Day 6 ____ Deployment Preparation & Staging Environment Configuration

[Muhammad Kamran]

1) Hosting Platform Setup & Configuration

   a) Platform Chosen Vercel:

   b) Integration with GitHub:
https://github.com/KamranYT/hack3-.git

   c) Build Setting: Custom build setting were applied for optional performance and security.

   d) Environment Variables: Specific environment variables were added for secure deployment configuration.

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2) Secure Environment Variables Configuration

   a) Created a .env.local file containing key environment variables for secure handling:

. NEXT_PUBLIC_SANITY_PROJECT_ID="projectId"

. NEXT_PUBLIC_SANITY_DATASET="productiom"

. SANITY_API_TOKEN="sanity token"

b) Vercel Upload: Securely uploaded environment variables for the deployment.

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Day 6 ___ Deployment Preparation & Staging Environment Configuration

3) Deploy to Staging

a. The application was deployed to vercel's staging environment.

b. Deployment Status: The build process completed without issues.

c. Site Loading Test: Thoroughly verified that the staging site loaded and functioned correctly.
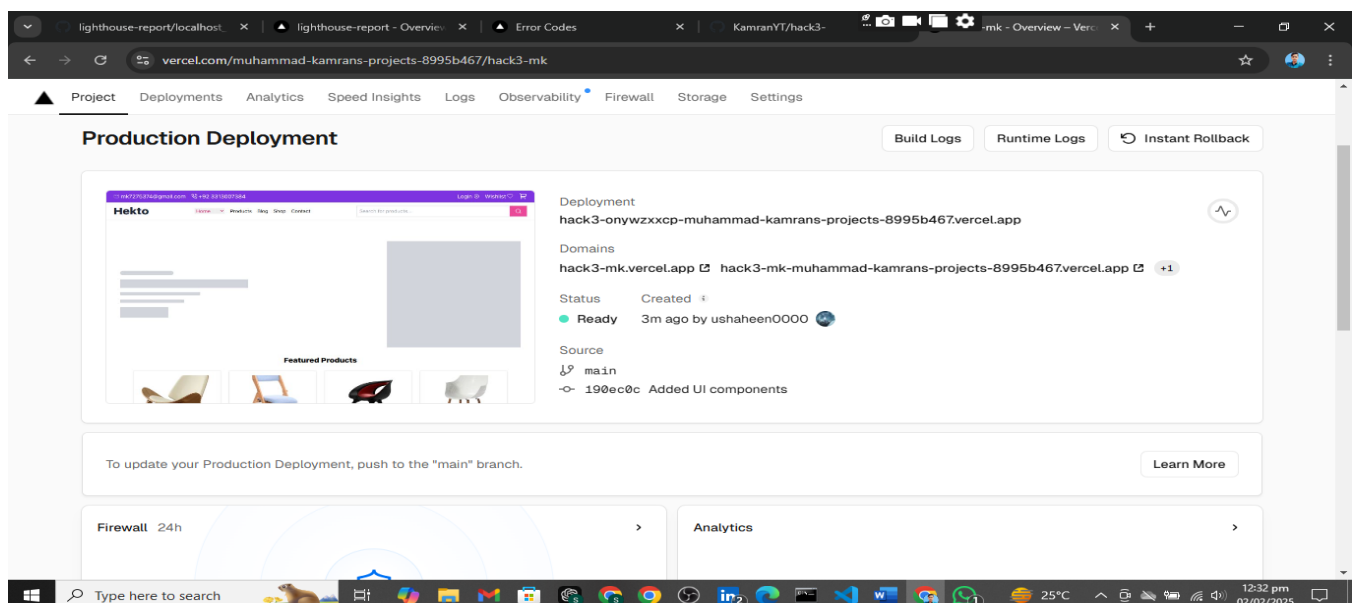
Day 6 ___ Deployment Preparation & Staging Environment Configuration

