

All the third-party APIs and/or libraries that are used to run Application.

The program uses pure JavaScript, CSS, PHP, and HTML, with the addition of MYSQL, which was used through an administrative web application called phpmyadmin. It is run on a local web server, Apache.

Program Dependencies

The only program that is required to run the program is XAMPP, which provides the web server Apache that allows PHP and MYSQL to work properly.

The program will require the database to be uploaded to PhpMyAdmin in order to run properly.

How to install xampp

1. Visit the official XAMPP website (<https://www.apachefriends.org/index.html>) and download the latest version of XAMPP for your operating system.
2. Run the installer and follow the instructions. Only Apache and MYSQL are necessary to run the location.
3. Launch the XAMPP control panel and select the start button on Apache and MYSQL.
4. Copy and paste (<http://localhost>) into your web browser. This should direct you to the XAMPP dashboard if everything is installed and configured correctly.
5. If there are issues, check out one of the many XAMPP installation tutorials available on the web to properly configure XAMPP to your computer.

Details of Project and Improvements

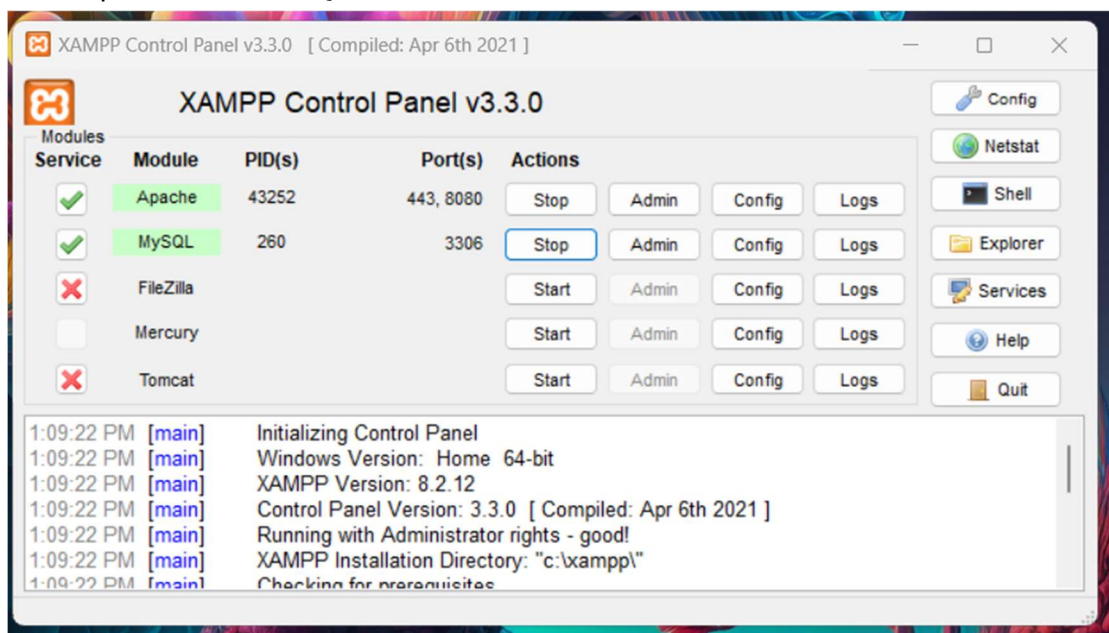
The volleybuddy web application is a website that allows users to create an account and create custom players and randomized/balanced volleyball teams. It allows users to edit and delete players whenever necessary and to create a custom number of teams easily and effectively.

