



The Superior University, Lahore

Assignment-I (Fall 2023)

Course Title:	Programming for AI				Course Code:	CAI601410	Credit Hours:	4
Instructor:	Prof. Rasikh Ali				Programme Name:	BSDS		
Semester:	4 th	Batch:	F23	Section:	BSDSM-4A	Date:	1 st February, 2025	
Time Allowed:					Maximum Marks:			
Student's Name:	Asaad Iqbal				Reg. No.	SU92-BSDSM-F23-020		
Lab-Task 10								
1: Restaurant Chatbot								

Task 1

RestaurantBot

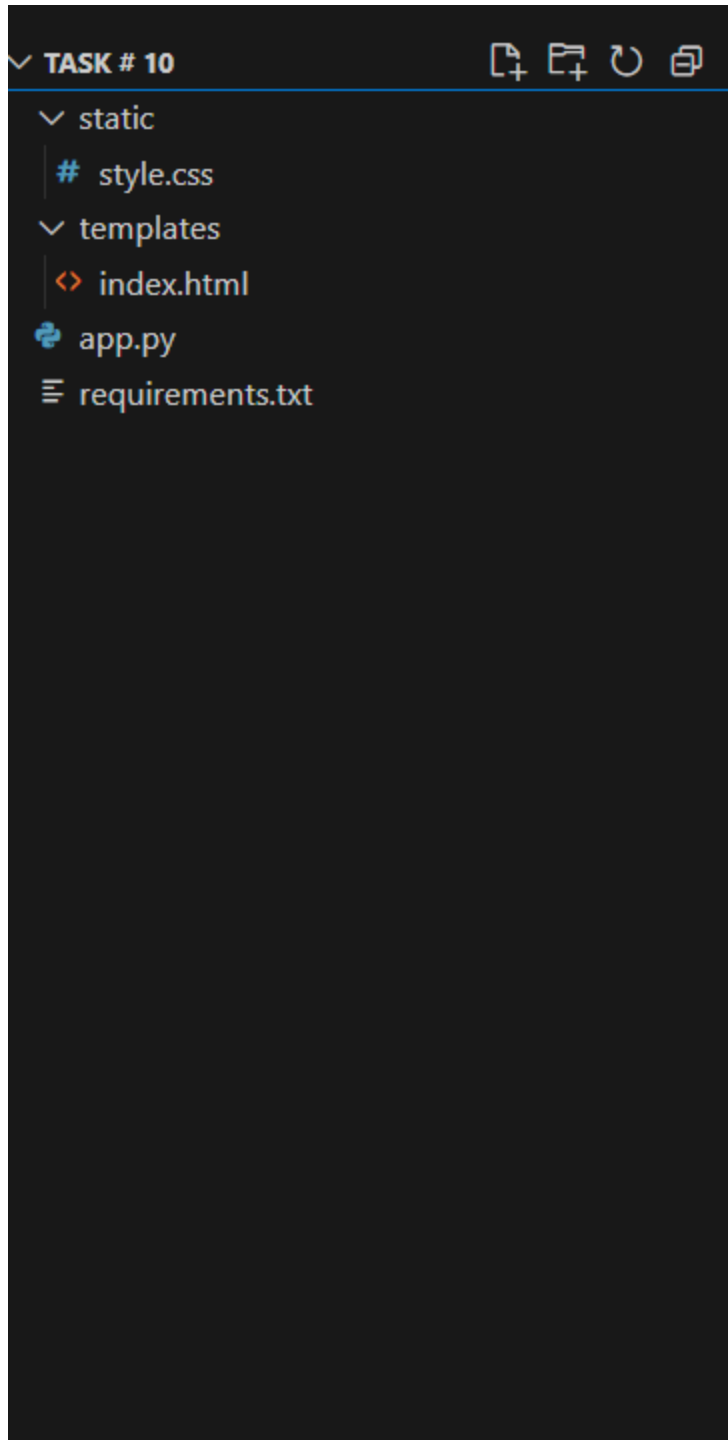
Introduction:

RestaurantBot is a Flask-based web application that simulates a chatbot to help users interact with a restaurant virtually. It can answer questions about the menu, timings, special dishes, location, reservations, and more. The chatbot displays a stylish, modern UI with structured chat bubbles for both user and bot interactions.