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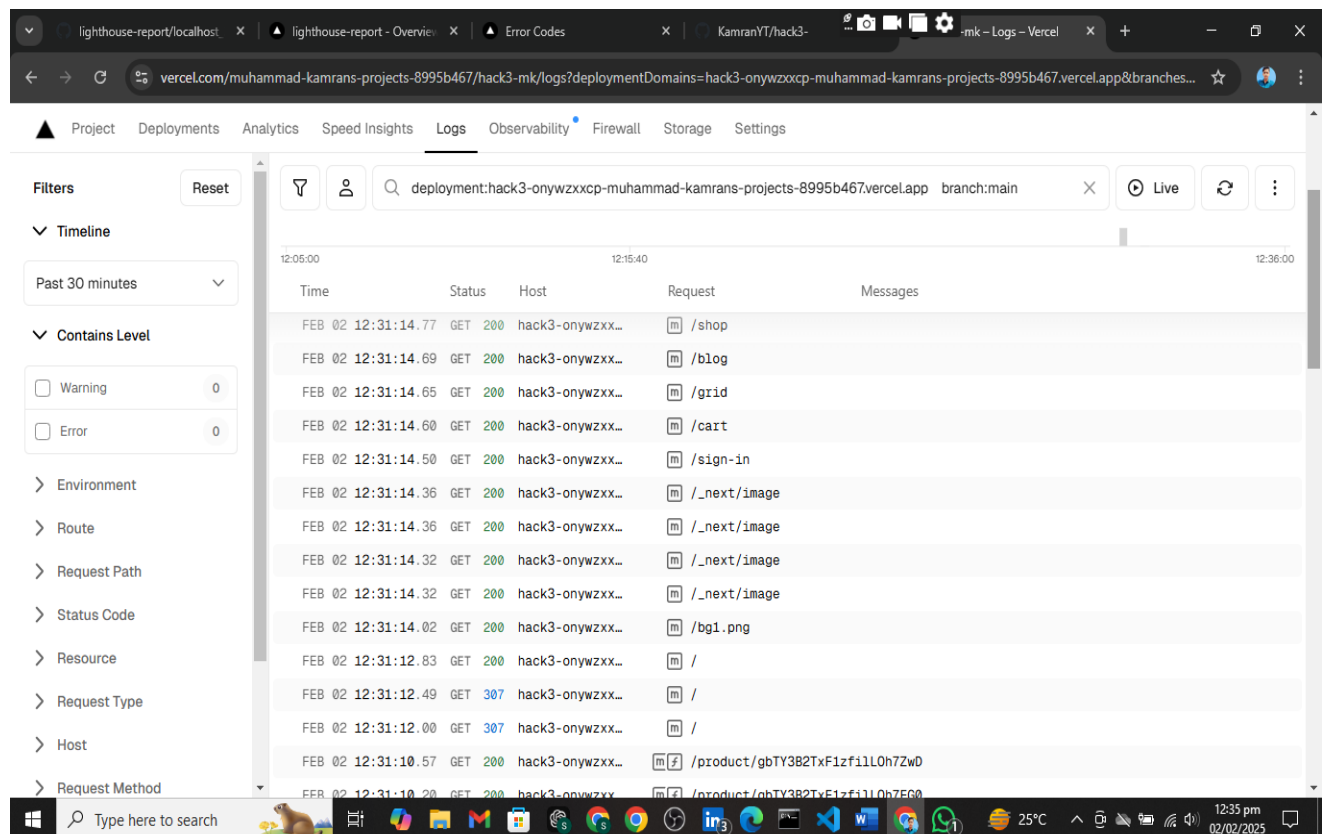
4) Staging Environment Testing

1) Testing Types

a. *Functional Testing*: **Verified all features, such as product listing, search & cart operations.** ✓

b. *Performance Testing:* **Used Lighthouse to analyze speed and responsiveness.** ✓

c. *Security Testing:* **Validated input fields, HTTPS usage, and secure API communications.** ✓

2) Test Case Reporting:

a. *All test cases in a CSV file.*

Day 6 ___ Deployment Preparation & Staging Environment Configuration

| Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Remarks
TC001	Product Listing - Image Fetch Failure	1. Go to product listing. 2. Simulate network issue.	Product images should load correctly	Error message "Image fetch failed" appeared due to network issue.	Failed	Medium	Fixed by resolving the network issue.
TC002	Checkout Process with Missing Cart Items	1. Attempt to checkout with no items in the cart. 2. Verify error message.	A message should appear saying "Your cart is empty."	"Cart is empty" message appeared correctly.	Passed	Low	Checkout Functionality worked as expected
TC003	Product Search Functionality	Enter a search term Verify search results are relevant.	Relevant products related to search should appear.	Relevant results appeared for the search.	Passed	Medium	Search works correctly.
TC004	Error Handling for API Failure	Disconnect internet or simulate API failure.	Error message should appear.	Error message displayed as expected.	Passed	High	Error handling works successfully
TC005	Mobile Responsiveness	Verify that the product layout adapts correctly to all screen size.	Layout should be responsive across all devices	Layout was responsive on all screen sizes was no issues.	Passed	Low	Mobile version tested successfully.
TC006	Security - Input Validation for Email Field	Enter an invalid email address	Form should reject invalid email formats with an error message	Invalid email format was rejected with an error.	Passed	High	Email validation works as expected.
TC007	User Login with Incorrect Credentials	1. Enter incorrect username/password.	User should see an error message: "Invalid username or password."	Error message displayed correctly.	Passed	Medium	Handled Successfully as expected.

