Day 5 - Testing and Backend Refinement - [Your Marketplace Name]

NAME: Mahnoor Ansari

Functional Testing:

- Functional testing checks if all features and functions of the application work as expected.
- It focuses on testing user actions like clicking buttons, submitting forms, and navigating pages.
- The goal is to ensure the application meets the requirements and provides a smooth user experience.
- It is done by simulating real-world scenarios and checking the results.

Error Handling:

- Error handling ensures the application responds properly when something goes wrong.
- It includes showing user-friendly error messages instead of crashing the app.
- This helps identify issues quickly and improves the overall user experience.

For Example:

```
try {

const response = await fetch(' ....');

 if (!response.ok) {

throw new Error("Failed to fetch data");

 }
```

```
    const data = await response.json(); console.log(data);

  } catch (error)

  {  console.log('Error:', error.message); }
```

Performance Testing:

Performance analysis of your website, including loading times, accessibility, SEO, and best practices.

  Performance : 29

  Accessibility: 86

  Best Practices: 100

 SEO:84

Performance Testing Tools:

  Lighthouse

  GTmetrix

  WebPageTest

User Acceptance Testing (UAT):

       User Acceptance Testing (UAT) is the process where the end users test the software to ensure it meets their requirements and works as expected. It helps to identify any issues before the software goes live. During UAT, users check if the features, design, and functionality align with their needs and business goals.

Testing Report (CSV Format):

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	Products displayed correctly	Products displayed correctly	Passed	High	Handled gracefully
3 TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	Handled gracefully
4 TC003	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	Medium	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	Works as expected

NOTE:

This document will be updated later as needed.