

Hostel Chatbot Documentation

Summary

This is a small web-based chatbot system. It assists users in obtaining information regarding a hostel by conversing with a basic bot. The chatbot knows basic queries and provides responses based on stored information.

Purpose of the Project

- To enable users to **ask hostel questions** (such as rules, timings, etc.).
- To enable easy acquisition of **online answers** by users.
- To gain experience using Flask (Python web tool) and chatbot logic.

Tools and Technologies Used

Python – primary programming language utilized.

Flask – utilized to develop the web application.

HTML – to render the chatbot web page.

SQLite – small database utilized to store data.

1. `app.py`

- It initiates the web app and ties everything together.
- It displays the chatbot page and exchanges messages between the chatbot and user.

2. `chatbot.py`

- This script contains the chatbot's logic.
- It understands how to respond to the user's queries.
- It checks the message and selects a corresponding reply.

3. `index.html`

- This is the chat page users view in their browser.
- It allows users to type questions and view answers.
- It appears clean and minimal.

4. `hostel.db`

- This is a database file.

- It stores helpful hostel information.
- The chatbot can use the information to reply to questions.

How the App Works (Step-by-Step)

1. The user opens the web page.
2. The user enters a question into the chatbot box.
3. The chatbot validates the question.
4. The chatbot provides an answer on the screen.
5. The user may continue chatting or close the page.

Features

- Basic chatbot that can interpret simple hostel questions.
- Easy-to-use web interface.
- Stores and retrieves saved data from a database.
- Ideal for learning how web apps and chatbots operate.

Conclusion

This is a simple beginner chatbot website for questions related to the hostel. It displays how to combine Python, Flask, HTML, and a tiny database to create a functional chatbot system. Clean, simple, and useful!

Output:

🏠 HostelBot

Hello! I'm your Hostel Assistant 🤖
Ask me about rooms, fees, facilities, rules, location, or contact details.

tell me about the rooms

We offer single, double, and triple rooms with attached bathrooms, study tables, and Wi-Fi.

what is fees structure

Fees: Single - Rs. 8000/month, Double - Rs. 6500/month, Triple - Rs. 5000/month. Security: Rs. 5000.

Send

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what are the rules

Rules: No smoking or loud music. Visitors allowed 10 AM - 6 PM. Entry after 10 PM requires approval.

Send