The operation and setup of a basic restaurant reservation system are described in this study. The system is made up of a Python backend that communicates with a MySQL database to handle reservations and customer data. Python's HTTP server is used to deliver a web portal that provides access to the system. Schema for Databases:

Customers Table: Contains contact information and the name of the customer.

Reservations Table: Contains information about reservations, such as customer ID, time, number of guests, and special requests. Dining Preferences Table: Keeps track of patrons' dietary needs and preferred tables for meals.

Classes and Methods in Python:

RestaurantDatabase: Manages all database functions, such as establishing a connection, adding clients, adding, retrieving, and removing reservations.

To let the site be active:

Run the Server: Run the Python script to launch the server.

Open a web browser and go to http://127.0.0.1:8000/ to access the server.

Add Customer: To access the customer form and submit new customers, click the "Add Customer" link.

Add Reservation: To view the reservation form and make new reservations, click the "Add Reservation" link.

View Reservations: To view every reservation, click the "View Reservations" link.

Delete Reservation: To access the form and delete reservations, click the "Delete Reservation" link.

In summary, A simple yet useful interface is offered by this restaurant reservation system for handling patrons and bookings. The system offers an intuitive web interface for user interaction and guarantees accurate data storage and retrieval from the database. Future enhancements might include improved UI/UX for a better user experience, user authentication, and more resilient error handling.

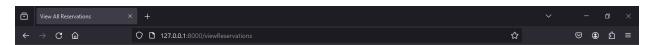
Restaurant Portal

Home Add Reservation View Reservations Delete Reservations

All Reservations

Reservation ID	Customer Name	Contact Info	Reservation Time	Number of Guests	Special Requests
13	Ace Ronaldo	917.333.2233	2024-09-07 13:30:00	4	none
16	Ace zoro	989.087.01893	2024-06-05 16:30:00	8	none
17	Ace Messi	917.659.4402	2024-12-09 13:30:00	9	none
18	James Rodriguez	918.922.9209	2024-05-23 05:00:00	9	growth of hair
19	Green Tea	918.234.6758	2024-09-23 13:00:00	7	pride month

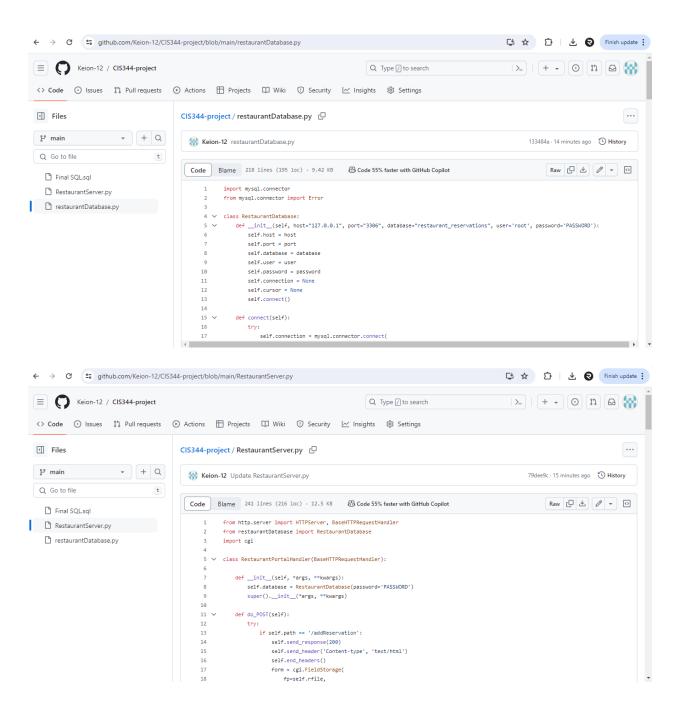


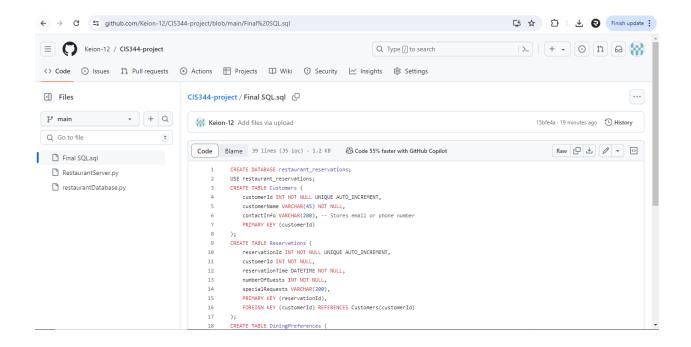


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https://github.com/Keion-12/CIS344-project