SafeBet

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Recitation 11 Team 01

Description of the project

Have you ever betted irresponsibly? Regretted a bet? Lost money and became furious? Well, our mission is to ensure that users engage in sports betting responsibly and with confidence.
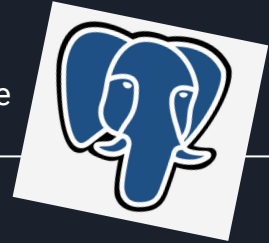
Our site is designed to pull data from Sports Betting sites and uses an algorithm to give you all possible bet pairs with guaranteed winnings using a Free Bet bonus bet.
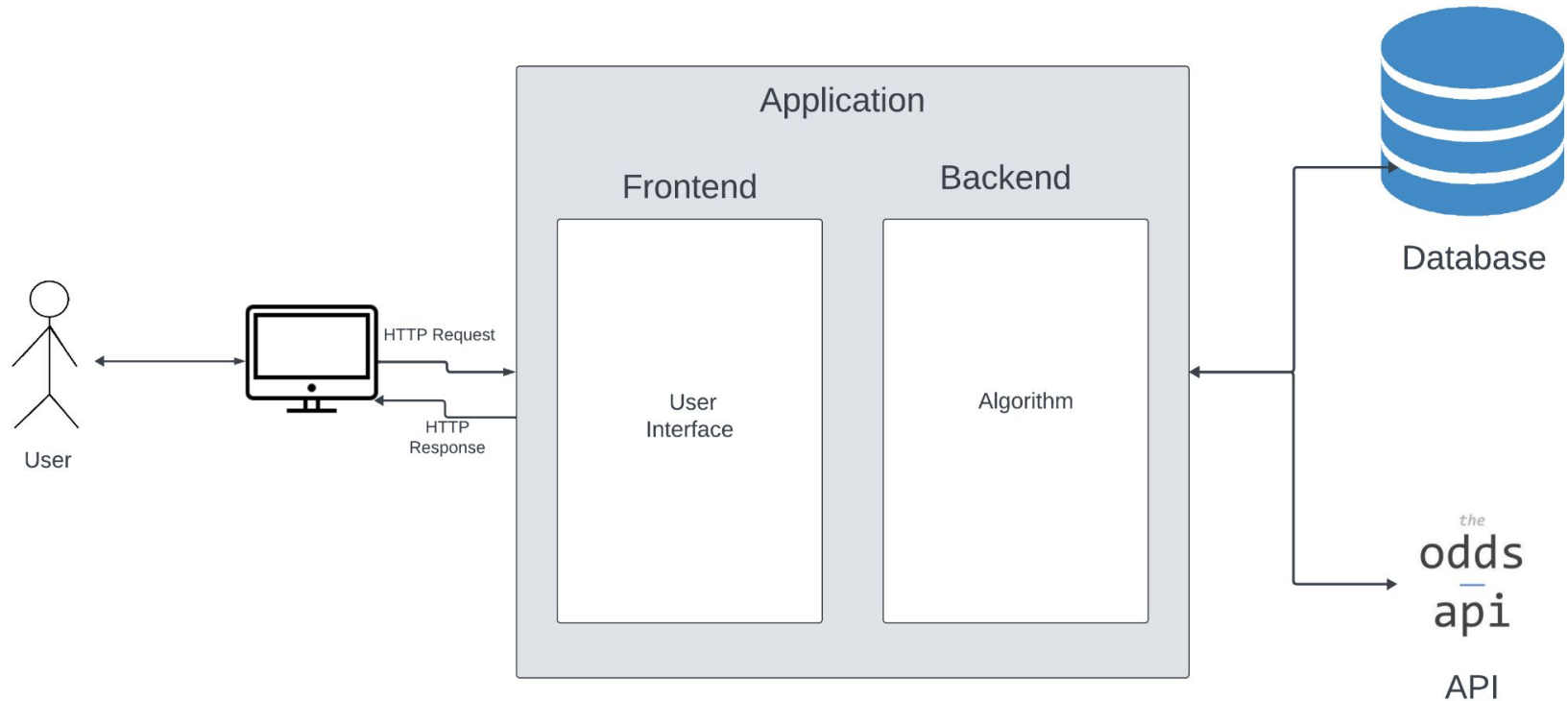
Tools Used to Create Safebet

- **the odds-api 4.5/5** - Retrieves real time odds for various sports and all available sportsbooks with those odds.

- **TalkJS 5/5** - Message implementation to be able to talk to an "expert" in this case the Administrator

- **Handlebars 4/5** - Templating tool for easy html structuring and data passing

- **Bootstrap 4/5** - CSS framework for responsive and intuitive styling

- **PostgreSQL** 5/5 - Relational database management system

- **Docker** 4/5 - OS Virtualization software to manage application infrastructure

Architecture Diagram

Challenges

1. Learning to use the tools at our disposal like GitHub, Docker, Handlebars, Bootstrap, etc.
2. **Improving readability.**
   - There was a lot of data to display and deciding an adequate format for display took some time
3. **User registration and login functionality**
   - Required tweaking to ensure consistent passing and no overlap between registration and login for one user
4. **Formatting!**
   - Getting divs, containers, tables, and other HTML tags to work together took a massive chunk of time. This could also fall under the "learning to use the tools" category.
5. **Applying the algorithm to the API data set**
   - There wasn't a simple solution to this due to only some sportsbooks having odds. The solution was to iterate through the desired sportsbooks, and then the available sportsbooks to create new data structures to store only the data we required.
6. **Adding bets and saving user history**
   - Required multiple iterations of the data model
7. **Displaying All Available Sportsbooks**
   - Needed to select one up front. This limited number.

Future Scope/Enhancements

1. **Getting a paid API**
   - Allows more calls to the api as well as access to historical data. This would allow the site to show users past games and their outcomes.
2. **Improving frontend look**
   - Currently the front end is very simple with primarily Bootstrap built in features. Future work would include more custom CSS and additional intuitive UI.
3. **Adding Additional Bonus Bet Calculations**
   - Free Bets are the only type of bonus bet viewable on the Safebet website. Future scope would include bets like "Risk Free Bets", "Bonus Bets", and various other bonuses on offer from the common sportsbooks.
4. **Allowing users to edit their history**
   - Controls like delete and edit for odds
5. **Integrate user accounts**
   - from betting sites to update bets/winnings. The ability for a user to place bets directly from our site or pull data from their respective sportsbooks would allow much more seamless user experience.

Demo our project