Habit Hero – Full Project Documentation

1. Introduction

Habit Hero is a full-stack habit tracking application built using Django (backend) and React (frontend). The project allows users to create habits, choose categories, select frequency, mark them as completed, and delete habits. It was created as part of a full-stack development assignment.

2. Features

• Add new habits

• View all habits

• Select category and frequency

• Mark habit as completed / undo

• Delete habits

• Responsive UI built using React

• Django REST API for CRUD operations

3. Tech Stack

Backend: Django, Django REST Framework, SQLite

Frontend: React, Axios, React Icons

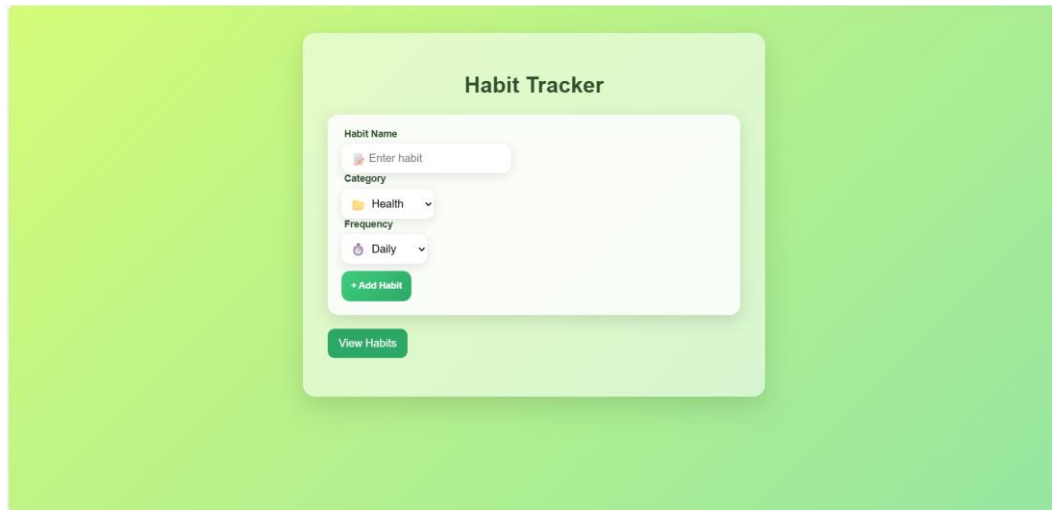Other: CORS for frontend-backend communication

4. Backend Overview (Django)

The backend exposes API endpoints for habit creation, retrieval, updating, and deletion. It uses Django REST Framework serializers and views to manage the data.
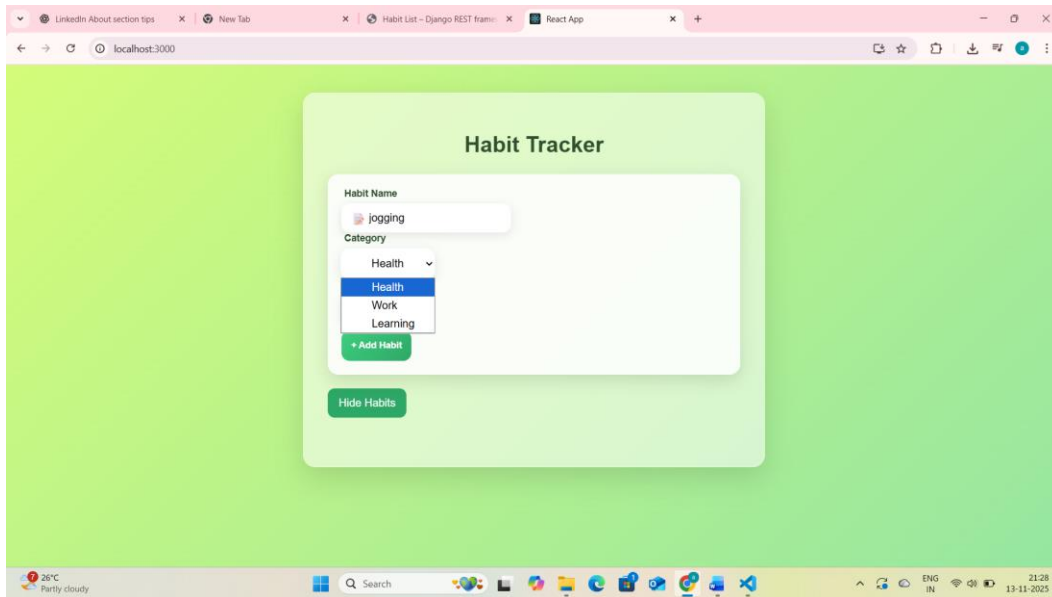
5. Frontend Overview (React)