The design was based on the low-fidelity prototype and developed using vanilla php, html, css, JavaScript, as well as MYSQL through myphpadmin. Based on user feedback, the following changes were implemented to make the high-fidelity prototype more complete than the low-fidelity prototype:

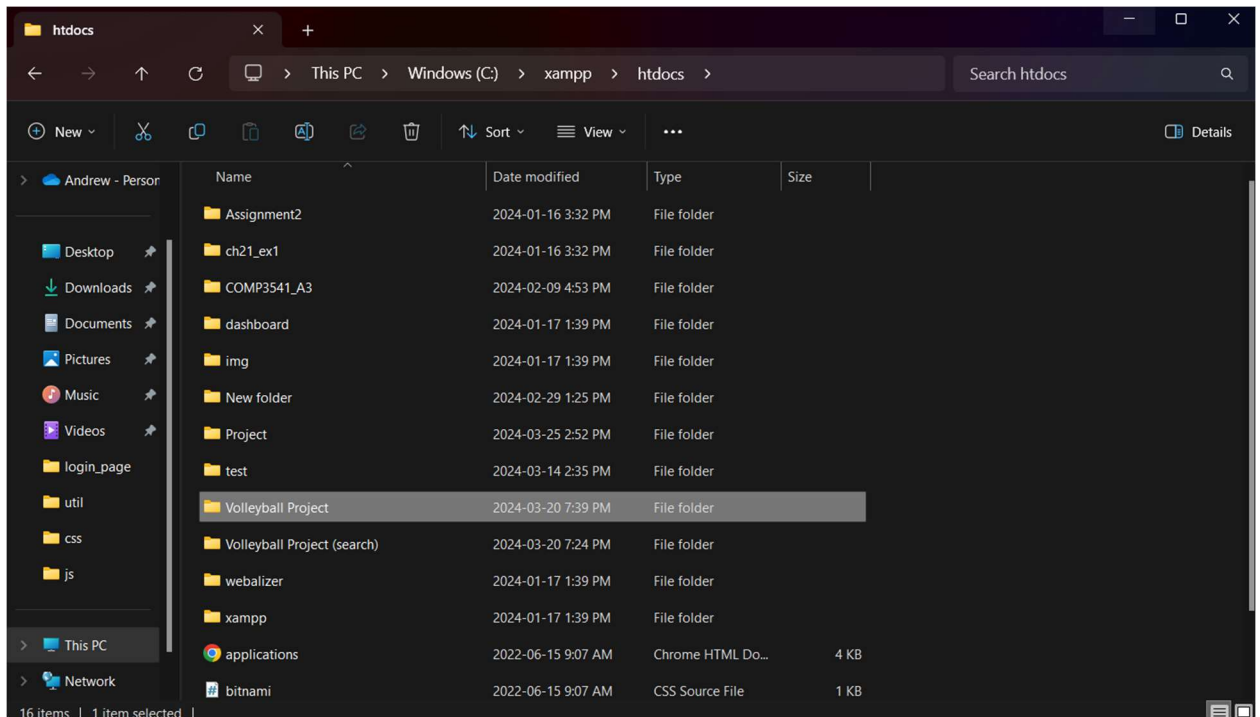
- Create a view player page that displays all players.
- Players' skills will be editable.
- Players' will be deletable.
- Better instruction and wording will be used in the Create Team page to show the user what the functionality is. Specifically, that they are generated randomly and not being handpicked.
- Users will be able to log in so that their players are saved and unique to their account.
- Order of elements such as the 'create player' and 'create team' links will be swapped to be more intuitive (specifically in the menu).
- Skills will be changed from 1-5 to 1-10 for more ranges of players.
- Icon will be clickable and refer to the home page.

