
Design Document for Stat Sheet Stuffer

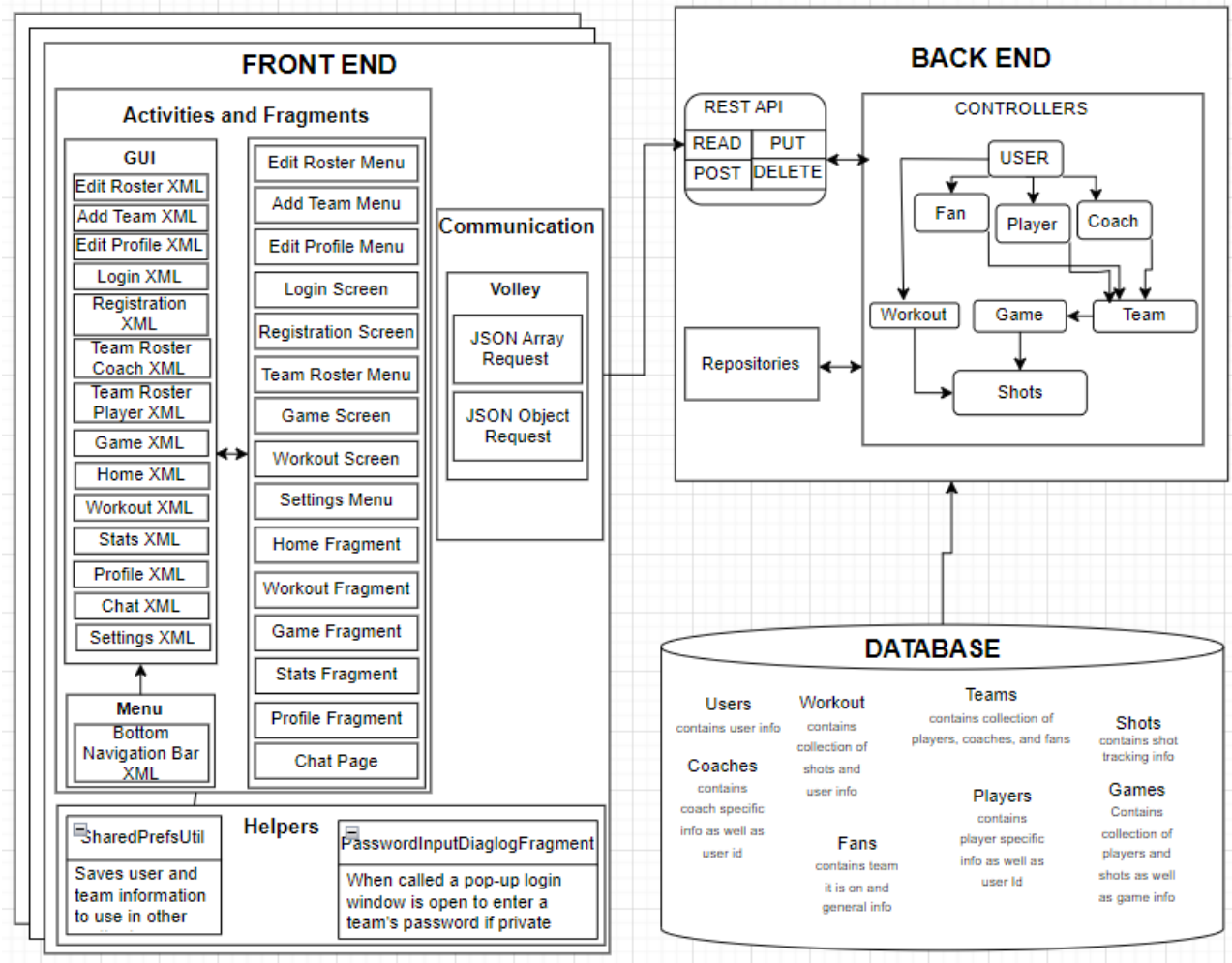
Group JK_224

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Front End (not fully implemented yet)

Home Page

XML:

- Buttons with all the teams a user follows
- Create a Team Button
- Join a Team Button

Description: Clicking one of the team buttons will send the user to a screen with the teams roster. By clicking create a team button the user is able to type in a team name to send a POST request to the server. By clicking join a team button the user will be able to search a team to join by sending a GET request from the server and a PUT request to put the player in the teams players list.

Team Roster

XML:

- TableLayout with player information
- Chat Button
- Back Button
- Edit Roster Button (if coach)

Description: After clicking a team button in the home page the user is sent here where they are able to view the team roster. By clicking the chat button the user can open the team's chat. By clicking the back button the user can return back to home. If a user is a coach of the team they are viewing they have a edit roster button to some player information and edit the teams settings

Backend

Communication

For our backend we mostly use mappings for communication with the database, these mappings use different url's based on the desired operation. These mappings include:

- Get: This allows us to retrieve information from the database, usually using some value like the id of an object.
- Post: This allows us to add a new object to the table, this generally creates the object and sends it to the database.
- Put: Takes existing objects and modifies the table based on the specified request, in our case either applying relations to objects or updating object fields.
- Delete: Removes an object from the database based on an id. Can remove lists of objects as well.

Classes

The classes of objects is where all the mappings are used to add, update and modify the database. These are also how the frontend communicates with the database:

Users: This has a many to many relation with teams, and a one to many with workouts.

Teams: has the many to many mentioned above, and a one to many with players, fans and coaches.

Players: Just has the many to one relation with a team.

Coaches: Also only has the many to one with a team.

Fans: has a many to one with a team.

Games: This has a one to many with a team, and a one to many with shots.

Shots: just has a many to one with games.

Workouts: has a many to one with a user, and a one to many with shots.

