

# Chatbots: A Delicious Journey to the Nearest Cafe

## TEAM DETAILS:

TEAM NAME : CODE MASTER

### TEAM MEMBERS:

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# Chatbot Capabilities: Location-based Search



1

## User Input

The user provides their current location, perhaps using their device's GPS.

2

## Data Retrieval

The chatbot accesses a database of local cafes and restaurants, potentially using APIs.

3

## Location Matching

The chatbot identifies nearby cafes and restaurants based on the user's provided location.

# Integrating Cafe and Restaurant Data

## Cafe Data

Information about cafes might include name, address, opening hours, menu items, price range, and ratings.

## visiting place Data

Information of visiting places near to the café or restaurant. Sometimes user may wants to visit that area.

## Restaurant Data

Restaurant data might include similar details, along with cuisine type, specific dishes, and dietary options.

# Nearest Cafe/Restaurant Lookup

1

## Location Input

The user provides their location, for instance, by typing their address or using their device's GPS.

2

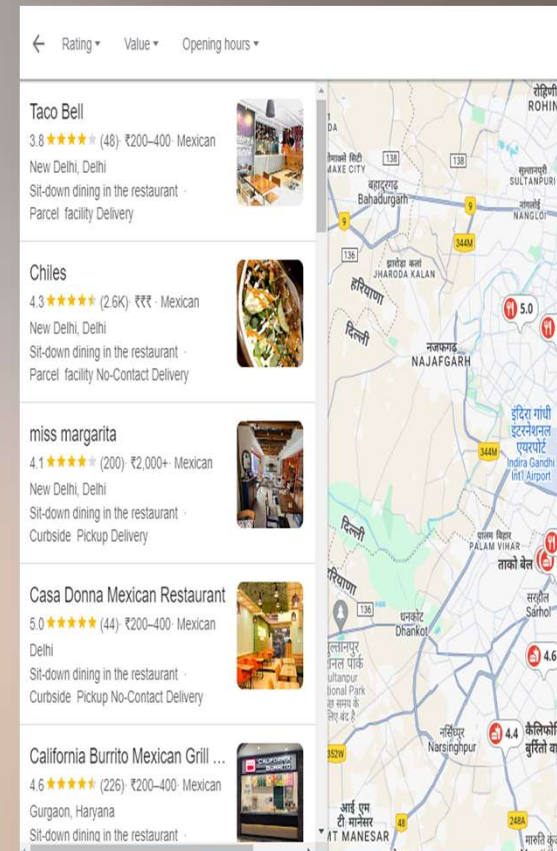
## Data Filtering

The chatbot filters the available cafes and restaurants based on proximity to the user's location.

3

## Result Display

The chatbot displays a list of the nearest cafes and restaurants, potentially with additional details like distance, opening hours, and brief descriptions.



# Filters

1

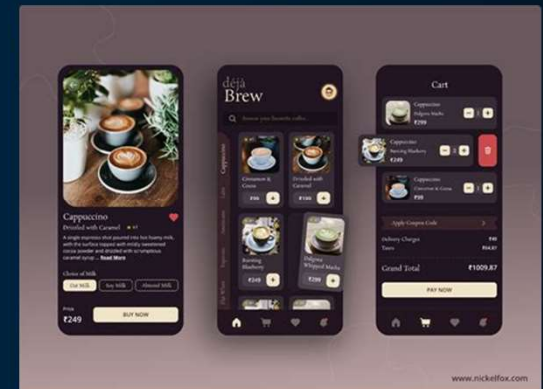
## Price Range

The user can specify their desired price range, for example, "budget-friendly" or "high-end".

2

## Rating Filter

Users might want to view only cafes or restaurants with a certain rating, like 4 stars or above.



3

### Timings

User can asks for timings of café/restaurants and then chatbot accordingly give results.

4

### Things To Do Nearby

If user wants to travel or visit nearby area then chatbot respond things to do specific place name  
ex-Go shopping in SDA Market

5

### Specialties

It will also show the Specialties of café / Restaurant to the user  
ex- Live Music, Buffet, Cuisines – Mediterranean, Mexican, North Indian, American

# User Input and Location Detection

## Text Input

The user can enter their location in text format, such as "New York City" or a specific address.

## Location Services

The chatbot can access the user's device's location services to retrieve their current coordinates.

## Geocoding

Geocoding converts text addresses into geographic coordinates, enabling accurate location-based searches.



# Chatbot Development with Python Libraries



## Python Language

Python is a popular choice for chatbot development due to its readability and extensive libraries.



## Data Storage

Libraries like SQLite or PostgreSQL can be used to store information about cafes and restaurants.



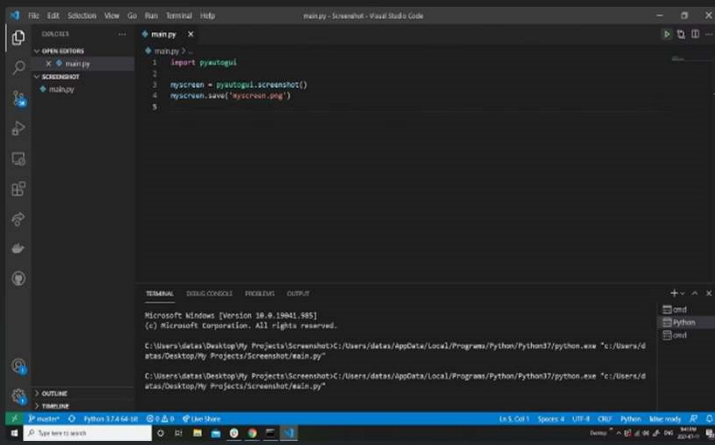
## Location Handling

Libraries like GeoPy or Google Maps API provide location-based functionality.



## Chatbot Framework

Libraries like RASA or Dialogflow can simplify chatbot creation, providing tools for conversation flow and natural language processing.





# Thank You

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