The React frontend allows users to enter habit details and interact with the backend.
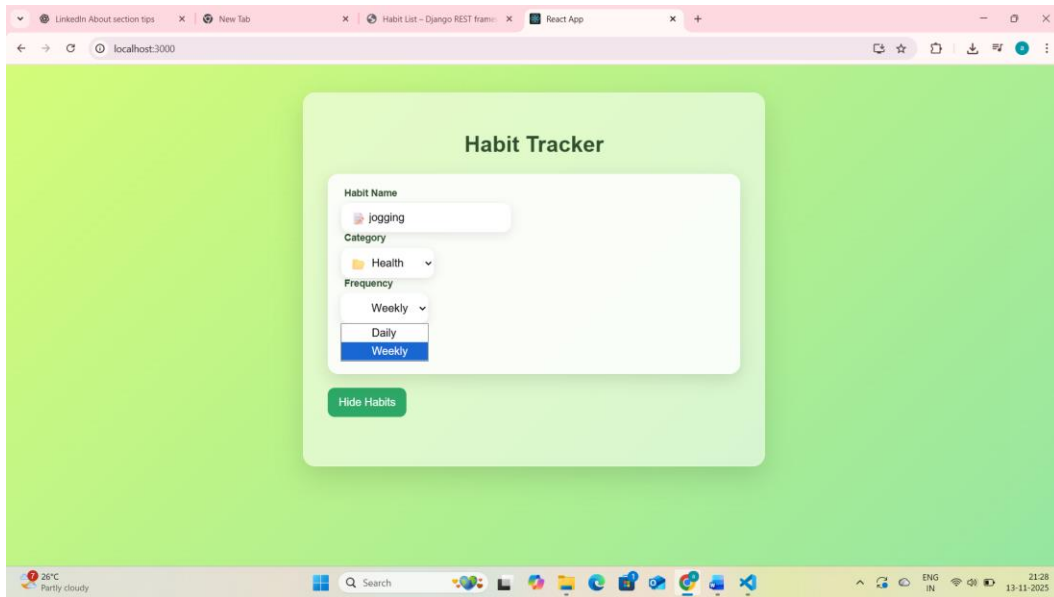
Below is the default UI when the app opens:

6. Habit Creation – Category Selection

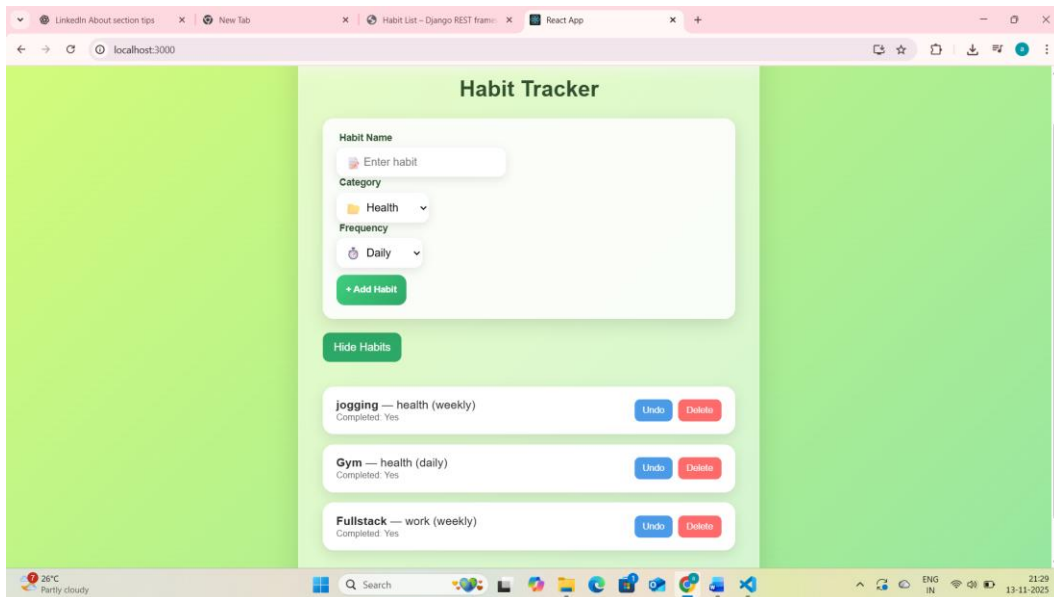When adding a habit, users can choose a category such as Health, Work, or Learning.