How to Run and Use Application

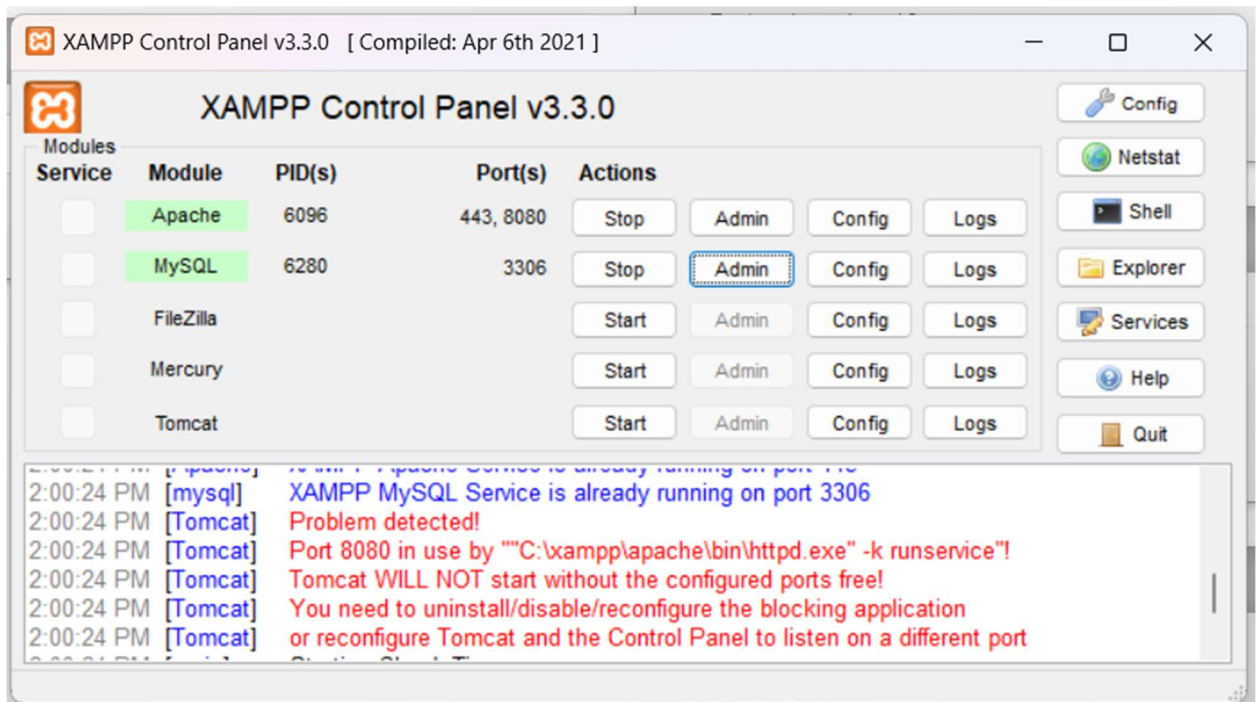
1. Download program files and XAMPP (follow steps above).
2. Start Apache and MYSQL in XAMPP.



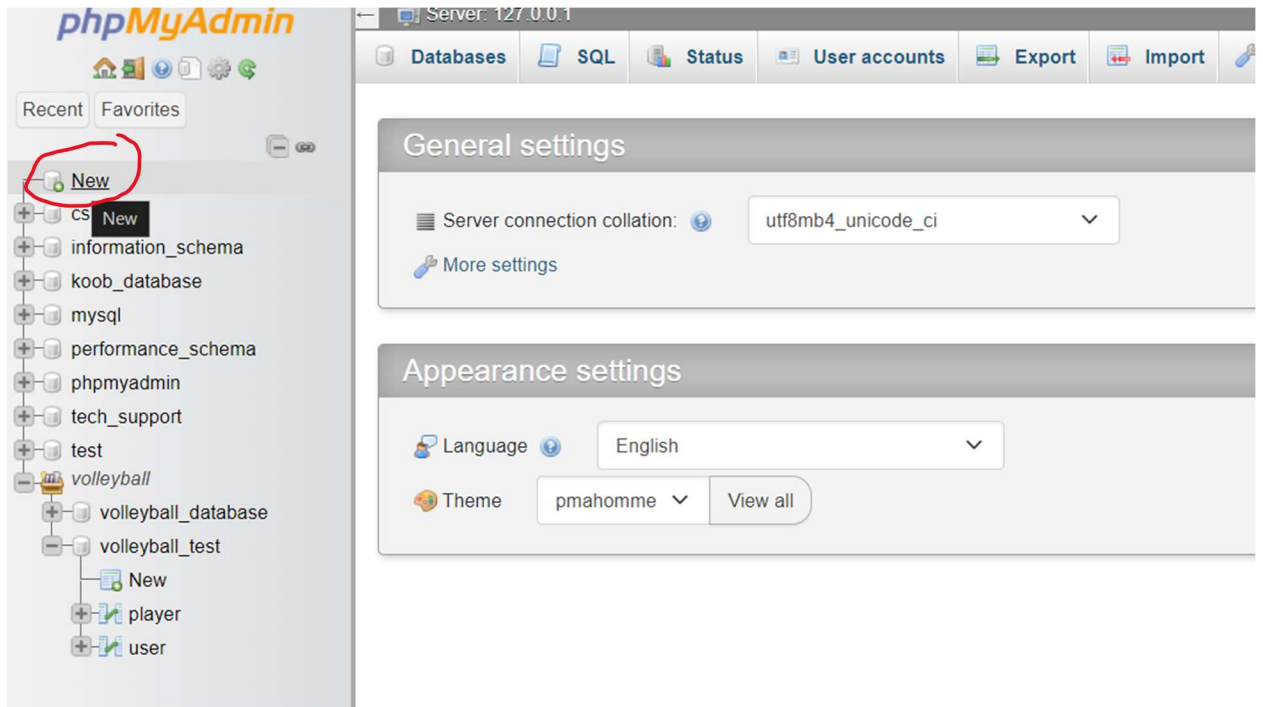
3. Add the program folder into the 'htdocs' folder in XAMPP.



