DAY 5 - REPORT ON TESTING, ERROR HANDLING, AND BACKEND INTEGRATION

Test Cases

1. **Test Case ID:** TC001
   Description: Verify homepage loads correctly with optimal performance.
   Expected Result: Homepage should load in under 3 seconds with no layout shifts.
   Status: Passed
   Severity: Low
   Remarks: Homepage loaded quickly with no issues.

2. **Test Case ID:** TC002
   Description: Verify Largest Contentful Paint (LCP) is within acceptable limits. Expected
   Result: LCP should be less than 1.2 seconds.
   Status: Passed Severity: Medium
   Remarks: LCP was 289 ms, which is well within limits.

3. **Test Case ID:** TC003
   Description: Verify total blocking time (TBT) during page load. Expected
   Result: TBT should not exceed 150ms.
   Status: Passed Severity: Low
   Remarks: TBT was 0ms, indicating excellent performance.

4. **Test Case ID:** TC004
   Description: Verify proper sizing of images to optimize loading time.
   Expected Result: All images should be properly sized to avoid excess load time.
   Status: Failed Severity: Medium
   Remarks: Improperly sized images found; potential savings of 1.97MB.

5. **Test Case ID:** TC005
   Description: Verify JavaScript efficiency during page load. Expected
   Result: No unused JavaScript should be present. **Status:** Failed
   Severity: Low
   Remarks: Unused JavaScript detected; potential savings of 47.6KB.

Test Case ID	Description	Expected Result	Status	Severity	Remarks
TC001	Verify homepage loads correctly with optimal performance.	Homepage should load in under 3 seconds with no layout shifts.	Passed	Low	Homepage loaded quickly with no issues.
TC002	Verify Largest Contentful Paint (LCP) is within acceptable limits.	LCP should be less than 1.2 seconds.	Passed	Medium	LCP was 289ms which is well within limits.
TC003	Verify total blocking time (TBT) during page load.	TBT should not exceed 150ms.	Passed	Low	TBT was 0ms indicating excellent performance.
TC004	Verify proper sizing of images to optimize loading time.	All images should be properly sized to avoid excess load time.	Failed	Medium	Improperly sized images found; potential savings of 1.97MB.
TC005	Verify JavaScript efficiency during page load.	No unused JavaScript should be present.	Failed	Low	Unused JavaScript detected; potential savings of 47.6KB.