



Backend Intern

Backend Task: ♟ Chess Tournament Management system

Duration: 3 days

Stacks accepted: NodeJS, Python/Django

Task Description:


You are required to build a backend system to manage a chess tournament. The system should allow users to register, manage players, create and manage tournaments, and keep track of the scores.

Requirements:


- **User Authentication and Authorization:**
 - Implement user registration and login functionality.
 - Use JWT for authentication.
 - Differentiate between regular users and admin users.
- **Player Management:**
 - Allow admins to add, update, delete, and view player information.
 - Player information should include name, age, rating, and country.
- **Tournament Management:**
 - Allow admins to create tournaments with specific start and end dates.
 - Each tournament should have a unique name and a list of participants.
 - Allow admins to assign players to tournaments.
- **Match Management:**

- Automatically generate pairings for each round based on the Swiss-system tournament rules.
- Allow admins to update the match results.
- **Leaderboard:**
 - Generate and display a leaderboard for each tournament showing the players' ranks, points, and other relevant statistics.
- **API Documentation:**
 - Document all the API endpoints using Swagger or similar tools

 Deliverables:

 Source code repository GitHub/GitLab

 Detailed README.md file explaining how to set up and run the project

 API documentation link or file

Evaluation Criteria

Code Quality: Clean, well-documented code with proper use of design patterns.

Functionality: Completion of all specified features and requirements.

User Experience: Intuitive and user-friendly interface.

Performance: Efficient and optimized code.

Testing: Adequate coverage of unit tests and proper handling of edge cases.