4. Navigate to phpMyAdmin by selected the 'admin' button next to MYSQL in XAMPP, or by pasting the following into your browser's search bar
<http://localhost/phpmyadmin/>.






5. Click on New to create a new database.



6. Name the database “volleyball_database” and click “create”.











Databases

 **Create database** 

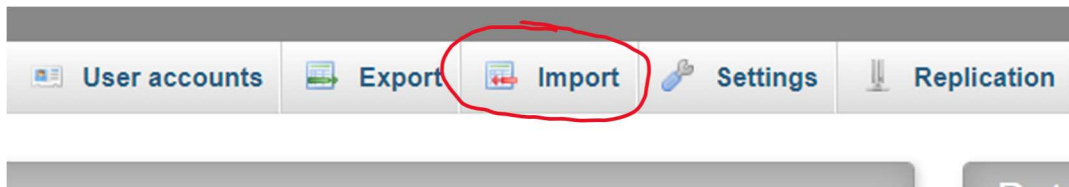
☐ Check all

 Drop

	Database	Collation	Action
<input type="checkbox"/>	csv_db 8	utf8_general_ci	 Check privileges
<input type="checkbox"/>	information_schema	utf8_general_ci	 Check privileges
<input type="checkbox"/>	koob_database	utf8mb4_general_ci	 Check privileges
<input type="checkbox"/>	mysql	utf8mb4_general_ci	 Check privileges
<input type="checkbox"/>	performance_schema	utf8_general_ci	 Check privileges
<input type="checkbox"/>	phpmyadmin	utf8_bin	 Check privileges
<input type="checkbox"/>	tech_support	utf8mb4_general_ci	 Check privileges
<input type="checkbox"/>	test	latin1_swedish_ci	 Check privileges
<input type="checkbox"/>	volleyball_database	utf8mb4_general_ci	 Check privileges
<input type="checkbox"/>	volleyball_test	utf8mb4_general_ci	 Check privileges

Total: 10

7. Navigate to the 'import' tab in the navigation bar.



8. Choose File and navigate to the "volleyball_database.sql" and select it.

File to import:

File may be compressed (gzip, bzip2) or uncompressed.
A compressed file's name must end in **.[format].[compression]**. Example: **.sql.zip**

Browse your computer: (Max: 40MiB)

No file chosen

You may also drag and drop a file on any page.

Character set of the file:

utf-8

9. Scroll down and click “import”.

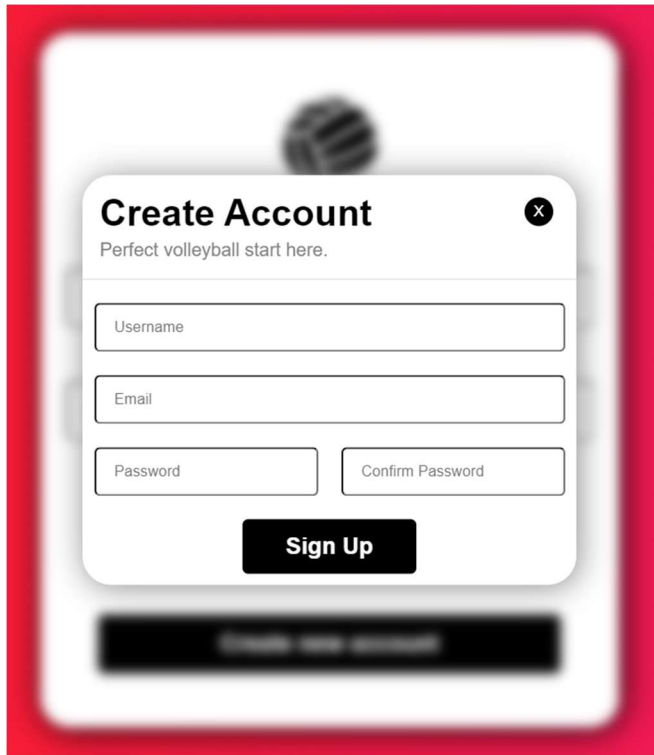
Format-specific options:

SQL compatibility mode:

NONE

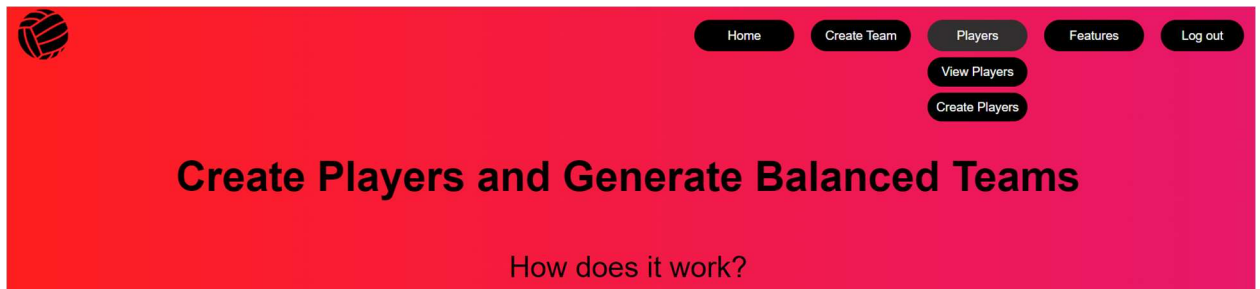
☒ Do not use AUTO_INCREMENT for zero values

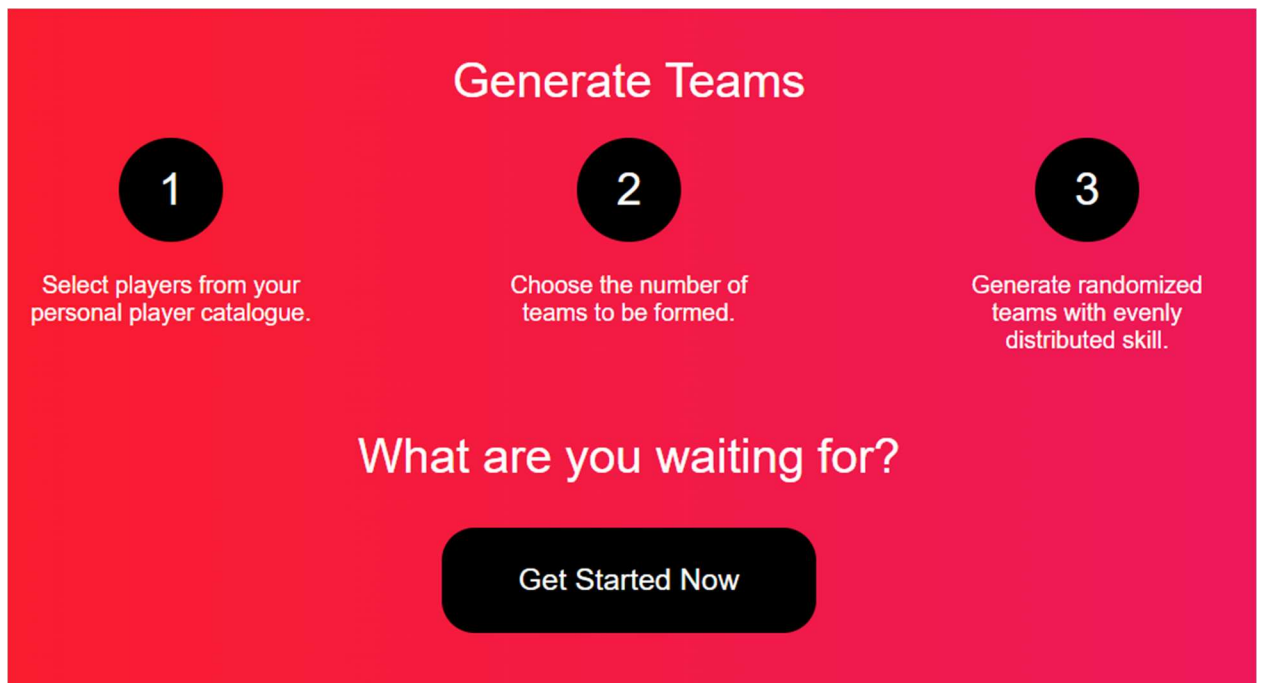
10. Open up your preferred web browser and search http://localhost/Volleyball_Project/view/login.php
11. Create an account by selecting the ‘create account’ button. Fill out the form and click ‘sign up’.



