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Loop Habit Tracker

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1.**Introduction**

This document contains a detailed summary of the functional and non-functional requirements for the "**Loop Habit Tracker**" application, which is intended to assist users improve productivity by forming and tracking habits. The software attempts to help users achieve their own goals by organizing their daily routines and tracking performance trends over time. The next parts define the system's basic functions, including the functionalities it must provide, as well as the non-functional components that ensure the system runs quickly, securely, and is expandable for future upgrades.

2.**Requirements**

a) Functional requirements

1- The system shall allow users to track habits **:**
Users can add ,change ,and delete habits. Each habit can be set for a particular time interval (daily, weekly, or customised)**.**

2- The system shall send notification to remind users of their habits **:**
The system should allow users to set reminders for their habits, including selecting specific times of the day or week for notifications .

3- The system shall generate performance reports:
The system will generate reports that illustrate users progress over time, such as completed habits streaks, skipped days, and overall completion rate.

4- The system shall allow users to create account and login
Users should be able to create new accounts using their email.

b) Non-functional requirement

1- The system shall provide optimal performance:
The application shall be responsive, with a response time not exceeding two seconds under normal conditions.

2- The system shall ensure compatibility across platforms:
The application shall be fully compatible with various operating systems, including iOS, Android, and major web browsers.

3- The system shall prioritize usability:
- The user interface shall be designed to be intuitive, enabling users to navigate the application with ease.
- Clear instructions and guidance shall be provided for new users to help them get started efficiently.

5- The system shall maintain secure data storage:
Users data shall be encrypted both in transit and at rest, ensuring that sensitive information related to habits and processes is protected.

3. **Program Tasks**

1. Capturing Progress:
   Enable users to chronicle their daily endeavors with a touch of ease, watching their journey unfold with every entry.

2. Visualizing Achievements:
   Create captivating visualizations, such as dynamic charts and progress bars, to paint a vivid picture of their growth over time.

3. Offering Insights:
   Provide enlightening glimpses into behavioral patterns, revealing trends and offering gentle nudges for improvement.

4. Setting Aspirations:
   Allow users to set their sights on both short-term milestones and long-term dreams, helping them chart a clear course towards their goals.

5. Encouraging Rewards:
   Introduce an element of playfulness with reward systems, turning achievements into delightful moments of celebration.