

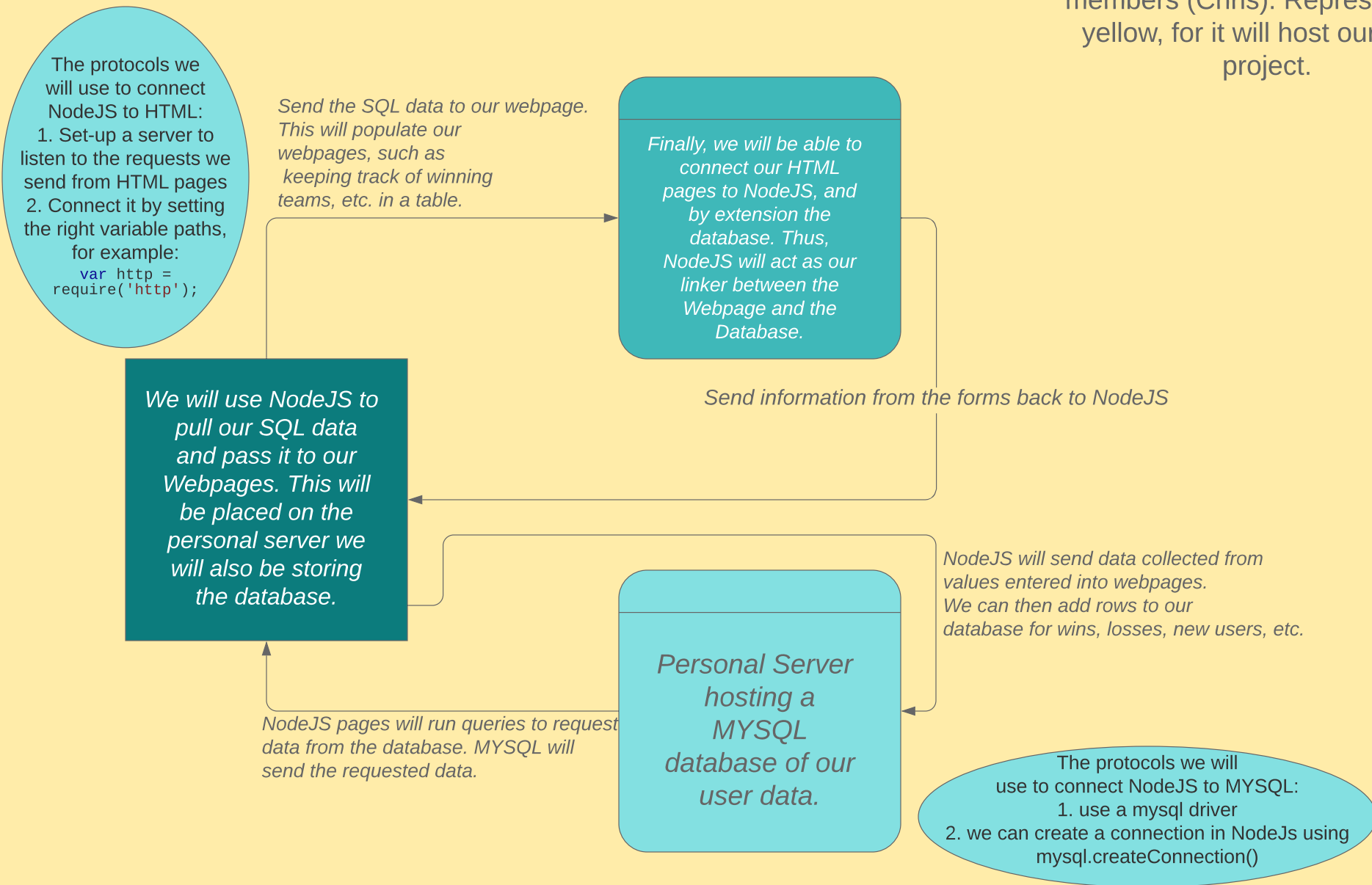
**Project Milestone 4**  
**Group 5 - Depressed Umbrella**

Criteria	Details
Revised List of Features	<p>Organizer Account has now become a smaller role:</p> <ul style="list-style-type: none"><li>• Creates a league</li><li>• Sets maximum number of teams &amp; number of players on each team</li></ul> <p>“Player” has now been split into 2 types: Coach and Team Member</p> <ul style="list-style-type: none"><li>• Coach can create a team and records scores, which must be approved by another coach (we will create forms)</li><li>• Team Members can join teams (until capacity)</li></ul> <p>Bracket Generation has stayed the same</p> <ul style="list-style-type: none"><li>• Randomly generates brackets for team competitions, dynamic, so different numbers of teams can compete against them</li></ul> <p>Visualization if time permits:</p> <ul style="list-style-type: none"><li>• Where teams are in their brackets, we will have a bracket image with the teams in their respective places.</li></ul>
Architecture Diagram	Included at end of file
Front End design	Included at end of file

