Habit Tracker App Conception Phase Document

Project Overview

Project Name: Habit Tracker App

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1. Introduction

The Habit Tracker App is a user-friendly tool designed to help users establish and monitor their daily and weekly habits. By offering a seamless way to track progress and analyse participation, the app aims to empower users to stay committed to their desired habits and achieve their personal goals.

2. Project Objectives

The primary objectives of the Habit Tracker App are as follows:

Provide users with a simple and intuitive interface for creating and managing their habits.
Enable users to increment, reset and delete habit counts, as well as view their progress.
Support customization by allowing users to set habit names, descriptions, and periodicity.
Create a foundation that can be expanded with additional features in the future.

3. Scope

The Habit Tracker App will cover the following core functionalities:

Creating new habits with names, descriptions, and periodicity.
Incrementing and resetting habit counts.
Analysing habit participation through counts and streaks.
Deleting habits that are no longer relevant.

4. Target Audience

The app is aimed at individuals who are motivated to improve their daily routines and achieve their personal goals. It is designed to be accessible to users of varying technical backgrounds. The App is open source, this means is free to use, modify and distribute for non-commercial use.

5. Features

User-friendly interface for adding, managing, and analysing habits.

Tracking of habit counts and participation streaks.

Personalized habit creation with customizable names, descriptions, and periodicity.

Data persistence using the sqlite3 library for seamless app experiences.

6. Initial Design Concepts

Simple Interface: A clean and intuitive user interface that emphasizes ease of use.

Customization Options: User-friendly options for creating habits with customizable names, descriptions, and periodicity.

7. Technology Stack

Programming Languages: Python 3.x

Database: sqlite3 library

User Interface: questionary for interactive command-line interfaces

Testing: pytest . for unit testing

Data Analysis: pandas (potential for future expansion with matplotlib)

8. Risks and Challenges

Providing a balance between simplicity and advanced features.

Handling potential exceptions and user errors.

Designing an effective habit analysis visualization system.

9. Project Timeline

Day 1-2: Project Setup and Basic Interface

Set up project structure and version control.

Create initial UI prototypes for habit creation and interaction.

Implement basic habit creation and data storage functionality.

Day 3-4: Habit Management and Analysis

Develop habit incrementing, resetting, and deletion features.

Implement basic habit analysis functions for counts and streaks.

Day 5-7: Advanced Features and Refinement, Testing and Documentation

Unit tests using pytest .

Perform thorough testing and bug fixing.

Create comprehensive documentation, including a readme.txt user guide.

10. Conclusion

The Habit Tracker App aims to provide a valuable tool for individuals striving to build positive habits and improve their daily routines. By combining user-friendly interfaces, efficient data tracking, and habit analysis, the app aspires to empower users on their journey toward achieving personal goals.