A modal form titled "Create Account" with a close button (X) in the top right corner. Below the title is the subtitle "Perfect volleyball start here." The form contains four input fields: "Username", "Email", "Password", and "Confirm Password". A black "Sign Up" button is positioned below the input fields. At the bottom of the modal, there is a blurred button that appears to say "Start Now". The entire modal is set against a blurred background of a volleyball court and is framed by a red border.

12. **Create players.** Navigate to the 'create players' window using the navigation bar or the 'start now' button at the bottom of the home page.





13. Create players reflecting real players skill levels. Use the guide for best results.

The image shows a 'Create Player' form on a red background. The form includes a 'Player Name' input field, a 'Create Player' button, and five skill level dropdown menus: Passing, Setting, Serving, Attacking, and Blocking, each with a value of 1. Below the form is a section titled 'Determining Skill Level' with the text 'Follow the suggested recommendation for best results'.

Home Create Team Players Features Log out

Create Player

Player Name

Passing 1

Setting 1

Serving 1

Attacking 1

Blocking 1

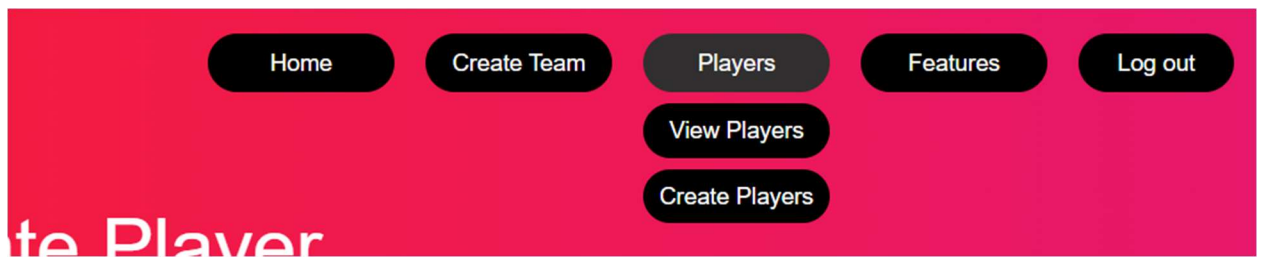