Web Service Design	<ul style="list-style-type: none"> <li>• We do not plan on using any 3rd party Web Services. Data that we need to access will be stored in a mySQL database, and accessed using Node.js, then the frontend will be dynamically generated via Pug.</li> <li>• Since we are using Node.js in our index.js file, there will be JSON (JavaScript Object Notation) objects created in that file to handle data coming from the database, which will then be passed to various views that pug will take advantage of to dynamically render web pages containing information from the database.</li> <li>• Our project is going to take full advantage of the npm(node package manager) for Javascript. Npm packages are defined in files called package.json. In order for our project to work, we will have our project include the base Node.js packages, pug packages, express packages, and MySQL package. For editing purposes, we have also included the nodemon package, so we do not need to restart the server everytime our index.js file changes.</li> </ul>
Database design	Included at end of file

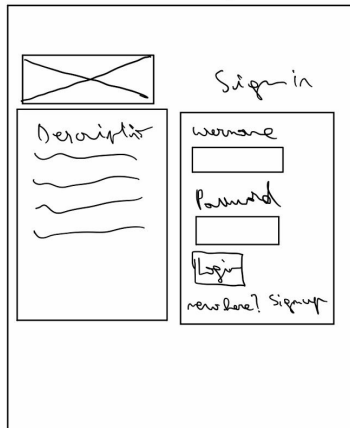
# Architecture Diagram

All data hosted on Personal Server owned by one of our group members (Chris). Represented in yellow, for it will host our entire project.



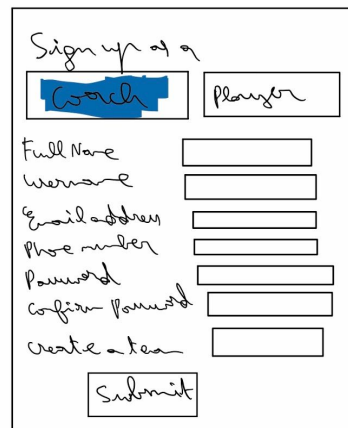
## Front End design

Login page



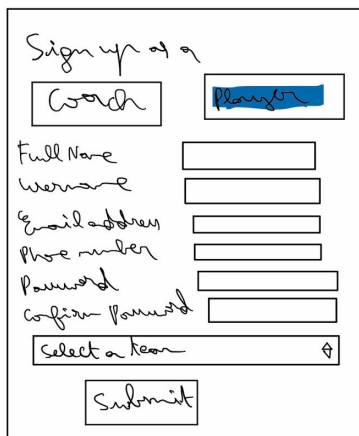
A hand-drawn sketch of a login page. At the top left is a placeholder for a logo (a rectangle with an 'X'). To its right is the text 'Sign in'. Below the logo is a box labeled 'Description' containing three wavy lines. To the right of this box are two input fields labeled 'Username' and 'Password'. Below the password field is a 'Login' button. At the bottom right, there is a link that says 'new here? Sign up'.

Sign up page



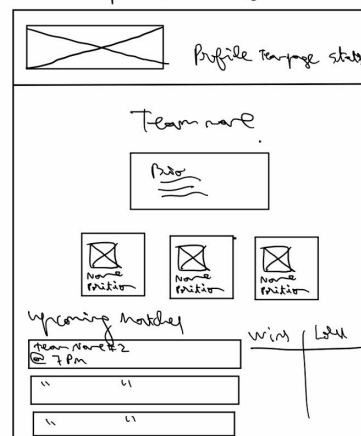
A hand-drawn sketch of a sign-up page. At the top is the text 'Sign up as a'. Below it are two radio buttons labeled 'Coach' and 'Player'. The 'Coach' option is selected. Below these are several input fields: 'Full Name', 'Username', 'Email address', 'Phone number', 'Password', and 'Confirm Password'. There is also a 'create a team' checkbox and a 'Submit' button at the bottom.

Sign up page



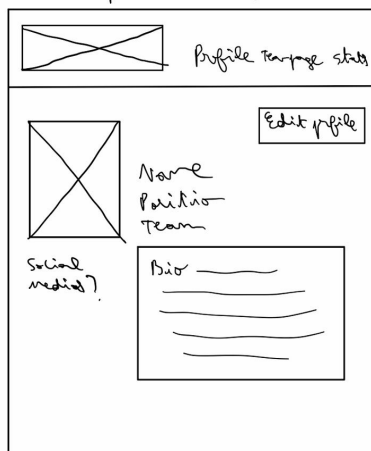
A hand-drawn sketch of a sign-up page. At the top is the text 'Sign up as a'. Below it are two radio buttons labeled 'Coach' and 'Player'. The 'Player' option is selected. Below these are several input fields: 'Full Name', 'Username', 'Email address', 'Phone number', 'Password', and 'Confirm Password'. There is also a dropdown menu labeled 'Select a team' and a 'Submit' button at the bottom.

