Day 5 - TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT

On Day 5, the focus was on testing, optimizing, and refining the marketplace to ensure smooth deployment. Key tasks included:

- **Testing Backend Integrations:** ... d **Sanity** are properly connected an...
- **Error Handling Implementatio...** messages for failed payments, inv...
- **Performance Optimization:** Imp... strategies and optimized data fetc...
- **User Experience Refinement:** E... flow, and responsiveness for a se...

With these improvements, CottonCloud ... **and ready for real-world use**. The nex... **checks and deployment**.

Key Areas of Focus

1. Functional Testing

- Ensured all marketplace features ...
- Tested core functionalities, includ...
  - Product listing and detail p...
  - Cart operations and checko...
  - User profile management a...

Error Handling

- Implemented clear error message...
  - **Network failures**.
  - **Invalid or missing data**.
  - **Unexpected server errors**
- Added fallback UI elements like ...   ...o data is returned from the API.
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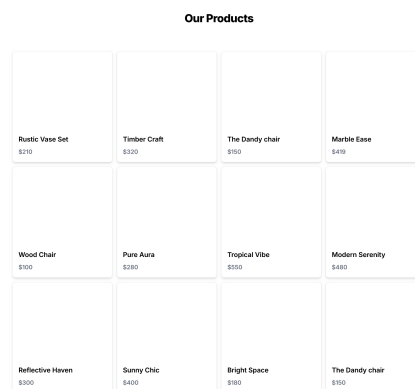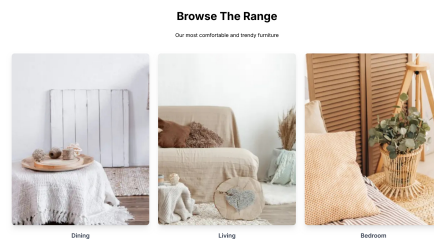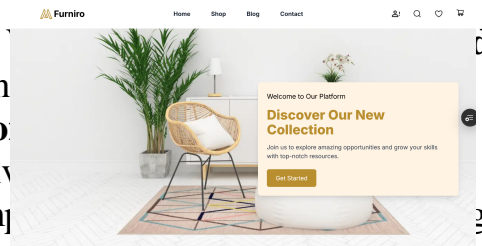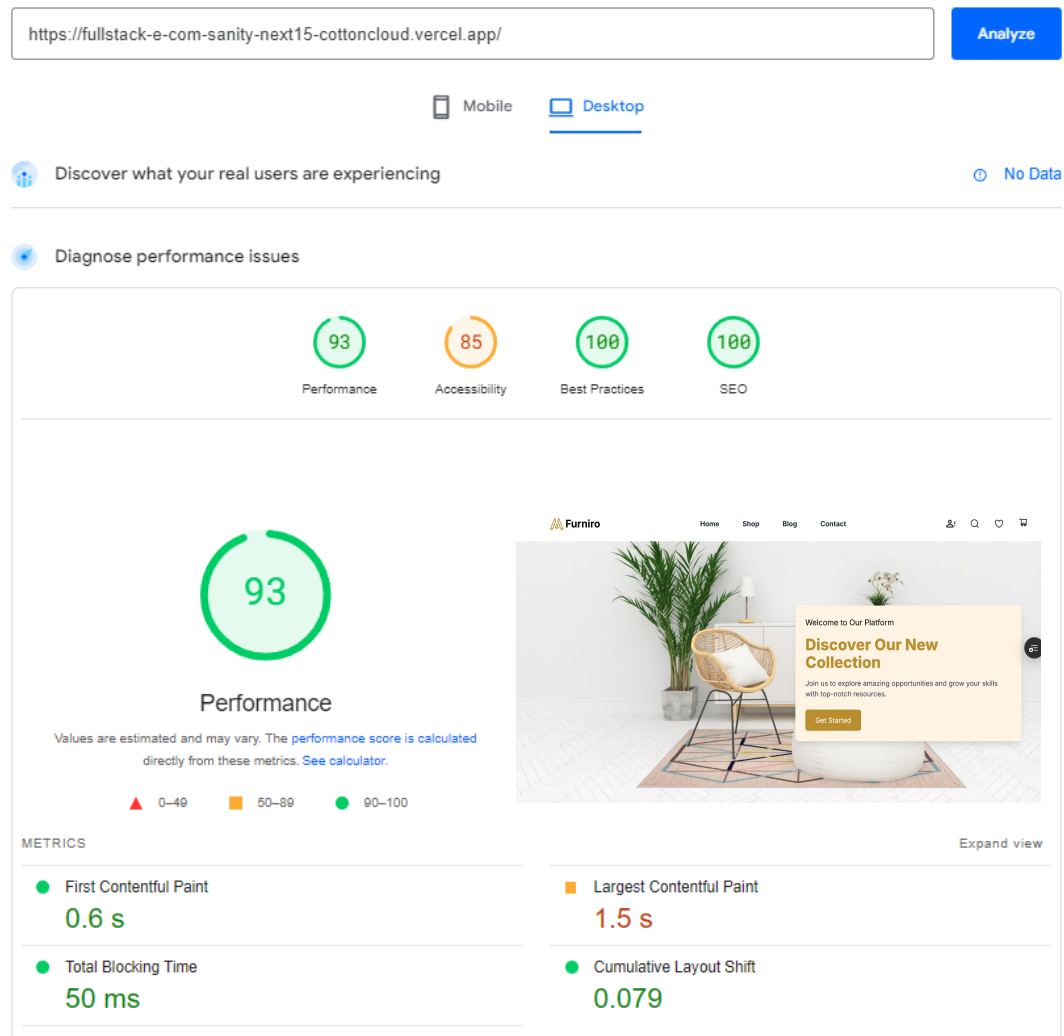
Performance Testing

- Conducted performance testing using **Google PageSpeed**.

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https://fullstack-e-com-sanity-next15-cottoncloud.vercel.app/

- Identified bottlenecks and optimized key areas, including:
  - **Image Optimization:** Compressed and resized images for faster loading.
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Cross-Browser and Device Testing

- Tested the marketplace on **Chrome, Firefox, Safari, and Edge** to ensure compatibility.
- Verified responsiveness across **desktop, tablet, and mobile** devices.

- Used **BrowserStack and LambdaTest** for accurate cross-device testing.
- Ensured a seamless user experience across all screen sizes.

Security Testing

- Implemented **input validation** to prevent injection attacks.
- Ensured all communication is over **HTTPS** for security.
- Verified that **API keys are not exposed** in the frontend code.

User Acceptance Testing (UAT)

- Simulated real-world user interactions to ensure a smooth experience.
- Verified that browsing, searching, and checkout workflows are **intuitive and error-free**.

Documentation Updates

- Recorded testing results, fixes, and best practices.
- Summarized key findings and resolutions in **detailed test reports**.
- Ensured reports follow **market standards** with a structured format.
- Maintained consistency in headings and subheadings.
- Added a **table of contents** for easy navigation.