

Dataset

We are using the course information for Fall 2024 registration pulled from the hyperschedule github repo. There are around 2000 courses listed. We are also using the athletics calendars from PP athletics and CMS athletics. We also have the general practice schedules for PP swim, PP cross country, and PP soccer. All of the datasets have been uploaded to our github repo.

Problem

Our project will attempt to solve the scheduling conflicts faced by student-athletes whose academic and athletic commitments often overlap and lack of schedule clarity between coaches and athletes. These issues are not handled by existing tools such as Hyperschedule or Apple Calendar which are not optimized for sports teams, making it difficult for coaches to track athlete availability and for athletes to coordinate effectively. To present a solution to this, we will build a user interface that integrates both academic and athletic calendars. Features include role-based access; coaches can view their student-athletes schedules and distribute their practice schedule to athletes, while athletes only see their own. We will also include a conflict detection feature that flags overlapping events. Users will be able to filter non-conflicted classes and add them to their calendar.

Part 0 Check-in Slides

📄 Team Sync Pt 0 Check In Slides

Grading Contract

For a C (to pass the final project):

- Completed PDF write up (including needfinding results and algorithmic & affordance analysis)

- Valid dataset file with 10-999 entries

- Github Repo with a README on how to run the code

- At least 1 data structure used and at least 1 working feature (TODO: Describe what the data structure is and what the feature will be (likely your project's most important feature))

- Adding new event to a schedule

For a B:

- What is required for a C, and

- Valid dataset file with ≥ 1000 entries

- Github Repo that details your custom data structure's public API

- At least 2 working features (TODO: What features?)

- Conflict detection

For an A:

- What is required for a B, and

Github Repo that details usage examples

Your code has good style, JavaDocs, and comments

At least 4 working features (TODO: What features?)

- Role-based access
- Only view classes based on input parameters
 - Practice schedule, class department, course number

For an A+ (bonus):

- making it work for multiple sports
 - this would require new hashmap for every different sport
- coaches can edit individual athlete's schedule

Thoughts and Worries

- Are these features valid?
- Does our data that we made / uploaded look readable / what it should look like if we want to implement the above features?
- Any additional advice or suggestions for us?