Team  
Profile Page



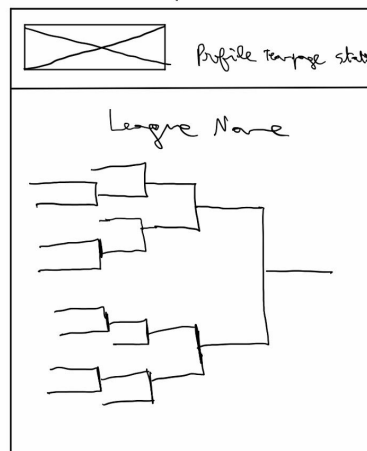
A hand-drawn sketch of a team profile page. At the top left is a placeholder for a logo (a rectangle with an 'X'). To its right is the text 'Profile Page stats'. Below the logo is a box labeled 'Team name' containing a bio. Below the bio are three small square icons, each labeled 'Name' and 'Position'. Below these is a table with the heading 'Upcoming matches'. The table has two columns: 'Team Name' and 'Time'. The first row shows 'Team Name 2' and '7 PM'. Below the table is a 'Win / Loss' column with a vertical line.

Profile Page



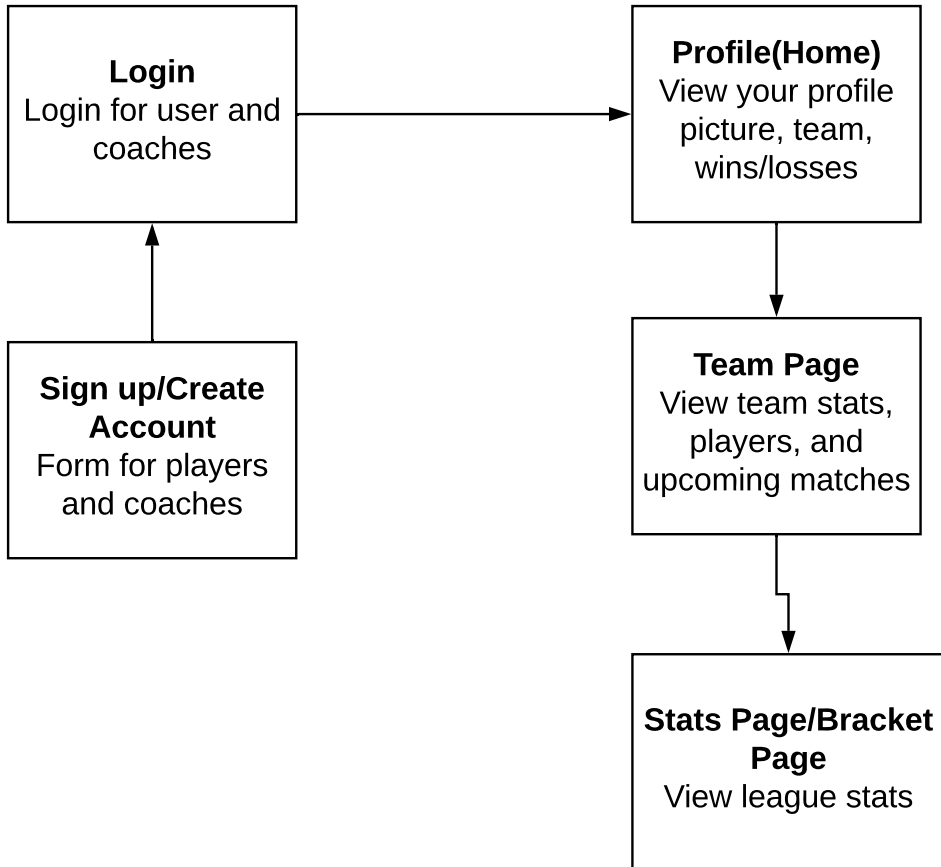
A hand-drawn sketch of a profile page. At the top left is a placeholder for a logo (a rectangle with an 'X'). To its right is the text 'Profile Page stats'. Below the logo is a box labeled 'Name', 'Position', and 'Team'. To the right of this box is an 'Edit profile' button. Below the box is a 'Bio' section with a text area. To the left of the bio is a 'Social media?' label.

