

# Sprint 4 Plan

## Team Members

**Client:** Shana Shaw

**Project Owner (Sprint 4):** Zengqi Liu

**Scrum Master (Sprint 4):** Sai Patibandla

**Developer (Sprint 4):** Arunima Chowdhury joseph13d@tamu.edu

**Team Meetings:** Monday, Wednesday, Friday after class (12:30 pm)

**Client Meetings:** Wednesday (3:00 pm)

# Project Overview

The goal of this project is to develop a software solution that automates the generation of block schedules for Engineering Academies (EA) across the state, starting with the Austin EA. The EA block scheduling system will be able to efficiently schedule math, science and engineering courses for both the fall and spring semesters. It will also ensure that no classes overlap while adhering to the prerequisites requirements. It aims to replace the current manual scheduling process, which involves manually processing spreadsheets, calendars and Google Forms. The software will be able to make the scheduling process for the Engineering Academics students and the administration smoother and more efficient in the admin side.

The project, which is designed for EA staff and students, provides a user-friendly interface that allows the staff and the students to create and manage schedules, making it easier to review, adjust and finalize the course schedules. By automating the scheduling process, it minimizes conflicts, ensures prerequisite requirements are met, and allows for quick modifications when necessary. The project is also supposed to provide a more structured and transparent way for students to plan their academic paths, helping them make informed decisions about their coursework. Moreover, it aims to reduce the administrative burden of manual scheduling, allowing the EA administration to focus on other essential tasks. Overall, the project is designed to improve efficiency and resource management for the Engineering Academies.

# Links

GitHub Repo: <https://github.com/patibas-tamu/EA-Block-Scheduling/>

Project Tracker: <https://github.com/users/patibas-tamu/projects/2>

Slack Channel: <https://app.slack.com/client/T08AF5S28LD/C08A3EL1J7R>

Heroku: <https://ea-block-scheduling-68f7266eed53.herokuapp.com/>

# Sprint Goal

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Fetch blocks from the upstream, enable only authenticated users to be able to login, enable non-tamu users to be admins, and add courses to the database.

## Stories pulled into the Sprint

Four stories were pulled in the sprint.

1. Register for the courses from the block selected (5 points)
  - As a student of the scheduling app
  - So that I can register for the courses
  - I want to register for blocks that I selected.
2. Change mock data in course registration form to fetch data from database (5 points)
  - As a students of the scheduling app
  - So that I can create register for courses
  - I want to register for courses that are added in the database.
3. Add courses to Database (5 points) - rollover from previous sprint
  - As an admin of the scheduling app
  - So that I can register students to courses
  - I want to add courses to the app so that students can select the courses.
4. Enable only users in DB to be able to login into App (5 points) - rollover from previous sprint
  - As a admin of the scheduling app
  - So that I can create schedules of the students
  - I want to allow only the students and admins who are part of the app.

## Story Assignment

1. Zengqi
2. Sai
3. Arunima
4. Joseph

## Story Tasks

Create Cucumber/Rspec tests for each story as appropriate.

Complete the integration of selecting blocks with backend logic.

Complete integration of selecting courses with backend logic.

Complete enabling only users in DB to be able to login.

Complete the integration of adding courses to the database.

Ensure code coverage remains above 90%.

Give a full demo of each story with the client, collect feedback, and decide on the direction for Sprint 5.

## Stretch Goal

Since 2 of the stories are from the last sprint, the stretch goal is mostly the same. If time permits, integrate the logic for the prerequisite requirements in course registration and change mock data in course registration form to fetch data from the database.

# User Stories

User story 1 (5 points)

## Register for courses from the block selected #21

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User story 2 (5 points)

## Change mock data in course registration form to fetch data from data #18

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User story 3 (5 points)

## Add courses to Database #15

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Verify all the courses and figure out a way to add courses to database. i.e. via excel or via UI

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## User story 4 (5 points)

### Enable only users in DB to be able to login into App. #17

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