

Habit Tracker App

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Class - D15A Roll no - 53

habit tracking

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DAY FI _____

DAY F _____

Morning	Exercise	Diet	Saturday
<div style="background-color: #f8d7da; padding: 5px; margin-bottom: 5px;">We laos: spail states!</div> <div><input type="checkbox"/> Tournig _____ <input type="checkbox"/> Routine _____ <input type="checkbox"/> Fortine _____ <input type="checkbox"/> Exercise _____ <input type="checkbox"/> Exerote _____ Nars _____ <input type="checkbox"/> Picciss _____ <input type="checkbox"/> Nectbiess _____ <input type="checkbox"/> Wrats _____ <input type="checkbox"/> Barts _____</div>			
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Deaning by:

prrrative routine.

You got this!

You got this!

Shedding
spr out!

Hantily!

Introduction

Building lasting habits can be tough. Our habit tracker simplifies the process with easy tracking, progress visualization, and smart reminders, making habit formation achievable. Habits are the building blocks of our daily lives, influencing everything from our health to our productivity. Understanding the science behind habit formation can further empower users to take control and achieve their goals. This app is designed to be a tool that supports users through every step of this journey.



Consistency

Maintain routines effortlessly.



User-Friendly

Enjoy a simple, intuitive design.



Visuals

Track progress at a glance.



Customizable

Tailor to your unique needs.

Project Description

The project's goal is to develop a habit tracker app. Users need to add, delete, and track habits. Functional requirements include authentication, CRUD operations, and tracking. Non-functional requirements cover performance, security, and scalability.

Authentication

Secure user access.

CRUD Operations

Manage habits.

Scalability

Handle many users.



Software Requirements & Technologies Used

This app is built with Python 3.x and Flask for the backend, utilizing MongoDB for data storage. Frontend technologies include HTML, CSS, and JavaScript.

The backend is structured around Python 3.x, chosen for its versatility and extensive library support. Flask, a micro web framework, is used to create a lightweight and modular application, ideal for developing web APIs. MongoDB, a NoSQL database, provides flexible data storage, which is particularly useful for handling user habits and preferences.

1

Flask

Handles backend logic, routing, and request handling. It enables the creation of RESTful APIs for seamless communication with the frontend.

2

MongoDB

Stores user data, including habits, schedules, and user preferences. Its schema-less design allows for easy adaptation to changing requirements.

3

Jinja2

Renders HTML templates dynamically, allowing for the creation of dynamic and interactive user interfaces. It separates the presentation layer from the application logic.

Setup and Installation

To get started, follow these steps to set up your development environment. These instructions cover installing Python and MongoDB, cloning the project, and setting up a virtual environment.

1 Install Python

Visit the official Python website and download the latest version (3.11.9 or later). After installation, verify it using the command:

```
python --version  
pip --version
```

2 Install MongoDB

Download MongoDB from the official website and follow the installation instructions for your operating system. Ensure MongoDB is added to your system's PATH. Verify the installation by running:

```
mongo --version
```

3 Set Up a Virtual Environment

Navigate to your project directory and create a virtual environment:

```
python -m venv venv
```