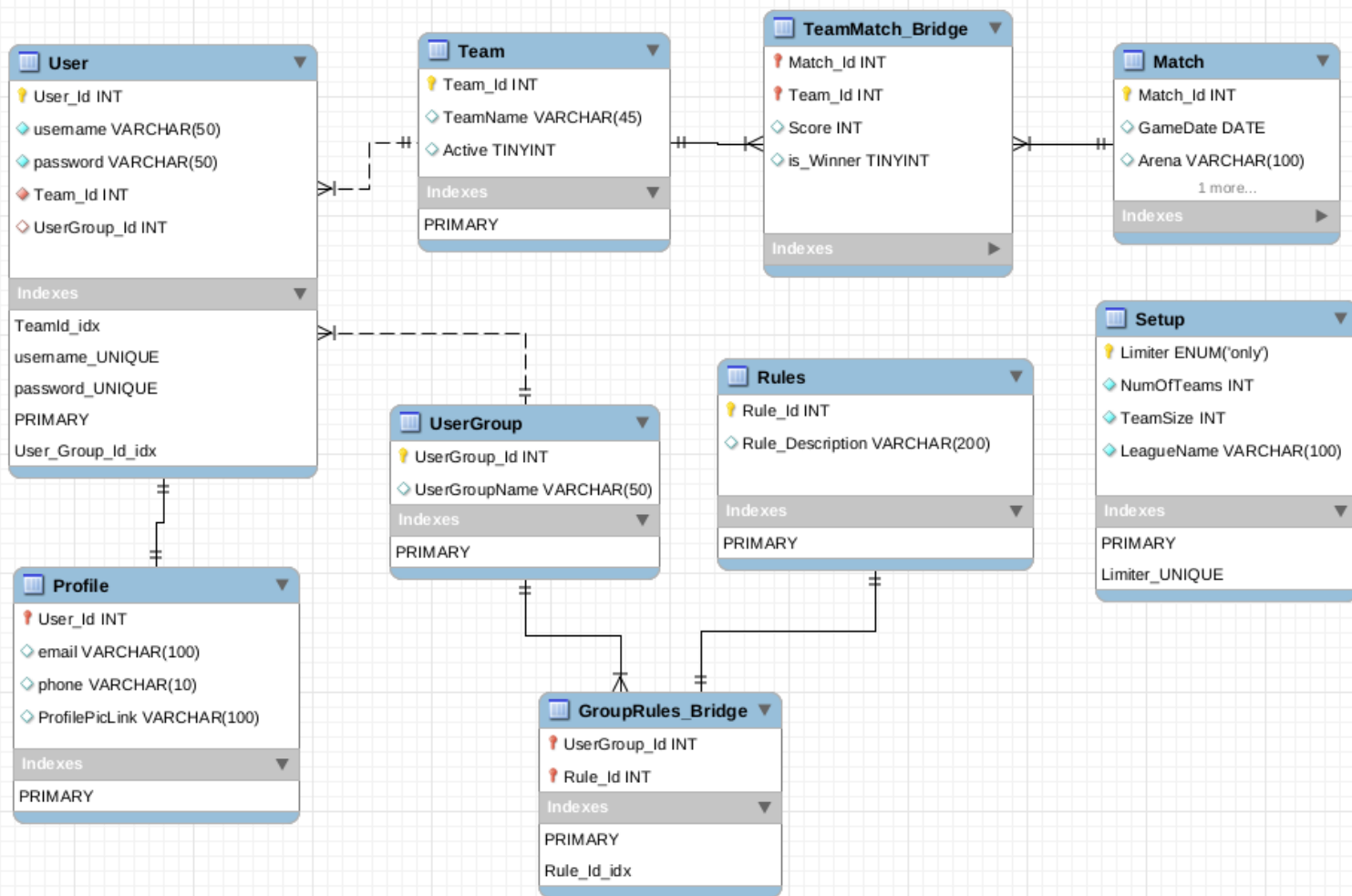
Bracket Page



A hand-drawn sketch of a bracket page. At the top left is a placeholder for a logo (a rectangle with an 'X'). To its right is the text 'Profile Page stats'. Below the logo is a box labeled 'League Name'. Below the box is a bracket diagram showing a tournament structure with multiple teams competing in a single-elimination format.

## Features





- Database Type: mySQL
- Design Logic:
  - Table:
    - **User**
      - Contains login information and what team user belongs to
    - **Profile**
      - Contains information used by player profile page
    - **Team**
      - Contains team information
    - **UserGroup/GroupRules\_Bridge/Rules**
      - Contains login rules, and various other permissions on what a userGroup can do
    - **Setup**
      - A table of variables that only need to be defined once, as such the limiter column, allows for one and only one row to be input into the table
    - **Match/TeamMatch\_Bridge**
      - Contains match information and results from match, as well as a Boolean (TINYINT) is\_winner, which is used for coaches to confirm or deny result submissions from other coaches