

ROSTER MOBILE APPLICATION

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Notes:

PID = Player Identification = 15 bit char value.

TID = Team Identification = 15 bit char value.

DB = Database (i.e our Roster SQL database).

User = Person using the app, and their current state (Captain of team or not).

OnCreate = The state of the activity when it is first started up.

1.1 – Home Activity

Upon first time opening application the user will be forced into a register page only asking for necessary player information i.e

Name

Picture (Future Use)

Upon successful completion a random PID is generated, and saved to the app, for future DB usage.

This information is sent to the Player table in database, and the player is sent to the Main Activity

After completion, the user only ever sees the main page upon opening.

The Main page has a sliding menu, from which the user can select options.

The Main page will display any Updates sent from team captains.

The Main page has a “Next game preview” which will display the next event on their schedule

1.2 Create Team Activity

Activity for user to create a team

The user will fill out the form (Name, UserName, Sport, Team Description)

* Team logo can be added later

Clickables:

CreateTeam button

- The User who created the team will automatically be designated captain.
- Upon clicking all form information is sent to the DB, filed under the Team table.
- Upon clicking a randomly generated TID is generated, and sent to the DB.
- Upon clicking the user is directed to the View Team (Captain View) page.

1.3 View Team Activity (Captain View)

View a team with superuser options.

The activity will display

- Team Name – Label
- Sport - Label
- Next Game Preview – Label
- Add Player - Button
- Roster – List View of players
- Type Ppdate – TextBox
- Send Update - Button

As super user the captain will have the ability to edit the roster and have options to

- Delete a player
- Add new players

Clickables:

Add Player

- Button to add player, prompts User to search for a players Username

All players in the list view will have a buttons attached to

- Delete, which will remove the player and refresh the list

Send Update

- Upon clicking a message will be sent to all players on the team and will be displayed on any users home page under updates.
- All Players should receive a notification on their phone as well.

1.4 View Team Activity (Player View)

View Team as a regular user.

The activity will display

- Team Name – Label
- Sport - Label
- Next Game Preview – Label
- Leave Team - Button
- Roster – List View of players

The User will only be able to view a roster.

Clickables:

Leave Team Button

- Upon clicking the User will be prompted to verify decision
- If 'Yes' is selected, the User will drop their affiliation with the team.

1.5 View All Teams Activity

View all the teams a user belongs to

The activity will display

- List view of all teams
- All list items will be clickable

The list will display

TEAM NAME – LOGO * clickable

TEAM NAME – LOGO * clickable

TEAM NAME – LOGO * clickable

TEAM NAME – LOGO * clickable

1.6 View Schedule Activity

View the current month and all upcoming games

The activity will display

- A calendar of the current month
- Days that have games on them will be highlighted
- Any highlighted day is clickable
- If a day has multiple games, the user will be given the option to select the game of choice

OnCreate:

The app will do an SQL query on the Team table for the all PID -> TID mapping

Once all TID's are grabbed, the app will query on the games table for all current month dates applying to the TID's.

Notes:

Gamedays can have color coordinations for whether or not the User has specified if they're going, not-going, or undecided.

1.7 View A Single Game Activity

View a selected game.

The activity will display

- Team Name – Label
- Time of the game – Label
- Location of the game – Google API of location
- Are you playing? Buttons/Radio/Switches
- List of players that are playing - ListView

OnCreate:

- Get the game info from DB (games table)
- Get the list of players that will be playing
- Populate activity with DB information
- Populate ListView with players that are playing

2.1 Tables

Tables necessary for app functionality

Team.table – Table to hold all team information

Player.table – Table to hold all player information

Game.table – Table to hold all information for every game a team has

Roster.table – Table to list a teams rosters (players on that team)

2.2 Relation Database Schema

Team

<u>TID</u>	Captain	Sport			
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* Captain is a PID reference to the Player table

Player

<u>PID</u>	Username	Name	Picturelocation		
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Game

dateofgame	<u>Team</u>	Confirmed	Notplaying		
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*Team is a TID reference to the Team table

