**Individual Weekly Report – Week 3**

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

**Role: DevOps Engineer**

**Completed Tasks:**

1. **Extended User Scenarios:** Created and implemented extended versions of the user scenarios, detailing step-by-step interaction flow for functionalities such as user registration, password changes, vendor registration, product addition, customer/vendor listing, product/vendor searching, vendor detail updates, and product detail updates.
2. **CI/CD Pipeline Integration in GitHub**: Integrated the detailed user scenarios into the CI/CD pipeline. This allows the automated testing of the scenarios with each code commit, ensuring that all functionality works as expected and that any errors or bugs are detected early.

**Ongoing/In-Progress Tasks:**

1. **Automated Testing:** Setting up automated testing scripts within the CI/CD pipeline to test new code commits against the outlined user scenarios.
2. **Infrastructure Setup**: Continued work on setting up and fine-tuning the development, staging, and production environments. Emphasis is being placed on creating parity between the environments to ensure smooth code deployments.

**Issues/Challenges:**

**Issue 1:** Adjusting the CI/CD pipeline to handle the detailed user scenarios without slowing down the integration and deployment process. Optimization of the pipeline is being continuously done to maintain efficiency.