

# HACKATHON\_DAY\_5: TESTING, ERROR-HANDLING, & BACKEND INTEGRATION REFINEMENT:

## STEP 1. FUNCTIONAL TESTING

## STEP 2. ERROR HANDLING

## STEP 3. POSTMAN API

GIVEN API ('https://template6-six.vercel.app/api/products');

| A            | B                               | C  | D                                      | E                                     | F      | G              | H           | I                  |
|--------------|---------------------------------|--|--|---------------------------------------|--------|----------------|-------------|--------------------|
| Test Case ID | Test Case Description           | Test Steps                                 | Expected Result                        | Actual Result                         | Status | Severity Level | Assigned To | Remarks            |
| TC001        | Validate product listing page   | Open product page > Verify products        | Products displayed correctly           | Products displayed correctly          | Passed | Low            | -           | No issues found    |
| TC002        | Test API error handling         | Disconnect API > Refresh page              | Show fallback UI with error message    | Error message shown                   | Passed | Medium         | -           | Handled gracefully |
| TC003        | Check cart functionality        | Add product to cart > Verify cart contents | Cart updates with added product        | Cart updates as expected              | Passed | High           | -           | Works as expected  |
| 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    |

TC001:WORK AS EXPECTED

TC002:HANDLE GRACEFULLY

TC003:NO ISSUE FOUND

TC004:TEST SUCCESSFULLY

## step1:FRONTEND TESTING

- NAVIGATION LINKS
- PRODUCT LISTING & DETAILING
- CART AND CHECKOUT FLOW

### TOOL USED:

- API RESPONSE TESTING
- REACT TESTING LIBRARY

## STEP2: ERROR HANDLING

- TRY CATCH BLOCKS TO HANDLE API HANDLE
- LOG ERROR
- API RESPONSE MAINTAIN USER TRUSTED INTERFACE

## STEP3:PERFOMANCE OPTIMIZATION

### DESCRIPTION:

### PERFOMANCE MATRICS:

- PERFOMANCE: 81%
- ACCESSIBILITY:100

- BEST PRACTICE : 86%
- SEO:84%