

Phase 0**Title of project:** Intermural PSUplays**Team name:** Brogrammers**Team members:** Dev Ghodasara, Harsh Ramani, Myles Derr, Suraj Patel**Contact info:**

<i>Team members:</i>	<i>Email:</i>	<i>Phone Number:</i>
Dev Ghodasara	mmd5798@psu.edu	(717) 770-9052
Hash Ramani	hmr5295@psu.edu	(551) 232-4482
Myles Derr	djg5666@psu.edu	(570) 428-5110
Suraj Patel	sqp5731@psu.edu	(717) 877-3703

Description Paragraph:

Intramural PSUplays is going to provide platform to host sports tournaments within university campus. There will be a web application and a mobile application to support this program. Universities can use this app to have students sign up for sports and create teams. Users would be asked to create a profile and sign up to use the web application and mobile application. Users would be authenticated using college credentials and after creating profile, one can propose to have their own team. On the flip side there would be a web app for the admins hosting this tournament. Admin can approve a team after verifying the criteria. Once team is approved the owner can invite other friends/students to join their team. Detailed information would be collected to ensure smooth organization of tournaments, including medical data and emergency contact information in case of injuries. Once teams are created, they can join the sports they want to participate in. The app would send out notifications to students when the tournament will be hosted. Teams would be automatically scheduled for matches by the app using an algorithm. Special cases of constraints would be checked so that the team doesn't have two matches at same time, no two matches are scheduled at same place at same time, no two teams can host the same player, etc. The admin would be able to live stream games using either a camera or a smartphone, which is not decided yet but will be worked on as we go. Along with a live video feed that the students would be able to stream, there is also going to be a live score board that the admin would be responsible to update as the game progresses. This score board would be updated in real time for the students to view and track. Furthermore, the admins can put in match statistics such as win or lose to evaluate player and team performance. App would be complicated in terms of use of database and retrieving information for match scheduling and other functionalities.

Brief Description of Roles:

- **Person1:** Responsible for the front-end for web application and testing.
- **Person2:** Responsible for back-end, including an automated scheduler for a web application.
- **Person3:** Responsible for Database to assure all constraints are set to avoid conflicts. Live video feed setup using either a camera recorder or a smart phone.
- **Person4:** Responsible for back-end, including an automated scheduler for a mobile application. This person will also be responsible for front-end for mobile application.

These duties are allocated to assure completion of this project, adjustments will be made to assure proper functionality.

Project Advisor: Dr. Hien Nguyen

GitHub Repository: <https://github.com/bhochu/Capstone>