Features:

- Conversational chatbot interface
- Predefined responses for common queries
- Structured menu presentation (Starters, Main Course, Desserts, Beverages)
- Clean and responsive UI with background image
- Session handling to store chat history temporarily
- Support for custom styling via CSS

Task Structure:



Technologies Used:

- Python 3.x
- Flask

- HTML5 / CSS3
- Jinja2 (Flask templating)
- Unsplash (background image)

How to Run:

1. Prerequisites:

Make sure Python and Flask are installed.

2. Run the Flask App:

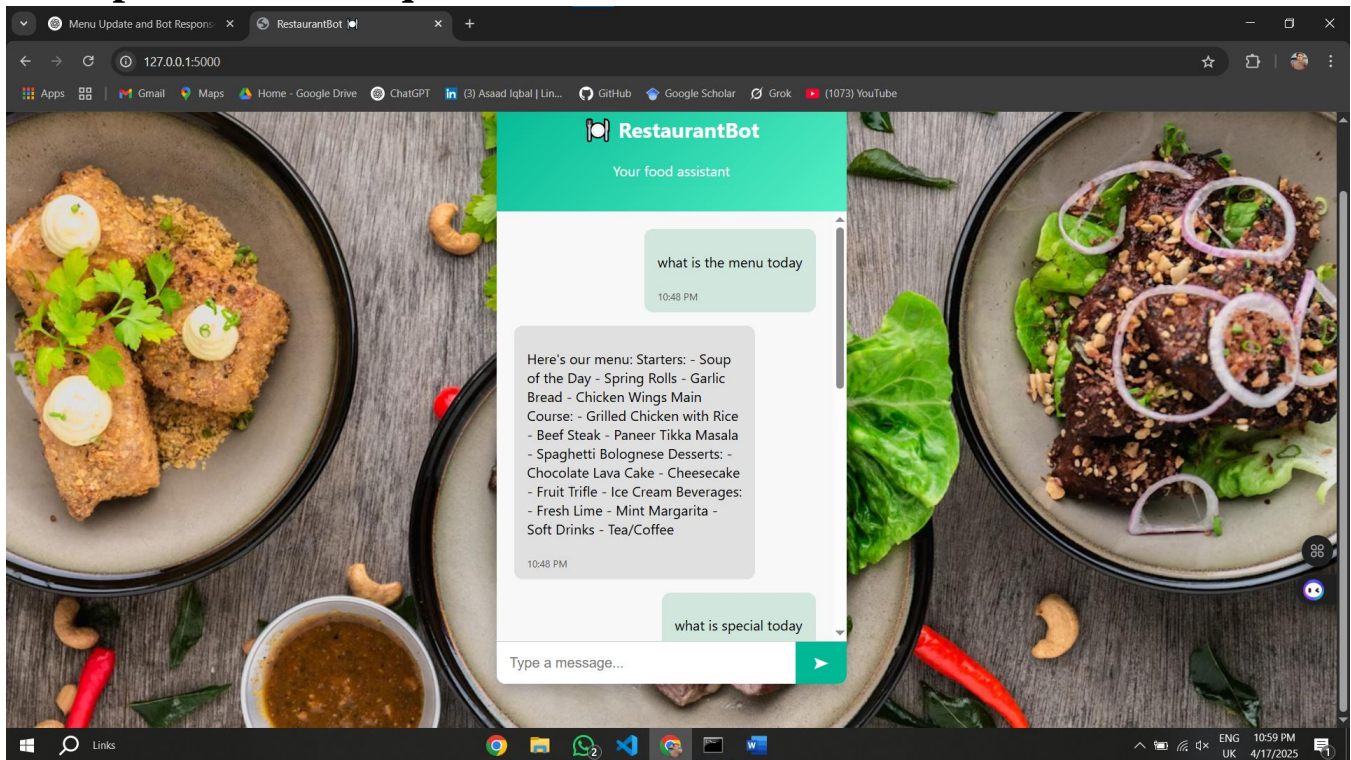
```
C:\Users\DELL\Documents\Semester 4\PAI (Lab)\Task # 10>python app.py
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with watchdog (windowsapi)
* Debugger is active!
* Debugger PIN: 691-281-602
```

