DAY 6 - DEPLOYMENT PREPARATION AND STAGING ENVIRONMENT SETUP

On Day 6, the focus is on preparing your marketplace for deployment by setting up a staging environment, configuring a hosting platform, and ensuring the application is fully ready for customers. Building on the testing and optimization efforts from Day 5, this stage ensures that your marketplace runs smoothly in a production-like environment.

Key tasks include:

- Setting up a staging environment to mirror the production setup.
- Choosing a hosting platform (e.g., Vercel, Netlify, AWS, or a custom server).

- Configuring environment variables for secure API integration.
- Testing deployment readiness, including performance checks and bug fixes.
- Ensuring seamless operation for real users before going live.

Step 1: Hosting Platform Setup

 Choose a Platform : Use Platform Like Vercel or Netlify for Quick Deployment

Step 2: Configure Environment Variables

Create a .envFile: Include sensitive variables likeAPI key and tokens.

NEXT_PUBLIC_SANITY_PROJECT_ID = "your project id" NEXT_PUBLIC_SANITY_DATASET= production
 API_KEY = "your api key"

Step 3: Deploy to Staging

 Deploy Application: Deploy the Application to a string environment through the hosting platform.

Step 4: Staging Environment Testing

1:Testing Types:

- Functional Testing: Verify all features, such as product listing, search, and cart operations.
- Performance Testing: Use Lighthouse or GTmetrix to analyze speed and responsiveness.
- Security Testing: Validate input fields, HTTPS usage, and secure API communications.

Step 5: Documentation Updates

Create README.md: Summarize all projects activities, including deployment steps and test case result.

TEST CASE REPORT:

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks	
2	TC001	Validate product listing page	Open product page > Verify	Products displayed	Products displayed correctly	Passed	high	-	No issues found
3	TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error	Error message shown	Passed	Medium	-	Handled gracefully
4	TC003	Check cart functionality	Add product to cart > Verify	Cart updates with added	Cart updates as expected	Passed	High	-	Works as expected
5	TC004	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	Medium	-	Test successful