

Task Overview

You are required to build a **Habit Tracker Web App** where users can create personal habits, track their daily progress, and follow friends' progress for accountability. The application should demonstrate your ability to design, implement, and deploy a full-stack product independently.

Requirements

1. User Interface (UI) Design:

- Use a modern front-end framework (React, Vue, or similar) and a CSS library (Tailwind, Bootstrap, etc.)
- Required screens:
 - **Registration & Login** (user authentication)
 - **Dashboard**: list of user's habits with daily check-in buttons
 - **Friends' Activity Feed**: show streaks and recent activity of followed friends
 - **Create/Edit Habit**: form with habit name, frequency (daily/weekly), and category

2. Functionality:

- **Authentication**: Users can sign up, log in, log out
- **Habit Management**:
 - Create, edit, and delete habits
 - Track progress (mark as complete for the day/week)
- **Social Accountability**:
 - Search and follow other users
 - View a feed of friends' recent check-ins and streaks
- **Progress Tracking**:
 - Show streak counts and completion rate per habit.

3. Database Integration:

- Set up a relational database (like Postgresql) to store user information, habits, habit completions (with timestamps), friends / follow relationships
- Ensure proper relationships between users, habits and check-ins

4. Edge Case Handling:

- Handle basic edge cases such as:
 - Prevent duplicate habits with the same name per user

- Handle attempts to check in more than once per day/week
- Ensure users cannot follow themselves
- Validate required fields on forms

5. Deployment:

- Deploy the app (frontend + backend) to free hosting platforms (e.g., Vercel, Render, Railway)
- Provide a live demo link

Deliverables

1. **GitHub Repository:** A repository containing the source code
2. **Deployed Application URL:** A link to the deployed application where the functionality can be tested
3. **README.md:** A README file with setup instructions, the deployed URL, and any necessary environment variables or configurations.
4. **Documentation:** A short document (1 page) explaining the approach taken, any challenges faced, and how they were overcome.

Bonus Features (Optional, but will earn extra credit)

- Add habit categories/tags and filtering
- Add a leaderboard (rank users by streaks)
- Email or notification reminders for missed habits
- Containerize the app with Docker

Evaluation Criteria

- **Non Vibe-Coded:** Submissions coded with vibe-coding tools like Lovable, v0, etc. will be rejected
- **UI/UX Quality:** Clean, usable, responsive interface
- **Functionality:** All required features implemented correctly
- **Database Modeling:** Efficient, well-structured schema
- **Code Quality:** Readable, modular, documented code
- **Problem-Solving:** Handling edge cases and robustness

- **Deployment:** Working live demo, easy to run locally
- **Ownership:** Demonstrates ability to deliver an end-to-end product independently

Please submit your GitHub repository link, deployed application URL, and any documentation within 3 days of receiving this assignment.

Good luck!