Final product:

Habit Tracking Website

The Habit Tracking website, developed using the Django framework, serves as a user-friendly platform for creating, managing, and analyzing personal habits, offering features such as habit creation, completion tracking, streak calculation, and habit analysis.

How to Start:

Before you begin, ensure that you have Python version 3.9 or later and Django version 4.2 or later installed.

Technical Approach:

The primary components of the solution include models (models.py) for representing habits, views (views.py) for handling user interactions, templates for rendering web pages, and tests (test.py) for ensuring reliable functionality.

Features:

1. **User Authentication**: The application requires users to sign up and log in, ensuring a personalized experience for each user.

2. **Habit Creation and Management:** Users can create new habits with customizable names, task descriptions, and periodicity (daily or weekly).

3. **Habit Completion Tracking:** The app records completion dates for habits, maintaining streak counts for consecutive completions.

4. **Streak Calculation:** The application automatically calculates streaks based on periodicity (daily or weekly) while updating the longest streak if necessary.

5. **Habit Analysis:** An analytics module offers functions to analyze habits, such as listing all tracked habits, filtering by periodicity, and calculating the habits that have the biggest longest streak and smallest longest streak.

6. **User Interface:** The application features a user-friendly interface, allowing users to interact with their habits through web forms and menus.

7. **Predefined Habits:** The system includes predefined habits to provide a starting point for users.

GitHub Link:

The complete source code of the Habit Tracking website, along with the conception and development phases, is available on GitHub:
https://github.com/Abdessamii-Kourtam/Habit-Tracking-website/tree/main