DAY 6 - DEPLOYMENT PREPARATION AND STAGING ENVIRONMENT SETUP

Objective:

Prepare the marketplace for deployment by setting up a staging environment, configuring hosting platforms, and ensuring readiness for a customer-facing application. This involves testing the application in a production-like environment to identify and resolve any pre-deployment issues.

Organized GitHub Repository:

Structuring project files with a clear folder hierarchy and a detailed README.md file.

```
Configure build
```

Configure Environment Variables

Create a .env File: Include sensitive variables like API keys:

```
v-app > $ .env.local
  NEXT_PUBLIC_SANITY_PROJECT_ID="uxu14cqp"
  NEXT_PUBLIC_SANITY_DATASET="production"
  SANITY_API_TOKEN="sskyDuo2KfAMWKOGANXsFQqAiattVMPcmHZK6HxaWqWuB4rLHcvSUJXCUEKFoOeKv6nJcmYyI2TshV
```

Upload Variables to Hosting Platform:

Use the hosting platform's dashboard for secure storage.

Deploy Application:

Deploy the application to a staging environment

Validate Deployment:

Ensure the build process completes successfully.

Verify basic functionality in the staging environment.

Staging Environment Testing

Testing Types:

Functional Testing: Use tools like Cypress to test workflows.

Performance Testing: Analyze speed with Lighthouse

Security Testing: Validate input fields, HTTPS usage, and secure API communications.

Test Case Reporting: Document results in a CSV file:

Test Case ID	Description	Steps	Expected Result	Actual Result	Status	Remarks
TC001	Validate product listing	Open product page	Products displayed	Products displayed	Passed	No issues found
TC002	Test API error handling	Disconnect API > Refresh	Show fallback message	Fallback message shown	Passed	Handled gracefully
TC003	Check cart functionality	Add item to cart	Cart updates correctly	Cart updates correctly	Passed	Works as expected