HermosoWeb – Day 2 Project Report

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

Team Members:

- Sachin Sourav
- Rounaque Afroz

Day 2: Backend Setup & Database Integration

Date: Day 2(18/12/2025)

Objective of the Day

The main objective of Day 2 was to set up the backend environment using Node.js and Express, establish a connection with the MySQL database, and prepare APIs to connect frontend forms with the backend for data handling.

Work Distribution & Contributions

☐ Sachin Sourav

- Installed and configured **Node.js** and **Express.js** backend environment.
- Created backend folder structure and main server file (`server.js`).
- Implemented a basic Express server and tested it on a local port.
- Designed initial **MySQL database schema** for:
    - User inquiries
    - Website requests
    - Client contact forms
- Established MySQL database connection using `mysql2` package.
- Created basic backend APIs to:
    - Receive form data from frontend
    - Store client details in MySQL database
- Tested APIs using browser and backend logs.

☐ Rounaque Afroz

- Assisted in backend logic planning and API flow design.
- Worked on validating form inputs before sending data to backend.
- Helped in structuring database tables with proper fields and data types.
- Contributed ideas for secure backend practices and future scalability.

- Provided support in testing backend routes and debugging errors.

Technologies Used on Day 2

- **Node.js** – Backend runtime environment
- **Express.js** – Server and API creation
- **MySQL** – Database for storing client data
- **JavaScript** – Backend logic and API handling

Outcome of Day 2

- Backend server successfully created and running.
- MySQL database connected with Node.js backend.
- Frontend-ready APIs prepared for form submission.
- Project moved from static frontend to a dynamic full-stack architecture.

Next Plan (Day 3)

- Connect frontend forms directly with backend APIs.
- Implement CRUD operations for client requests.
- Improve backend validation and error handling.
- Start integration planning for AI-powered chatbot using NLP/LLM.

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