

Project Plan

Proof of Concept

For the proof of concept, we want to have the barebones user management system set up (user sign up, in, out, settings, etc). In addition to this, we want to be able to input preferences on the front end and send it to the backend to process a roster through stable matching. This will show that our idea for rostering does work. Security will be handled by everyone throughout the entire process.

- User sign up / sign in / sign out / user settings
 - Frontend - Yolanda
 - Backend - Faaya
 - Database design - Lesian
- Page to enter in the preferences - Yolanda
- Backend stable matching algorithm - Lesian & Victor

Minimum Viable Product

For our minimum viable product, we want to create the basic framework for the app and demonstrate the functionality with a single student group for a given admin user in both the sign up phase and the announcements phase. Therefore, in order to demo the product from beginning to end, the backend will have to be manually reset. For the announcements, this part just includes aggregating all the announcements from different teams that members are in.

- Student group page (allows admin to add teams, team leaders, and advance phase)
 - Frontend - Yolanda
 - Backend - Faaya
- Team / member preferences
 - Frontend - Yolanda
 - Backend - Lesian
- Dashboard (list of announcements)
 - Frontend - Yolanda
 - Backend - Victor
- Team page (team leader can post/edit/delete announcements)
 - Frontend - Yolanda
 - Backend - Victor

Finished Product

For our finished product, we allow users to create and join groups.

- Create a group
 - Frontend - Yolanda
 - Backend - Lesian
- Join a group

- Frontend - Yolanda
 - Backend - Lesian
- Build out student group page (admin can view/edit entire team/group roster)
 - Frontend - Yolanda
 - Backend - Victor
- Build out team page (team leader can view/edit entire team roster)
 - Frontend - Yolanda
 - Backend - Victor
- Tags backend functionality - Victor
- Filter by teams and tags on front end - Yolanda
- Making create announcement more sophisticated (add tags, add video, etc.) - Yolanda
- Backend functionality to support whether or not a user has seen a post - Lesian
- Frontend to show which announcements users have and have not seen - Yolanda

If anything goes wrong

If we find that we were too optimistic for this project and won't be able to finish on time, we'll start cutting back on functionality. First, we will make it so that we won't have other options for the matching process. As in, all teams and members must go through the stable matching process. For the announcements section of the application, one functionality that we could drop if we run out of time is the filtering. All announcements will just be aggregated by dance and displayed in time order.

Additional functionality

In the rare case that we have more time to work on this application, we also have a few ideas for additional functionality. One thing we thought about including was an easy way for team leaders to keep track of attendance at meetings, or in the case of a dance team, rehearsals. Another useful function might be a tool for collaborative manual rostering that would update live as team leaders update their rosters. Another useful function would be to allow admins to make announcements to the entire student group.

