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Loop Habit Tracker

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Phase 1

1.1 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.

1.2 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.

4-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.

1.3 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.

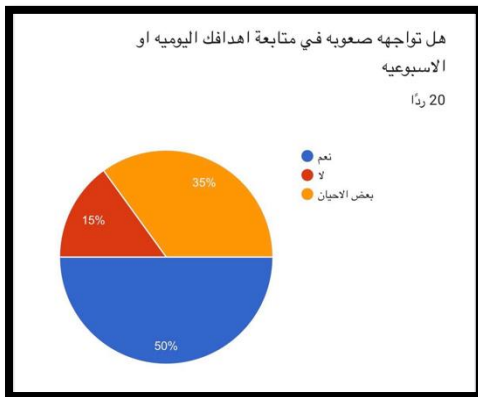
Phase 2

2.1 Purpose of the application :

The "**Loop Habit Tracker**" is designed to assist users in improving productivity by developing and monitoring habits. The application addresses the need for users to organize their daily routines and track their progress over time, thereby helping them achieve personal goals. Its primary function is to streamline habit management by allowing users to log daily or weekly habits, set reminders, and receive notifications, while also generating performance reports to visualize progress .

2.2 Conduct survey :

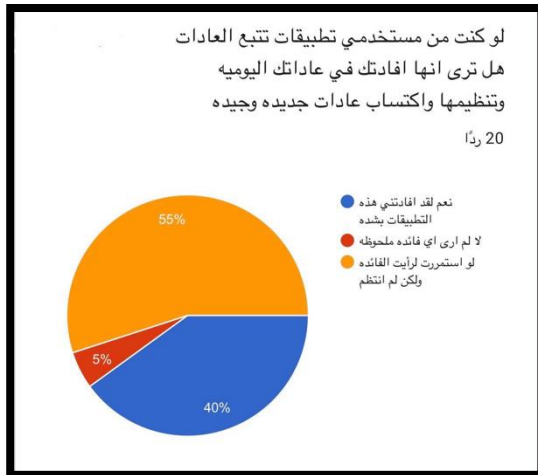
Q1



Through our analysis, we aimed to determine whether there is a need for a program that tracks daily goals. The results revealed that 50% of the 20 participants experience consistent difficulty in adhering to their daily goals, while 35% encounter this challenge intermittently. In contrast, 15% of the participants reported no difficulties in maintaining their daily goals. These findings suggest a

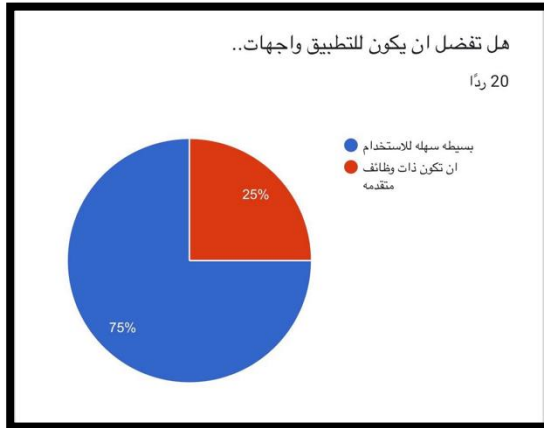
substantial demand for a tool that can assist users in managing and achieving their daily objectives more effectively.

Q2



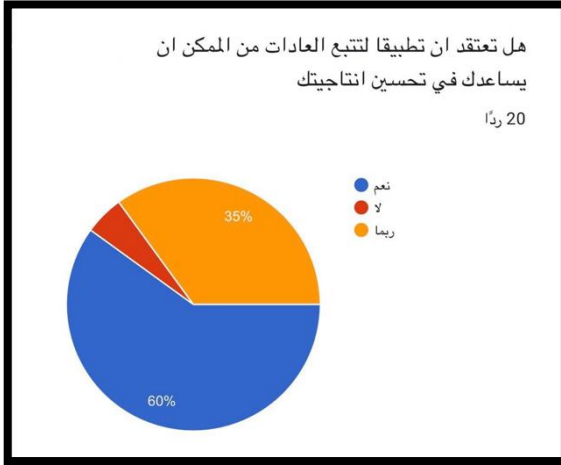
Our objective was to assess whether users of habit-tracking programs perceive any benefit in achieving their goals. The analysis showed that 55% of users believe that by consistently using these programs, they would eventually see the benefits and reach their goals. Additionally, 40% of users reported that the programs have already helped them achieve their objectives, while 5% indicated that they experienced no benefit from the programs. These insights highlight a generally positive reception towards habit-tracking tools, with the majority seeing or anticipating value in their use.