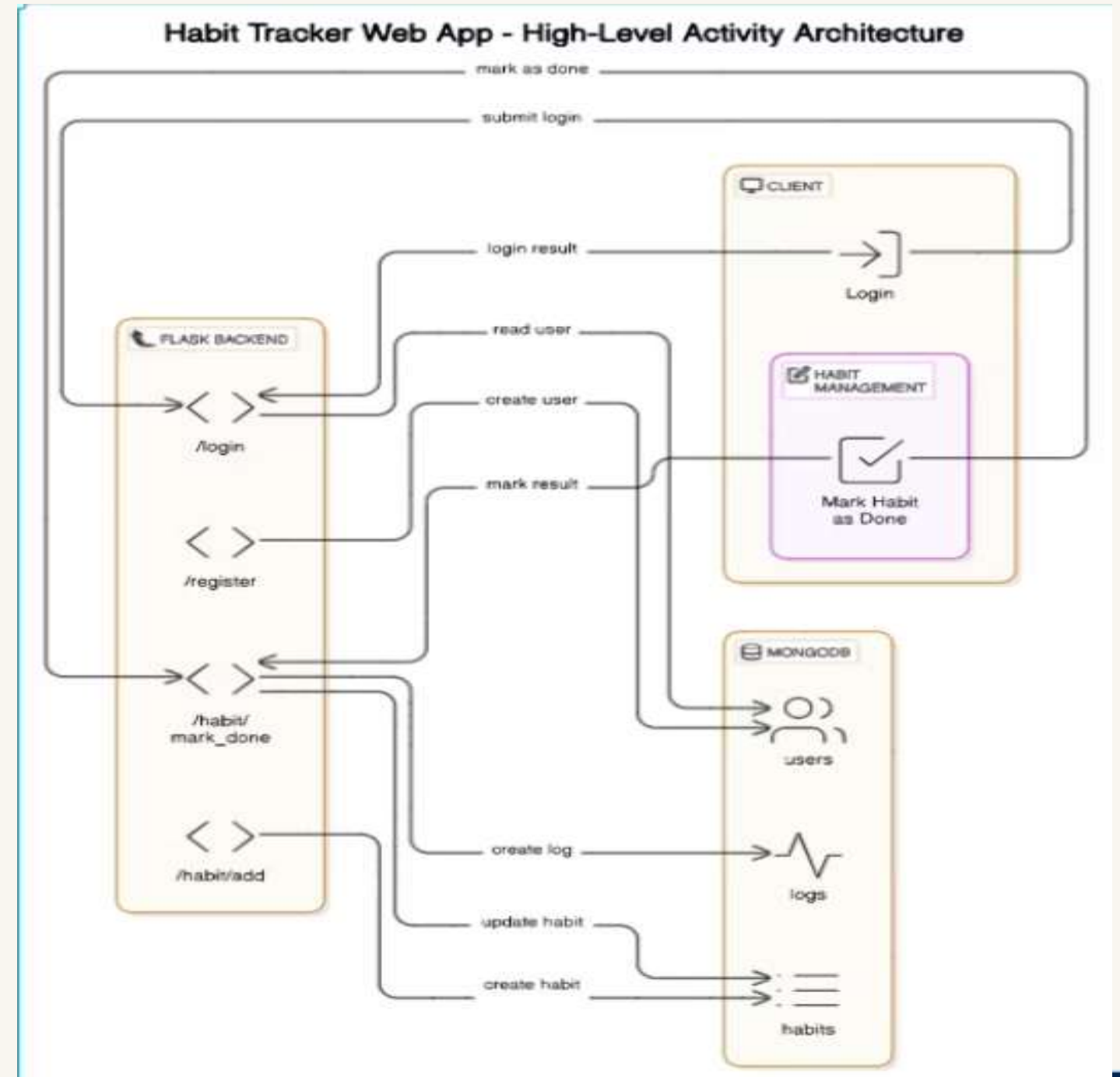
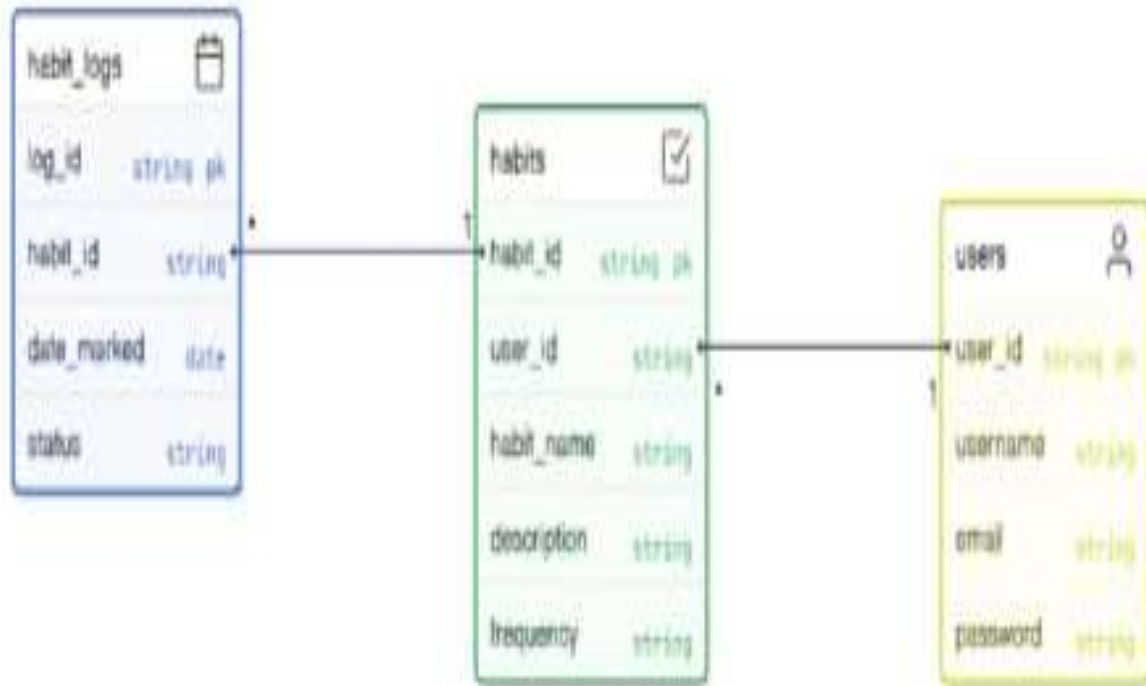
Activate the virtual environment:

```
.\venv\Scripts\activate
```

