HermosoWeb – Day 3 Project Report

Project Name: HermosoWeb
Project Description: Affordable website development platform powered by students and AI

Team Members:

Sachin Sourav
Rounaque Afroz

Day 3: Frontend–Backend Integration & AI Chatbot Setup

Date: Day 3 (22/12/2025)

Objective of the Day

The main objective of Day 3 was to integrate the frontend with the backend APIs, test database connectivity, and begin implementation of an AI-powered chatbot using the Gemini API for handling basic client queries.

Work Distribution & Contributions

☐ Sachin Sourav

- Integrated frontend forms with backend APIs using JavaScript `fetch()` method.
- Implemented data flow from frontend to Node.js backend and MySQL database.
- Tested successful insertion of client data into MySQL tables.
- Configured **Gemini API key** in backend environment variables.
- Integrated **Gemini AI model (gemini-2.5-flash-lite)** for chatbot responses.
- Implemented basic AI prompt handling for client queries.
- Tested chatbot responses for common website-related questions.
- Performed end-to-end testing of frontend, backend, database, and AI chatbot.

☐ Rounaque Afroz

- Assisted in frontend validation and improving user experience during form submission.
- Helped test chatbot interaction and response accuracy.
- Worked on improving UI feedback for chatbot responses.
- Assisted in debugging API and AI integration issues.
- Contributed ideas for future AI enhancements and chatbot training improvement.

Technologies Used on Day 3

- HTML5 – Frontend structure
- CSS3 – Responsive and modern styling
- JavaScript – Frontend logic & API integration
- Node.js – Backend runtime
- Express.js – API handling
- MySQL – Database management
- **Gemini API** – AI integration
- **Gemini Model: gemini-2.5-flash-lite** – AI chatbot responses

Outcome of Day 3

- Frontend and backend successfully integrated.
- Client data stored correctly in MySQL database.
- AI-powered chatbot successfully implemented using Gemini API.
- A complete working prototype of the HermosoWeb platform was achieved.

Next Plan

- Improve chatbot training and prompt optimization.
- Add authentication and admin dashboard.
- Implement CRUD operations and project tracking.
- Enhance AI-based quality checking features.

Prepared By:
Sachin Sourav & Rounaque Afroz

Sachin Sourav – GitHub: https://github.com/Sachin-SOURAV-007/HermosoWeb/tree/main
Rounaque Afroz – GitHub: https://github.com/afrozrounaque73-gif/HermosoWeb