Create Player

Determining Skill Level





Follow the suggested recommendation for best results

Passing

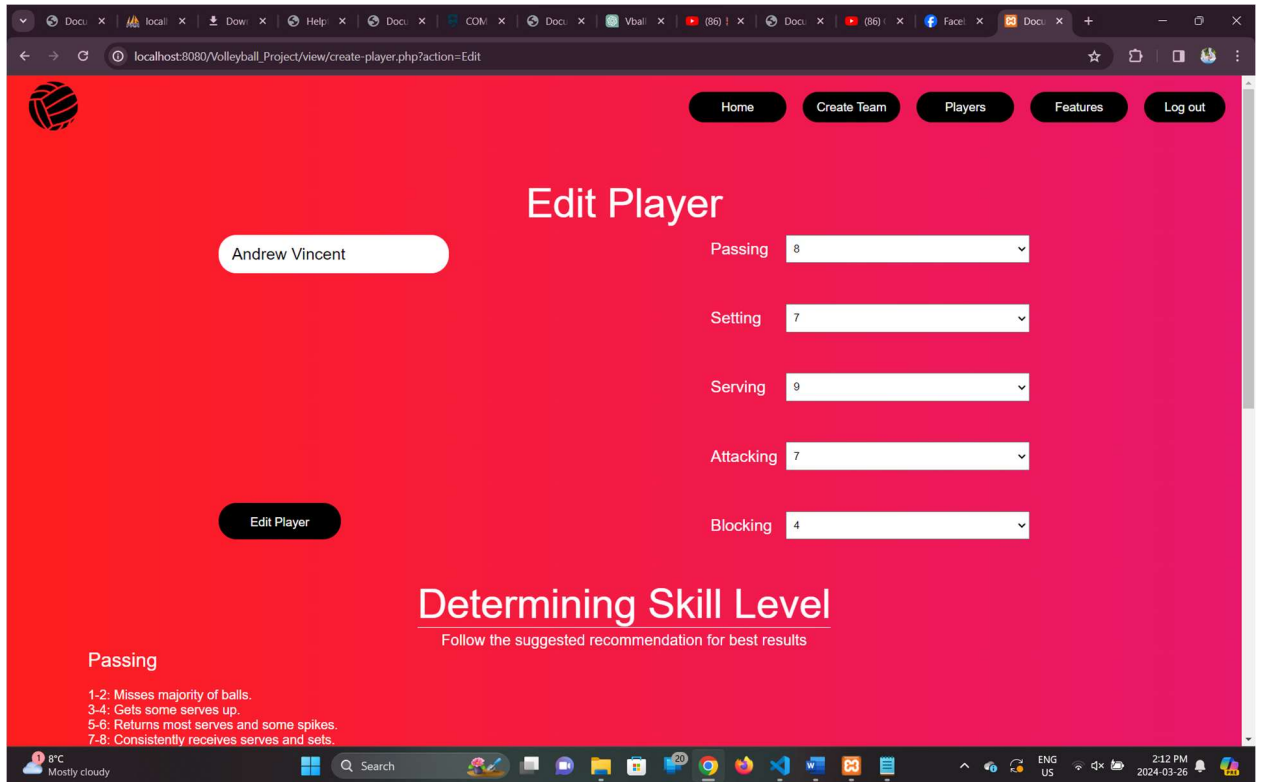
14. **View players.** To view players navigate to the 'view players' button under the 'Players' navigation button.



15. View all players from this menu. To delete players click the trash can icon. To edit players, click the edit icon.

Players						
Andrew Vincent						 
Passing 8	Setting 7	Serving 9	Attacking 7	Blocking 4		7.5
Angus Gardner						 
Passing 4	Setting 3	Serving 5	Attacking 4	Blocking 2		3.8

16. **Editing players.** To edit players, click on the pencil and pad icon. Adjust skill levels or name accordingly and click 'edit player' to save changes.



17. **Create teams.** Click on the 'Create Team' button in the navigation bar to create teams.



18. Select the players you want to be part of the teams generated.

Select players

- ☒ Andrew Vincent
- ☐ Angus Gardner
- ☒ Brad
- ☒ Briggs Earl
- ☒ Darcie Shurgelo
- ☐ Denis
- ☐ Emily Ducharme
- ☐ Emily Shurgelo
- ☐ John Smith
- ☐ Jordan
- ☐ kurk

19. Select number of teams.

Number of teams

2

20. Click generate teams and view the created teams at the bottom of the page.

Generated Teams

Team 1	Skill (9.3)	Team 2	Skill (12.3)
Andrew Vincent		Briggs Earl	
Brad		Darcie Shurgelo	