(On Windows)

Project Structure and Architecture

Habit Tracker App Data Model



Working

Welcome to Habit Tracker 🌸

Track your goals in a fun, beautiful way.

🔥 Hello Me

Go to Dashboard

Login

Email

Password

Login

Don't have an account? [Register here](#)

Working of app

Register

Username

Email

Password

Confirm Password

Register

Already registered? [Login here](#)

Habit Dashboard

Monthly Tracker Weekly Tracker

Add New Habit

Enter a new habit...

Add a short description (optional)

Add Habit

singing

Added on: 10 April 2025

Habit Summary

• 2025-04-16: 1 habit(s)

Monthly Habit Tracker

singing

1	2	3	4	5	6	7
✓	✓	✓	✓			
8	9	10	11	12	13	14
15	16	17	18	19	20	21
				✓		
22	23	24	25	26	27	28
		✓				
29	30	31				

Back to Dashboard

Future Scope

Future enhancements aim to increase user engagement and motivation through social features and gamification. Scalability considerations are paramount, focusing on efficiently handling a growing user base and expanding data storage needs. This app offers a robust solution for habit tracking, empowering users to cultivate positive habits and achieve their personal goals.

Social Features

Integrating social features will allow users to connect with friends and participate in group challenges. This will leverage the power of social support and accountability to improve habit adherence. Sharing progress and achievements will further motivate users.

Gamification

Implementing gamification elements, such as points, badges, and leaderboards, will transform habit tracking into an engaging and rewarding experience. Users will earn rewards for consistent performance and achieving milestones, fostering a sense of accomplishment and encouraging continued use.

Conclusion

This habit-tracking application provides a practical solution for building positive routines and achieving personal goals. By using our app daily, users can expect to see tangible improvements in their productivity, health, and overall well-being.

Habit formation requires consistent effort, and our app is designed to provide the tools and support needed to succeed. We empower users to create personalized routines, track progress, and stay motivated through visual feedback and customizable reminders.

We are dedicated to continuously improving the user experience and providing valuable resources to support habit formation. Join our community of users who are already transforming their lives, one habit at a time.