Q3



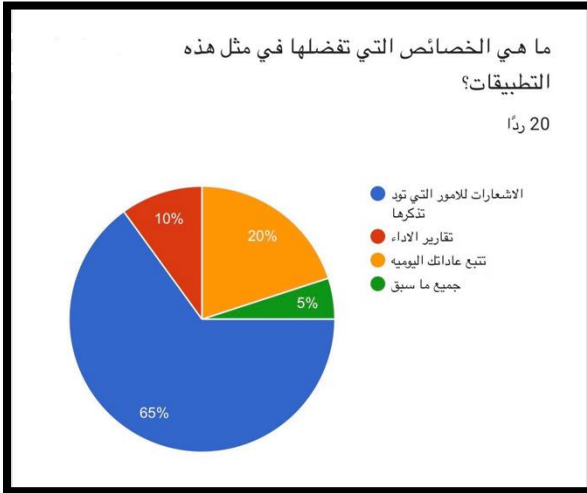
The goal of this analysis was to determine whether program users prefer simple, easy-to-use interfaces or advanced functionality. The results indicated that 75% of respondents favored having straightforward, user-friendly interfaces without unnecessary complexity. Meanwhile, the remaining 25% expressed a preference for more advanced functions in the interface. These findings suggest a strong inclination toward simplicity, with most users prioritizing ease of use over complexity.

Q4



This question targeted individuals who do not currently use a habit-tracking application, aiming to understand whether they believe such a tool could enhance their abilities. The majority, 60%, expressed confidence that the application would help improve their productivity. Meanwhile, 35% were uncertain about its potential benefits, and 5% were not convinced that these programs would be helpful. These results highlight a general optimism towards the productivity-boosting potential of habit-tracking applications, though a portion of respondents remain unsure or Skeptical.

Q5



This question was directed at both users and non-users of the habit tracking app to determine their preferences for specific features. The results showed that 65% preferred the feature of receiving notifications for reminders, 20% favored the ability to track their daily habits, and 10% selected performance reports for their daily habits. Additionally, 5% indicated that they preferred all of the listed features. This feedback highlights a strong preference for reminder notifications, with other features like habit tracking and performance reports receiving less, but still notable, interest.

2.3 Research existing programs

Several similar habit-tracking applications already exist, such as:

- a) **Habitica**: A gamified habit tracker that rewards users with virtual incentives for achieving their goals.
- b) **Streaks**: A straightforward habit tracker focusing on daily task management, offering a minimalist design.

Advantages of these applications:

- a) **Habitica**: Encourages user engagement through gamification, making the process enjoyable.
- b) **Streaks**: Features a simple interface that prioritizes key habits, making it user-friendly.

Disadvantages:

- a) **Habitica**: The gamification aspect may overcomplicate the user experience for those who prefer simplicity.
- b) **Streaks**: Limits the number of habits that can be tracked simultaneously.

Comparison with "Loop Habit Tracker":

The "**Loop Habit Tracker**" provides more robust performance tracking with advanced reporting capabilities, in addition to offering cross-platform compatibility. While simpler apps like "**Streaks**" focus on ease of use, "**Loop Habit Tracker**" excels in providing a comprehensive tool for long-term habit monitoring. It may not offer the gamified experience of "**Habitica**," but its focus on detailed analytics and user productivity makes it a more versatile and powerful tool.

