

# Testing, Error Handling, and Backend Integration Refinement

This phase was all about ensuring the platform is robust, accessible, and ready for deployment.

## Key Highlights:

### 1- Comprehensive Testing:

Verified navigation, product listings, shopping cart, blog posts, and contact forms for seamless functionality.

### 2- Error Handling:

Implemented robust try-catch blocks, fallback UI for missing data, and systematic error logging to enhance user experience.

### 3- Performance Optimization:

Reduced server response times, lazy-loaded images, compressed assets, and achieved improved Lighthouse scores.

### 4- Cross-Browser & Device Compatibility:

Successfully tested on major browsers (Chrome, Firefox, Safari, Edge, Opera) across desktop, tablet, and mobile devices.

### 5- Security Enhancements:

Secured inputs, ensured HTTPS, and fortified the application using OWASP ZAP.

### 6- User Acceptance Testing (UAT):

Simulated real-world scenarios to improve workflows and refine usability.