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## PROJECT TOPIC: ASSISTANT CHATBOT

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**Group No.: 5**

**Project Group Members:**

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**Project Supervisor:** Dr. Sayantan Sinha, Technical Trainer.

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**About the Project:** An innovative food order assisting chatbot, designed to enhance the online ordering experience for food enthusiasts. Integrated into our food ordering website, our chatbot offers assistance to customers by guiding them through the ordering process, tracking order statuses, calculating total bills, and swiftly addressing any food-related inquiries, serving as the ultimate virtual companion for a hassle-free dining experience.

**Motivation:** The scope of this project extends beyond conventional food ordering systems by seamlessly integrating a chatbot interface within the website, revolutionizing the user experience. By streamlining the whole ordering process within a conversational interface, this innovation enhances convenience and customer satisfaction.

**Project Planning:**

**1. Research and Requirement Gathering**

- Understand user needs and expectations.
- Research chatbot development frameworks and technologies.
- Gather requirements for menu integration, order tracking, and billing calculations.

**2. Language Learning**

- Learn the necessary frameworks for chatbot development.
- Familiarize with development tools and platforms for seamless integration.

**3. System Design and Prototyping**

- Design the website interface and data flow.
- Prototype basic interface of the website.
- Plan the integration of chatbot with the food ordering website.

**4. Development**

- Implement the chatbot functionalities according to the design.
- Integrate the chatbot with the website's backend systems for real-time data exchange.
- Implement the frontend design of the website.

**5. Testing and Refinement**

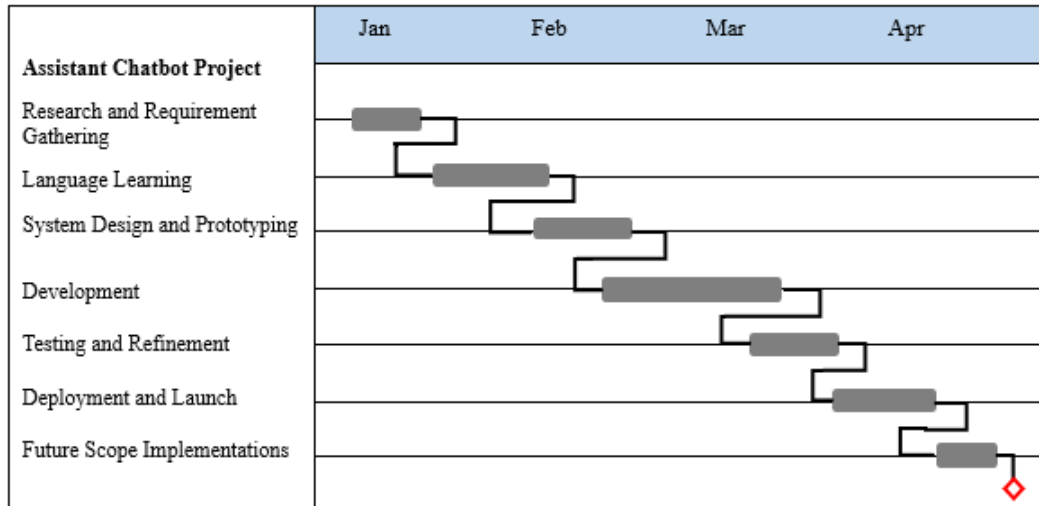
- Conduct thorough testing to identify and fix any bugs or issues.
- Gather feedback from potential users for improvements.
- Refine the interface and functionalities based on feedback.

**6. Deployment and Launch**

- Prepare to deploy the chatbot on the website.
- Ensure seamless integration and compatibility of the chatbot with the website.
- Launch the chatbot and monitor its performance.

## 7. Future Scope Implementations:

- Implement additional features such as providing food recommendations.
- Continuously monitor user feedback and make necessary improvements.



### Tools required:

- **Hardware Requirements:** Server/Hosting, Client Devices.
- **Software Requirements:** Programming languages (Python), frontend development tools (HTML, CSS), frameworks (FastAPI), database management system (MySQL), chatbot platform (Dialogflow), integrated development environment (Visual Studio Code).

Signature of Project Supervisor: \_\_\_\_\_