

Full-Stack Developer Homework Assignment: Online Betting Dashboard

Objective: Develop an online betting dashboard that displays a list of sports events, the corresponding odds for the events, and allows users to place bets. Use Node.js, PostgreSQL, React, and TypeScript for this assignment.

Features: 1. Backend (Node.js with PostgreSQL, Express.js):

Don't use decorators

Connect the server with a PostgreSQL database.

Create a table for sports events with the following columns:

event_id (Primary Key)

event_name (e.g., "Soccer: Team A vs. Team B")

odds (Decimal value, e.g., "1.75")

Seed the database with 5 sample sports events.

Implement an API endpoint /api/events to CRUD all the sports events.

2. Frontend (React with TypeScript):

Fetch and display the list of sports events from the API.

Beside each event, show a button or link to place a bet.

When the "place bet" option is clicked, it should open a modal or a new component to input the bet amount.

Components should be scalable.

No need for actual payment or confirmation - just a simple acknowledgment like "Bet placed successfully!".

Requirements:

1. Use TypeScript for both frontend and backend.
2. Style the dashboard with CSS or any CSS framework of your choice.
3. Pay attention to error handling (e.g., database connection issues, fetching API).
4. Write clear and maintainable code.
5. Imagine your writing a task which will require updates to scale.
6. Include a README with instructions to set up and run the application.
7. Include PostMan collections.
8. Make sure the code is clean!

Bonus (optional):

Implement authentication to the system.

Unit tests.

Docker.