data (CSV)"
And I should see the "Upload Instructor Data" button is disabled
## Stem Reveload Coursel
                                                                                                                                                                                                                                                                                                                                # features/step_definitions/welcome.rb:3
# features/step_definitions/schedules_steps.rb:8
# features/step_definitions/schedules_steps.rb:12
# features/step_definitions/common_steps.rb:7
# features/step_definitions/schedules_steps.rb:58
            # Step to upload courses
When I attach a valid "course_file" with path "spec/fixtures/courses/Course_list_valid.csv"
And I click the "Upload Course Data" button
Then I should see "Courses successfully uploaded"
            # HOW INSTRUCTOR Upload should be enabled
When I attack a valid "instructor_file" with path "spec/fixtures/instructors/instructors_valid.csv" # features/step_definitions/instructors_steps.rb:59
And I click the "Upload Instructor Data" button # features/step_definitions/common_steps.rb:3
Then I should see "Instructors and Preferences successfully uploaded" # features/step_definitions/common_steps.rb:7
Feature: Time Slots Page
```

```
So that I can filter and find time slots by day and type

Background:
Given a schedule exists with the schedule name "Sched 1" and semester name "Fall 2024" # features/step_definitions/rooms_steps.rb:12
And I am logged in as a user with first name "Test" # features/step_definitions/encome.rb:3
And the following time slots exist:

| day | start_time | end_time | slot_type |
| MmF | 69:08 | 10:08 | LEC |
| Mm | 10:08 | 11:09 | LEC |
| Mm | 10:08 | 11:09 | LEC |
| Mm | 10:09 | 12:00 | LEC |
| Mm | 10:00 | 11:00 | LEC |
| Then | 13:00 | 12:00 | LEC |
| Then | 13:00 | 12:00 | LEC |
| Then | 13:00 | 12:00 | LEC |
| Then | 13:00 | see a time slot for "MmF from "10:00" to "11:00" of type "LEC" # features/step_definitions/time_slots_steps.rb:23 And I should see a time slot for "MmF from "10:00" to "11:00" of type "LEC" # features/step_definitions/time_slots_steps.rb:23 And I should see a time slot for "Th" from "10:00" to "11:00" of type "LEC" # features/step_definitions/time_slots_steps.rb:23 And I should see a time slot for "Th" from "10:00" to "11:00" of type "LEC" # features/step_definitions/time_slots_steps.rb:23 And I should see a time slot for "Th" from "10:00" to "11:00" of type "LEC" # features/step_definitions/time_slots_steps.rb:23 And I should see a time slot for "Th" from "10:00" to "11:00" of type "LEC" # features/step_definitions/time_slots_steps.rb:23 And I slould see a time slot for "Th" from "10:00" to "10:00" of type "LEC" # features/step_definitions/time_slots_steps.rb:13 # features/step_definitions/
```

Unit Test Cases Covered:

Instructors Controller

- incorrect schedule id: Checks the invalid case
- without added instructors: When no instructors are added to a schedule, display an appropriate message
- with added instructors: Happy case, when instructors are added to a schedule
- Fetches correct preferences for an instructor

Rooms Controller

- incorrect schedule id: Checks the invalid case
- without added rooms: When no rooms are added to a schedule
- with added rooms: Happy case, when rooms are added to a schedule
- without any filters or sorting: When no filters or sort order is chosen
- with active filter: When filters are added
- with sorting by building_code in ascending order: Test sort by building_code
- with sorting by capacity in descending order: Test sort by capacity

SchedulesController

- GET #index: populates an array of schedules
- GET #show: assigns the requested schedule and renders the template
- GET #new: assigns a new schedule
- POST #create: saves new schedule to DB
- DELETE #destroy: delete schedule from DB
- POST #upload rooms: upload rooms for a particular schedule
- POST #upload instructors: upload instructors for a particular schedule

TimeSlotsController

- assigns all time slots when no filters are applied: display all time slots
- filters time slots by day: filter by day
- filters time slots by type: filter by type
- filters time slots by day and type: filter by day and type

Room_booking_controller

- GET #index: verifies functionality for existing room booking
- POST #create: saves new schedule to DB
- DELETE #destroy: delete schedule from DB

Customer Meeting

1) 1:45 PM October 30, 2024

Place: PETR 102B

Customer Meeting Details and Feedback

Presented and showcased the constraint optimization algorithm using test data as well as the current UI skeleton and updated features. In addition, we clarified doubts related to time schedules and additional requirements pertaining to exotic courses and predetermination of certain aspects of the schedule.

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:

 $\underline{https://github.com/tamu-edu-students/Faculty-TeachingAssignment/blob/documentation/documentation/faculty-TeachingAssignment/blob/documentation/documentation/faculty-TeachingAssignment/blob/documentation/documentation/documentation/faculty-TeachingAssignment/blob/documentation/documentation/documentation/documentation/faculty-TeachingAssignment/blob/documentation/documentation/documentation/documentation/faculty-TeachingAssignment/blob/documentation/documentation/documentation/faculty-TeachingAssignment/blob/documentation/documentation/documentation/faculty-TeachingAssignment/blob/documentation/documentation/faculty-TeachingAssignment/blob/documentation/documentation/faculty-TeachingAssignment/blob/documentation/faculty-TeachingAssignment/blob/documentation/faculty-TeachingAssignment/blob/documentation/faculty-TeachingAssignment/blob/documentation/faculty-TeachingAssignment/blob/documentation/faculty-TeachingAssignment/blob/documentation/faculty-TeachingAssignment/blob/documentation/faculty-TeachingAssignment-faculty-TeachingAss$

Code Climate Report:

 $\underline{https://codeclimate.com/github/tamu-edu-students/Faculty-TeachingAssignment}$