**Individual Weekly Report – Week 2**

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

**Role: DevOps Engineer**

**Completed Tasks:**

1. **User Scenarios:** Created and implemented ten distinct user scenarios to help guide development and testing. These scenarios include:

* US\_01 User Registration
* US\_02 Change Password
* US\_03 Vendor Registration
* US\_04 Adding a New Product
* US\_05 Customer Listing
* US\_06 Vendor Listing
* US\_07 Searching for a Product
* US\_08 Searching for a Vendor
* US\_09 Update Vendor Details
* US\_10 Update Product Details

1. **CI/CD Pipeline:** Continued to build out the CI/CD pipeline with focus on testing for the above user scenarios.

**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.
3. **Monitoring System**: Continued planning of the monitoring and alerting system, focusing on areas critical to user experience like registration, product listing and searching, and vendor interaction.

**Issues/Challenges:**

**Issue 1:** Balancing the needs of vendors and customers within the infrastructure design. Working closely with the development team to ensure an optimized and responsive platform for all users.