Day 6 - Deployment Preparation and Staging Environment Setup

Objective:

Day 6 focuses on preparing your marketplace for deployment by setting up a staging environment, configuring hosting platforms, and ensuring readiness for a customerfacing application. Building on the testing and optimization work from Day 5, this stage emphasizes ensuring the marketplace operates seamlessly in a production-like environment

Steps to be done

1.Deployment Strategy Planning

• Choose a hosting platform like Vercel (Recommended), Netlify, AWS, or Azure for staging

. • Finalize the application's interaction with backend services such as Sanity CMS and third-party APIs.

2. Environment Variable Configuration

• Secure API keys, database credentials, and sensitive data using .env files.

• Configure environment variables in the hosting platform for secure deployment

3.Staging Environment Setup

• Deploy the application to a staging environment to test it in a production-like setting.

• Validate that deployment builds successfully and the site loads correctly.

4. Staging Environment Testing

• Conduct functional, performance, and security testing. For functional testing, use tools like Cypress to test workflows and interactions, and Postman to validate API responses. Performance testing can be done with Lighthouse or GTmetrix to analyze load times, speed, and responsiveness. For security testing, validate input fields to prevent SQL injection, ensure HTTPS is enabled, and check for proper handling of sensitive data like API keys.

• Verify responsiveness and error handling

. • Document all test results and unresolved issues.

5. Documentation Updates

• Create a README.md file summarizing all six days of activities.

• Include all reports, test cases, and deployment instructions in a structured GitHub repository.