

Project Timeline for Dr. Walnut's Clinic Voice-Interactive Scheduling Assistant

Initial Concept (3 hours):

- Conducted thorough requirement analysis to define project scope.
- Performed a feasibility study to assess potential challenges and success factors.
- Researched relevant technologies to identify the most suitable tools for the project.
- Selected an appropriate technology stack that aligns with the project goals.

Development Phase (16 hours):

1. Setup development environment
2. Develop a foundational backend and frontend framework to establish the user interface and ensure seamless backend connectivity.
3. Design and implement the database schema for appointment scheduling.
4. Progress frontend development for both user and admin interfaces, focusing on usability and aesthetics.
5. Implement voice recording and speech-to-text conversion.
6. Develop text-to-speech functionality for responding to users.
7. Integrate OpenAI's Chat API to handle user queries intelligently and contextually.
8. Backend API development for managing time slots and appointments.
9. Refine the application, ensuring a smooth and polished user experience.

Testing (4 hours):

1. Conduct comprehensive integration testing to validate the complete workflow.
2. Test OpenAI's Chat API using manual prompt engineering techniques to fine-tune interactions.
3. User acceptance testing with a closed group.

Deployment (1 hour):

- Dockerization of the application
- Create an executable for ease of use and installation.

Conclusion:

This timeline encapsulates the diligent efforts and strategic milestones that contributed to the development of Dr. Walnut's Clinic Voice-Interactive Scheduling Assistant. The project's evolution from conception to deployment showcases my commitment to delivering a user-centric, technologically advanced solution for appointment scheduling.