**Marketplace Hackathon 3- Day 6 Summary**

**Objective:** Prepare my marketplace for deployment by setting up a staging environment, configuring hosting platforms, and ensuring a production-ready application.

**Key Learning Outcomes:**

1. Set up a staging environment using Vercel or Netlify.
2. Securely configure environment variables.
3. Perform functional, performance, and security tests.
4. Document deployment, test results, and performance analysis.
5. Organize project files in a structured GitHub repository.

**Implementation Steps:**

**1. Hosting Platform Setup:**

* Choose a hosting platform (Vercel/Netlify).
* Connect GitHub repository and configure settings.

**2. Environment Variables Configuration:**

* Secure API keys and credentials using .env files.
* Upload variables to the hosting platform.

**3. Deploy to Staging:**

* Deploy the application.
* Validate build success and app functionality.

**4. Staging Environment Testing:**

* **Functional Testing:** Check product listings, search, and cart operations.
* **Performance Testing:** Use Lighthouse.
* **Security Testing:** Ensure HTTPS, validate input fields, and secure API keys.
* **Test Case Documentation:** Maintain test reports in CSV format.

**5. Documentation Updates:**

* Create **README.md** summarizing six days of work.
* Include reports, test cases, and deployment steps in GitHub.

**Expected Output:**

1. Fully deployed staging environment.
2. Secure environment variable setup.
3. Test reports and performance documentation.
4. Well-structured GitHub repository.
5. Professional **README.md** summarizing the project.

# Conclusion:

**Conclusion:** Day 6 marks a crucial step in ensuring my marketplace is ready for deployment. By setting up a staging environment, conducting rigorous testing, and documenting every aspect of the project, I ensure a seamless transition to production.