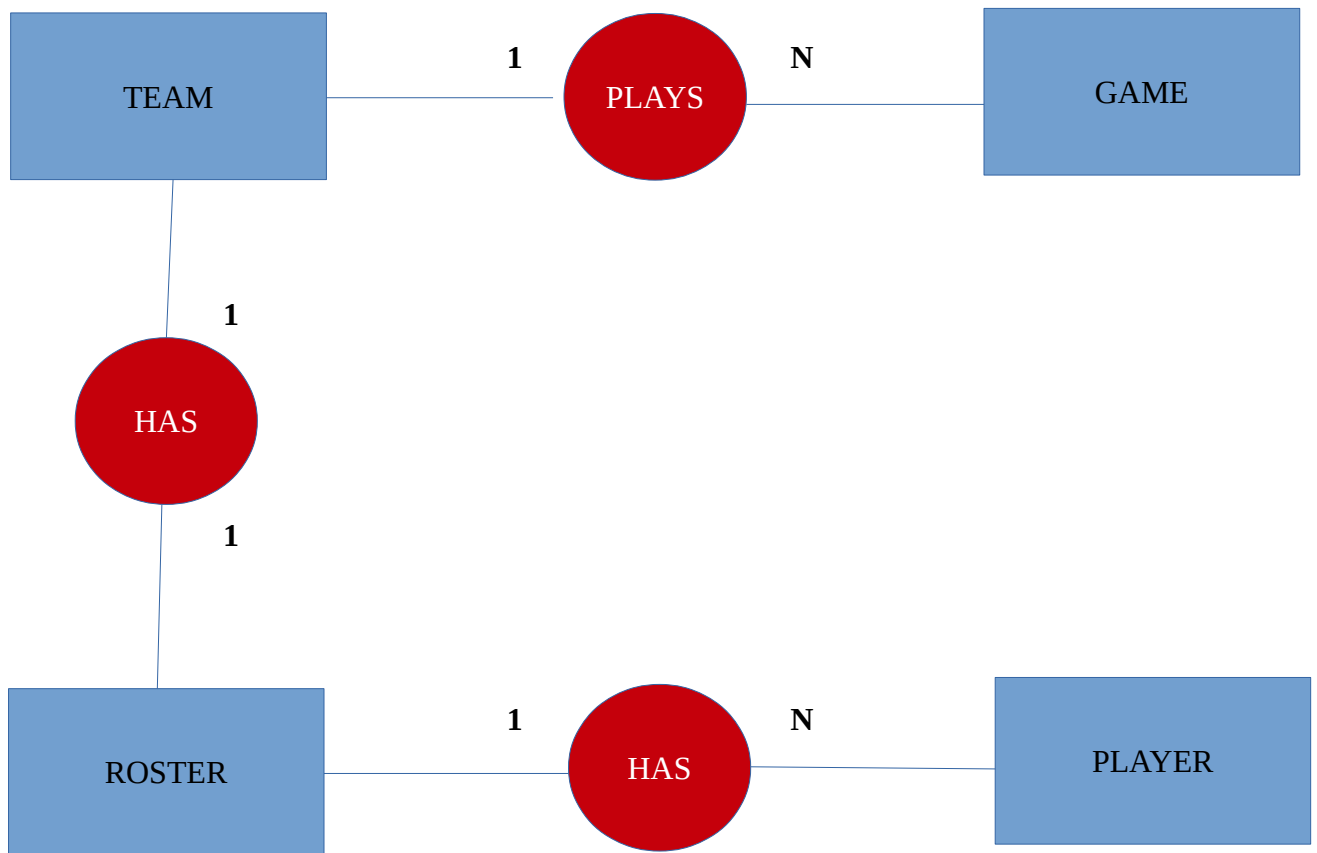
Roster

<u>PID</u>	<u>TID</u>				
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* PID is a foreign key referencing the Player table

* TID is a foreign key referencing the Team table

2.3 ER Diagram



NOTES:

Users will be sent gameday updates on their phone.

i.e. on a game day all players on the team will receive a notification on their phone.