3) Performance Teting:

Performance Testing Report **Desktop Screen:**

Day 6 ___ Deployment Preparation & Staging Environment Configuration
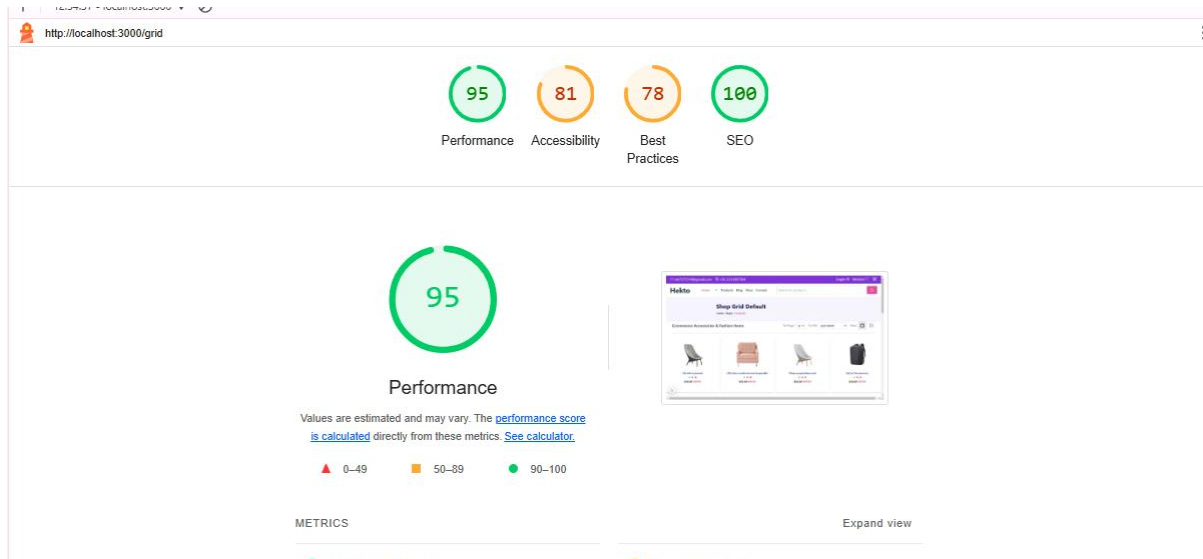
Performance Testing Report **Mobile Screen:**

. Mobile Responsiveness: **Conducted tests to confirm mobile-friendly behavior.**
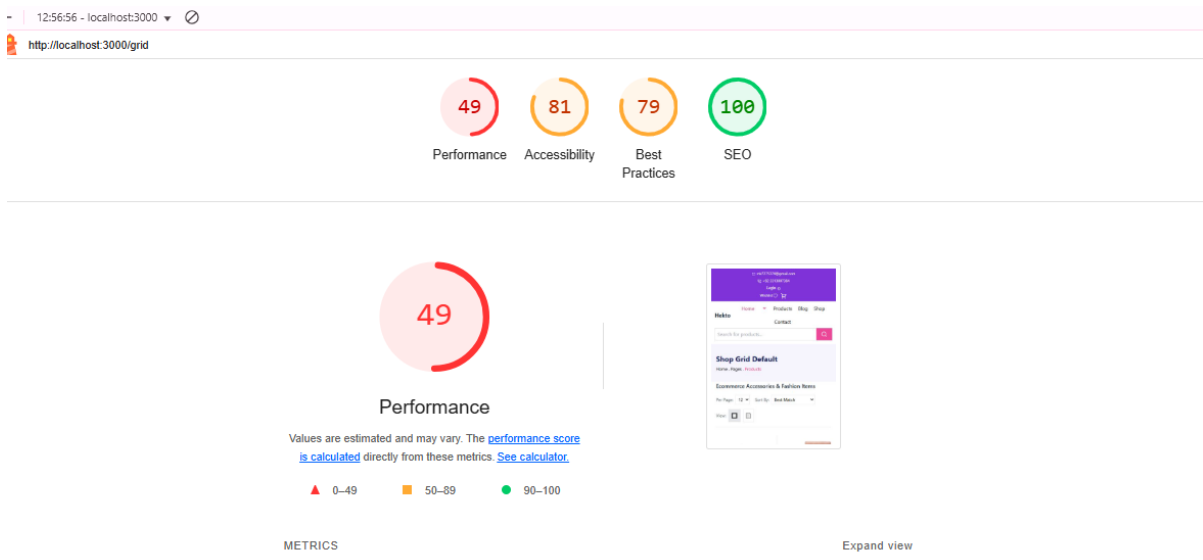
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Checklist for Day 6:

Deployment Preparation: ✓

Staging Environment Testing: ✓

Documentation: ✓

Form Submission: ✓

Final Review: ✓