Mentorship Matching Platform

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December 2024

Overview

The Mentorship Matching Platform is designed to facilitate connections between mentors and mentees. Users can register, create profiles, specify their roles (mentor or mentee), and list their skills and interests. The platform allows users to send and manage mentorship requests. Users can view profiles of all other users and use a search facility based on skills. The project involves user authentication, profile management, matchmaking algorithms, and database integration.

Technologies Used

- **Frontend**: React.js, Bootstrap, react-toastify
- **Backend**: Node.js, Express.js, bcrypt
- **Database**: PostgreSQL
- **API Requests**: Axios, Fetch
- **Deployment**: Vercel for backend and Netlify for frontend

Application Features

User Registration and Authentication

Users can securely register, log in, and log out. The system handles input validation to ensure data accuracy and security. Passwords are encrypted using bcrypt.

Profile Setup and Management

Users can set up a detailed profile, including their role (mentor or mentee), skills/interests, and a brief bio. Profiles can be edited or deleted at any time. The profile data is stored in a relational database, with clear relationships between users and their mentorship connections.

User Discovery and Matchmaking

The platform includes a discovery feature where users can browse profiles, with filters skills/interests.

Mentorship Requests and Notifications

Users can send, accept, or decline mentorship requests. A notification system informs users of new mentorship requests and updates, ensuring a smooth mentorship process.

Database Integration and Security

The platform uses PostgreSQL to store user data, profiles, and mentorship connections. Sensitive information is encrypted and handled securely to follow best practices. The database structure ensures data integrity and prevents duplicates.

Edge Case Handling

- Input validation to prevent invalid data formats and security vulnerabilities.

- Duplicate prevention for profiles and mentorship requests.

- Graceful handling of scenarios where no mentorship matches are available.

Deployment

The backend is deployed on a free hosting platform such as Vercel while frontend on vercel. Used .env file so that Environment variables and API keys are securely managed, ensuring the safety of sensitive data during deployment.

Development Approach

The platform was built with a modular approach, separating concerns between frontend, backend, and database management.

Other Features

- If a user is not logged in, they are redirected to the login page. User information is managed using `useContext`.

- Duplicate mentorship requests are prevented.

- Only mentees can send mentorship requests to mentors.

- Mentors can accept or reject a mentee's request, and both parties can terminate the mentorship after it has been accepted. Mentees can also withdraw their requests.

- notification is automatically deleted once it is seen.

- When a user deletes his account, all its relationships with other users are also deleted

Deliverables

- **GitHub Repository**: https://github.com/nandeshboyz024/Mentorship-Matching-Platform

- **Live Version**: https://mentor-mentee-matching.netlify.app

Test User Credentials

Below are some user credentials that can be used to test the platform:

use your own credential for a better experience if you use these then do not delete account 😀

- **Username**: pinkeshm21   **Password**: pinkeshm21   **role**: mentor

- **Username**: sumitk21   **Password**: sumitk21   **role**: mentor

- **Username**: satyamg21   **Password**: satyamg21   **role**: mentee

IMPORTANT NOTE: *Only mentee can create a request.*