Training Day 1 Report

Date: 26 June 2025

Topic Covered: Introduction to the MERN Stack and Project Overview

Today marked the first day of our MERN stack training, focused on understanding the four technologies that make up the stack — **MongoDB**, **Express.js**, **React.js**, and **Node.js** — and getting an overview of the Notes App we will be building.

What is the MERN Stack?

The MERN stack is a popular set of technologies used to build full-stack web applications:

- **MongoDB** – A NoSQL database used to store data in a flexible, JSON-like format.

- **Express.js** – A lightweight Node.js framework for building APIs and handling backend logic.

- **React.js** – A JavaScript library for building dynamic, component-based user interfaces.

- **Node.js** – A JavaScript runtime environment that allows running JavaScript on the server side.

How MERN Works Together

The MERN stack connects the frontend and backend as follows:

1. **React** handles the user interface and sends requests to the backend.

2. **Express** in **Node.js** processes the requests and interacts with **MongoDB**.

3. The backend sends responses back to the frontend to update the UI.

Notes App Overview

The project we will build is a simple but fully functional **Notes App** with:

- Adding new notes

- Viewing a list of notes

- Editing existing notes

- Deleting notes

The app will be built step-by-step, starting with the backend API, then connecting it to the React frontend.

Outcome of the Day

- Understood what each part of the MERN stack does.

- Learned how the technologies connect to form a full-stack application.

- Reviewed the main features of the Notes App we will be building.