Hackathon Day 4: Testing , Error Handling And Backend Integration Refinement

Object: The marketplace for real-world deployment by ensuring all components are thoroughly tested, optimized for performance, and ready to handle customer-facing traffic

Primary Focus and Action Plans

1. Functional Testing
2. **Navigation**: Ensure smooth navigation across different sections of the website
3. **Product Listing Page**: Ensure products are displayed correctly and filters/pagination are working as expected
4. **Product Detail Page**: Check that the product detail page opens properly and all details (images, description, price, etc.) are displayed
5. **Add to Cart**: Ensure the "Add to Cart" button is functioning properly and the product is accurately added to the cart

2. Error Handling

1. **Form Validation Error**: Incorrect user input triggers an error message.
2. **Catch-Try Handle Error**: Errors are handled using try-catch block.
3. **JS Error**: Issues like undefined variables cause errors.
4. **Debugging Error**: Analyzing code to fix errors

3. Performance testing

1. Performance : 100
2. SEO : 100
3. Accessibility : 64
4. Best Practices : 93

4. Cross Browser and Device testing

1. **Cross-browser testing**: Ensure website renders and functions correctly on all browsers.
2. **Cross-device testing**: Verify website is responsive and works well on mobile, tablet, and desktop.
3. **Compatibility**: Check for issues specific to browsers or devices
4. User Acceptance testing (UAT)
5. Simulate real-world scenarios by interacting with your marketplace as a user. Verify that workflows like browsing, searching, and checkout are intuitive and error-free.
6. Documentation Updates
7. Document testing results, fixes, and best practices followed. Include detailed test reports summarizing key findings and resolutions. Ensure test reports are formatted professionally and follow market standards. Maintain a consistent format for headings and subheadings. Include a table of contents for easy navigation

CSV Based Testing Report

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Description | Expected Result | Actucal Result | Status | Severity | Remarks |
| TC001 | Navigation Link | Navigate Links are correctly | Correctly Navigate | Pass | Medium | None |
| TC002 | Product Listing Display | Product page Correctly Display | Product page Correctly Display | Pass | Medium | None |
| TC003 | Dynamic Product Details | Dynamic Pages are correctly Display | Dynamic Pages are correctly Display | Pass | High | None |
| TC004 | Add to Cart functionality | Add , remove , update are correctly | Add , remove , update are correctly | Pass | Hight | Functionality Proper work |
| TC005 | Analyze Performance Metrices | Performance Score above to 90 | Score : 100 | Pass | Medium | None |
| TC006 | Check Accessibility Features | Accessibility  Score BAove to 90 | Score : 63 | FAil | Low | Images optimizations |

CSV Content

Test Case ID,Description,Expected Result,Actual Result,Status,Severity,Remarks

TC001,Navigation Link,Navigate Links are correctly,Correctly Navigate,Pass,Medium,None

TC002,Product Listing Display,Product page Correctly Display,Product page Correctly Display,Pass,Medium,None

TC003,Dynamic Product Details,Dynamic Pages are correctly Display,Dynamic Pages are correctly Display,Pass,High,None

TC004,Add to Cart functionality,Add , remove , update are correctly,Add , remove , update are correctly,Pass,High,Functionality Proper work

TC005,Analyze Performance Metrics,Performance Score above to 90,Score : 100,Pass,Medium,None

TC006,Check Accessibility Features,Accessibility Score Above to 90,Score : 63,Fail,Low,Images optimization

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