

■ Project Report: Habit Tracker App

1. Introduction

The Habit Tracker App is a React-based application designed to help users build and maintain positive habits. It leverages visualization tools such as charts to track progress and provides an intuitive interface built with TailwindCSS for styling.

2. Objectives

- Enable users to add, track, and manage daily habits.
- Provide a clear visual representation of habit progress using Chart.js.
- Ensure a responsive, user-friendly interface using TailwindCSS.
- Implement unit testing with Jest and React Testing Library.

3. Technologies Used

Technology	Purpose
React	Frontend development framework
TailwindCSS	Styling and responsive design
Chart.js	Data visualization
Jest + Testing Library	Testing and validation
Node.js & NPM	Dependency management and scripts

4. Key Features

- Add and remove habits easily.
- Track progress with interactive charts.
- Clean and responsive UI using TailwindCSS.
- Simple configuration with Create React App.
- Lightweight and fast performance.

5. Installation & Usage

1. Clone the repository.
2. Run `npm install` to install dependencies.
3. Start the development server with `npm start`.
4. Open <http://localhost:3000> in your browser.
5. Build for production using `npm run build`.

6. Conclusion

The Habit Tracker App provides users with an easy-to-use solution for building habits through daily tracking and visualization. It demonstrates modern frontend development practices and the integration of UI frameworks, testing, and data visualization libraries.