

Assignment Title:

Build a Habit Tracker Application

Objective:

Develop a habit tracker application where users can:

- Add and manage habits they want to develop.
- Track daily progress for each habit.
- View progress through a calendar or chart.
- Delete habits when no longer needed.

Key Requirements:

- Frontend (React.js)
 - Use React.js with functional components and React hooks (useState, useEffect).
 - Implement Redux or Redux Toolkit for state management.
 - Ensure a responsive design for mobile, tablet, and desktop.
 - Visualize progress using bar charts, line charts, or pie charts.
 - Provide filtering and sorting features for habits.
 - Integrate with APIs to fetch, create, update, and delete data.
- Backend (Optional - Node.js with Express)
- Build RESTful API endpoints for CRUD operations on habits and progress tracking.
- Design a logical and efficient database schema (document in the README).

Validate data to ensure:

- Habit names are not empty.
- Progress cannot be marked for future dates.

Submission Guidelines:

- Upload the project to a public GitHub repository.
- Include a well-structured README file with:
 - Setup instructions for the application.
 - Technologies used.
 - Explanation of the database schema (if applicable).

Submit the repository link via email by to nisakshtechnologiespvtltd@gmail.com.

Evaluation Criteria:

- Frontend (70%): React.js and Redux usage, API integration, responsive UI, and creative visualizations.
- Backend (20%): Functionality of API endpoints, database design, and clean code (if implemented).
- Other (10%): Project structure, documentation, and Git commit quality.

Bonus Points:

- User authentication (e.g., JWT for login/registration).
- Reminders for habits.
- Advanced data visualization using D3.js or Chart.js.
- Deployment to cloud platforms (Vercel for frontend, Heroku for backend).

If you have any questions or require clarification, please feel free to reach out to us via nisakshtechnologiespvtltd@gmail.com. We look forward to seeing your submissions and wish you all the best!