

UBIK AI Assistant Project Progress Report

Completed Tasks (as of July 9, 2025)

- UI Design
 - Designed an intuitive and visually appealing interface for the 3D animated chatbot.
 - Created user-friendly quiz and instruction pages with responsive layouts.
- Flask Backend Setup
 - Configured Flask backend with all necessary endpoints for chatbot and quiz functionality.
 - Ensured secure and efficient routing for API interactions.
- Gemini Flash 2.0 Integration
 - Integrated Gemini Flash 2.0 API for chatbot responses.
 - Configured API to restrict chatbot answers to UBIK Solutions' scraped data.
- Web Scraping of UBIK Content
 - Scraped relevant content from UBIK Solutions' website.
 - Organized data to support accurate and context-specific chatbot responses.
- Quiz Setup and Feedback Scoring Logic
 - Developed a 5-question quiz module with dynamic question rendering.
 - Implemented scoring logic using Gemini API to evaluate user responses and provide feedback.
- Summary Generation
 - Built functionality to generate a comprehensive summary report after quiz submission.
 - Included detailed feedback and performance metrics in the report.

Upcoming Tasks (Thursday and Friday)

- Thursday, July 10, 2025
 - Add Blend Shape Animations for Avatar
 - * Implement blend shape animations to enhance the 3D chatbot's expressiveness.
 - * Ensure animations align with user interactions for a lifelike experience.
 - Finalize Quiz Submission and Result Summary
 - * Refine quiz submission process to ensure a smooth user experience.
 - * Enhance summary report with polished formatting and additional insights.
- Friday, July 11, 2025

- Make Avatar Talk Using TTS
 - * Integrate Text-to-Speech (TTS) to sync avatar lip movements with Gemini API responses.
 - * Test audio-visual synchronization for seamless communication.
- Deploy Flask App
 - * Deploy the Flask application to a production environment.
 - * Conduct thorough testing to ensure stability and performance.

Final Deliverables (Due Friday, July 11, 2025)

- Fully functional 3D animated chatbot with blend shape animations and TTS integration.
- Polished quiz module with seamless submission and detailed summary reports.
- Deployed Flask application with all endpoints operational.
- Comprehensive documentation for the application, including setup and usage instructions.