7. Habit Creation – Frequency Selection

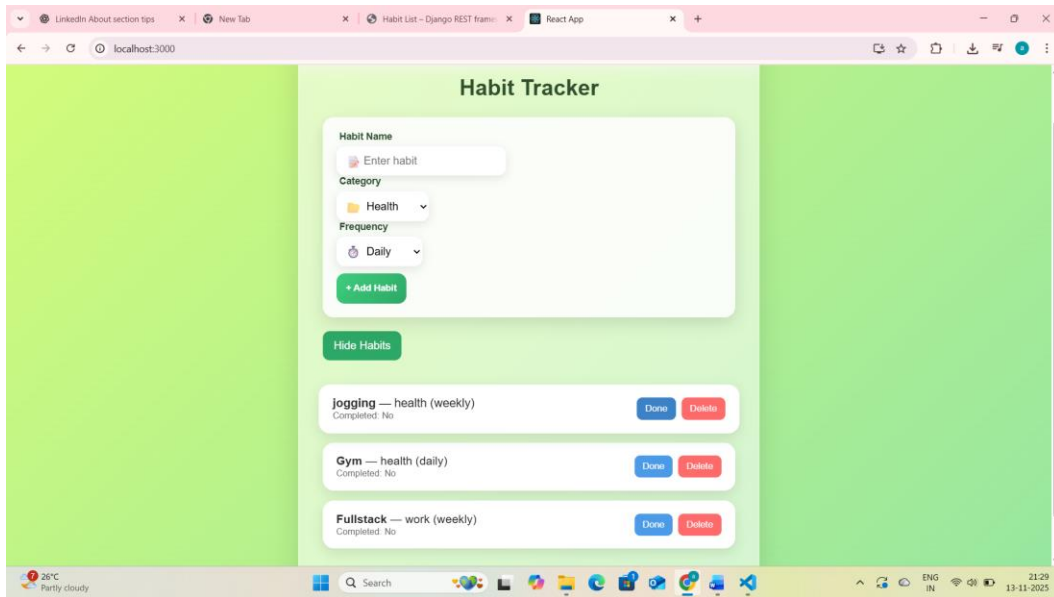Users can choose the repeat frequency (Daily / Weekly).

8. Viewing Habits – Completed: Yes

After adding habits, users can mark them as completed. The following screenshot shows all habits marked as completed:
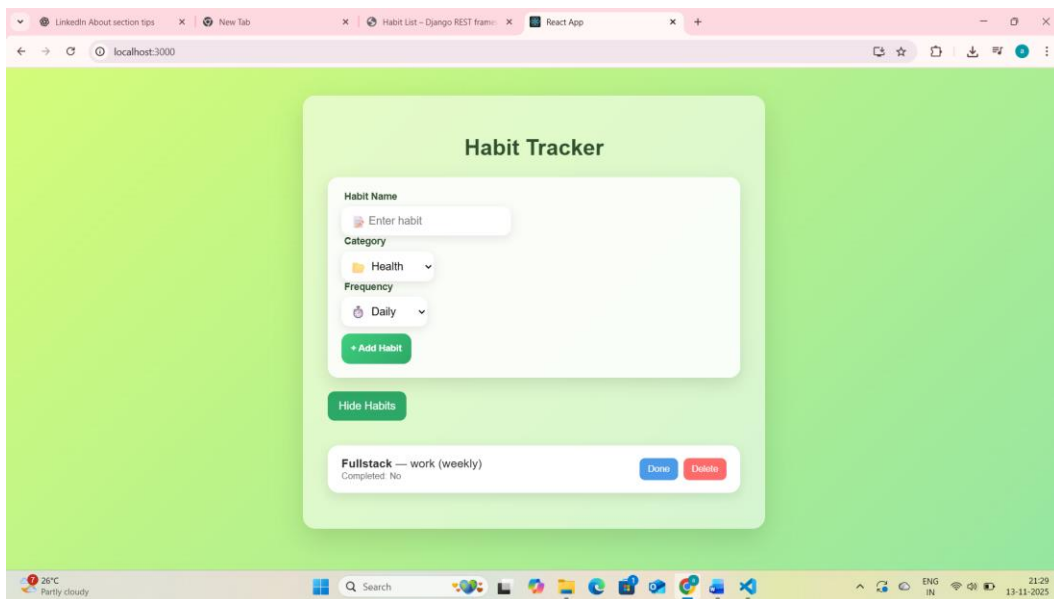

9. Viewing Habits – Completed: No

This screenshot shows habits that were added but not completed:

10. After Deleting Some Habits

Users can delete habits. After deletion, the updated list is shown below:

11. Conclusion

Habit Hero is a clean and simple full-stack application demonstrating CRUD operations, React UI development, Django REST API integration, and state handling. The project is ready for demonstration in interviews and further expansion such as adding user login, streak tracking, and analytics.