**Individual Weekly Report – Week 4**

**Project: E-commerce Web Application TechPlaza**

**Role: Full Stack Developer, Software Architect**

**Completed Tasks:**

1. The backend application API for TechPlaza has been defined in collaboration with Jon.
2. The API design aligns with the functional requirements and ensures seamless integration between the frontend and backend components.
3. The API endpoints, request/response formats, and authentication mechanisms have been established, providing a clear roadmap for backend development.
4. The API design emphasizes scalability, performance, and security, allowing for efficient and secure data exchange between the client and server.

**Ongoing/In-Progress Tasks:**

1. The process of creating activity diagrams for TechPlaza has begun.
2. Activity diagrams will visually represent the system's activities and processes, providing a clear understanding of the flow and interactions within the application.
3. The ongoing work involves identifying key activities and their relationships, modeling various scenarios and user interactions, and capturing the sequential flow of operations.
4. Activity diagrams will serve as a valuable tool for communication, ensuring a shared understanding among the project team and stakeholders.