



METHODOLOGY FORM

Team No:14

Project Title: CHATBOT IN DIALOGFLOW

Proposed Method:

Chatbot is designed to facilitate food ordering, tracking, and customization through an intuitive and user-friendly interface. Users can effortlessly place new orders, modify existing ones, track their order status, and interact with the chatbot in a conversational manner. Leveraging the power of Dialogflow, the chatbot comprehends user queries, extracts relevant information, and seamlessly integrates with a backend system to process orders and manage user data.

Proposed Method illustration:

Frontend Development:

Define Frontend Architecture:

- Decide on the frontend architecture (e.g., web-based using React, Angular, Vue.js, or mobile app using React Native, Flutter).

Set Up Development Environment:

- Install necessary development tools and dependencies for your chosen frontend framework.

Create User Interface (UI):

- Design and implement the user interface for the chatbot, incorporating input fields for user queries and space to display chatbot responses.

Integrate Dialogflow in Frontend:

- Use the Dialogflow API to integrate the frontend with Dialogflow, allowing it to send user queries and receive intent responses.

Handle User Input:

- Implement logic to handle user input, capture queries, and send them to Dialogflow for processing.

Display Chatbot Responses:

- Develop functionality to display chatbot responses in a conversational format on the frontend.

Backend Development:

Database Design:

- Design the SQL database schema to store user information, order details, and any other relevant data.

Implement Dialogflow Integration:

- Develop backend logic to handle Dialogflow interactions, including sending queries to Dialogflow and processing intent responses.

Business Logic:

- Implement business logic to handle different intents, extract information from user input, and interact with the SQL database as needed.

Handle Ongoing Conversations (Contexts):

- Use contexts to manage ongoing conversations and maintain state information as the user interacts with the chatbot.

Database Integration:

Connect to SQL Database:

- Set up database connections in the backend to interact with the SQL database. Use an ORM (Object-Relational Mapping) library if needed.

Implement CRUD Operations:

- Implement Create, Read, Update, and Delete (CRUD) operations in the backend to manage data in the SQL database.

Signature of the Supervisor