3. Open in Browser:

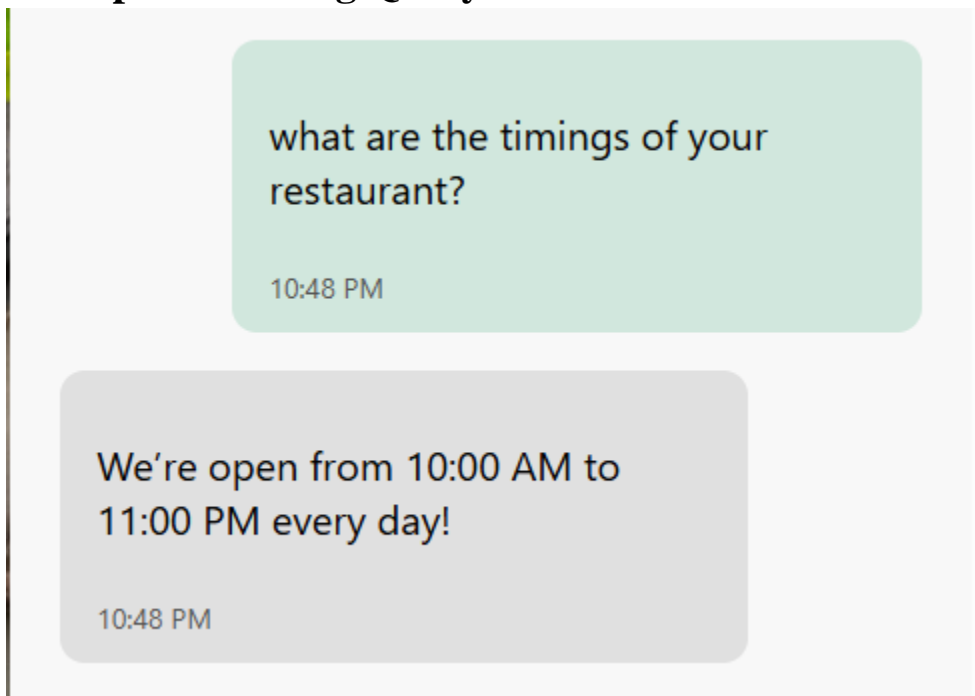
Visit <http://127.0.0.1:5000> to interact with the chatbot.

Sample Screenshots:

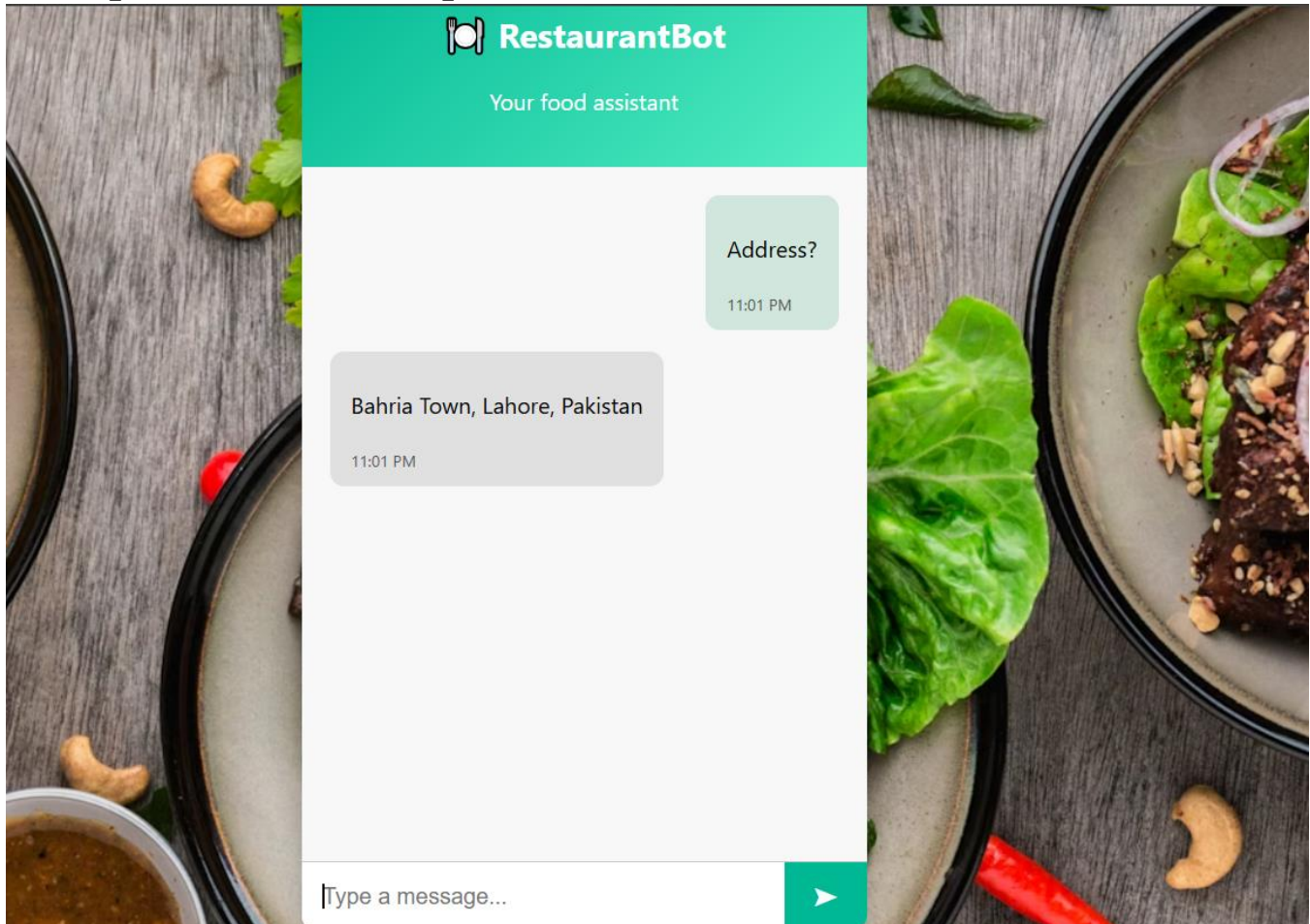
Example 1: Menu Request



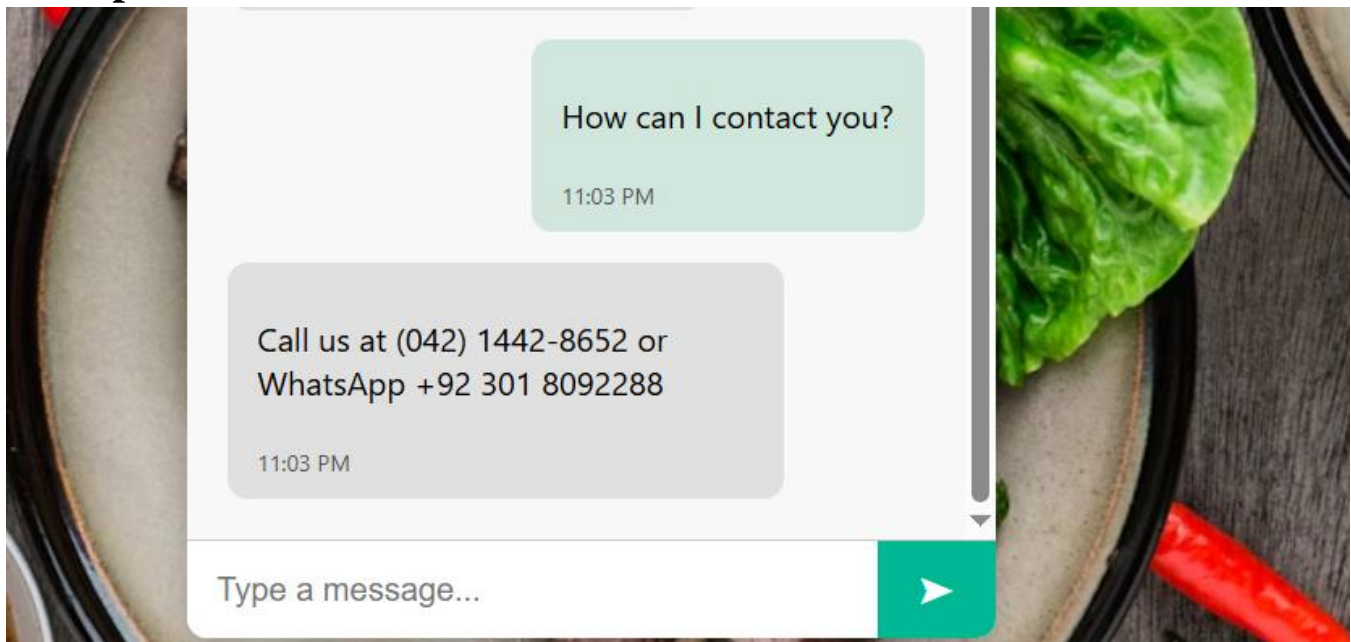
Example 2: Timing Query



Example 3: Location Request



Example 4: Contact Info



UI Highlights:

- Chat bubbles styled separately for user and bot
- Smooth scrolling chat window with timestamps
- Stylish background from Unsplash
- Gradient header design