**IT ELECTIVE 3**

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**1. Date and Week Number**  
**May 3, 2025 (Saturday)**

On this day, Sir taught me about MVC (Model-View-Controller) architecture and several other important programming concepts. I learned a lot from him during that session. He explained the structure of MVC in a deeper and clearer way, which helped me understand how data flows in a web application—from the user interface (View), through the application logic (Controller), and into the data management (Model). It made me realize how this architecture helps in organizing code more efficiently.

After that, he also discussed user authentication and the importance of implementing safety measures when handling login features. He emphasized why security should never be overlooked, especially when dealing with sensitive user data. This added a new layer of awareness for me, not just about coding, but also about responsibility in development.

**May 4, 2025 (Sunday)**

I spent Sunday watching tutorial videos and began working on the initial design and development of our login page and its user interface. I applied the concepts I learned from Sir and tried to visualize how the login process would function, step-by-step. It was both challenging and exciting to start turning theory into actual code. I also explored different layout ideas to make the UI user-friendly and intuitive.

**2. Roadblocks Encountered**

The first challenge I encountered was our Wi-Fi connection being cut off because it hadn’t been paid, which forced me to rely on mobile data through my phone's hotspot. The internet speed was slower than usual, which made it difficult to download dependencies and load tutorials quickly.

I also ran into several small but frustrating coding issues, particularly with syntax errors. I often forgot to place semicolons and commas, which led to bugs that were time-consuming to trace. In addition, I had a bit of trouble connecting my code to the database, which took me extra time to resolve.

**3. How I Overcame the Challenge**

I brainstormed different ways to gain internet access, but in the end, I had no choice but to use my phone’s hotspot. Despite the slow connection, I managed to continue with my work and make progress. This experience taught me the value of adapting to situations and not letting limitations stop me.

When it came to debugging, I improved my method by carefully reading error messages. This helped me locate where the issues were in my code. I learned that debugging is not just about trial and error, but also about developing logical thinking and patience. I also revisited some previous lessons and online forums to look for solutions, which was a big help in solving the database connection issue.

**4. Technical Knowledge Gained**

One important lesson I learned this week is the importance of consistency. Avoid cramming and rushing the coding process. The faster you try to finish without careful checking, the more errors you are likely to encounter. Slow and steady often results in cleaner and more functional code.

**New Skills:** I learned a more efficient way to connect MySQL (using XAMPP) to Visual Studio Code. This skill is very useful for backend development and is a step forward in becoming a competent full-stack developer. I also became more familiar with MVC architecture and how authentication logic works, which gave me a more professional understanding of how web apps function behind the scenes.

**5. Connection to Full-Stack Web Development**

Through this week’s experience, I’ve become even more motivated to study full-stack development more seriously. Understanding both the frontend and backend components, and how they interact with each other, has given me a clearer vision of how professional web applications are built. It made me realize that each part—design, logic, security, and data—plays a crucial role in creating a complete, functional system.

This growing knowledge makes me excited to learn more. Every lesson and hands-on experience I gain is a building block toward becoming a skilled full-stack web developer. Even the setbacks I faced this week have become valuable learning experiences that I will carry with me in future projects.

**6. Goals and Action Plan for Next Week**

Next week, I plan to attend Sir’s upcoming class on Saturday. I am eager to see what new topics and lessons he will cover. In the meantime, I will continue practicing what I’ve learned, especially in improving the login system we started. I also want to start reviewing some basic backend logic in preparation for more advanced lessons. My goal is to not only attend class but also apply the knowledge in meaningful ways to strengthen my full-stack development skills.