Day 5 Submission Document - Marketplace Hackathon

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Project Name: Furniture Website - General E-Commerce

Objective:

Ensure the marketplace is fully tested, optimized, and ready for real-world deployment by focusing on testing backend integrations, error handling, and refining the user experience.

1. Functional Deliverables:

- Features Tested:

1. Product filters (e.g., "Chair," "Sofa") to display relevant products.

2. Cart operations (Add, Update, Remove) work as intended.

3. Responsiveness across various devices and screen sizes.

4. Checkout process, including adding items to the cart and proceeding to payment.

5. Performance metrics validated using Lighthouse.

- Screenshots of Functional Components:

Below are the screenshots showcasing key functional components of the application:

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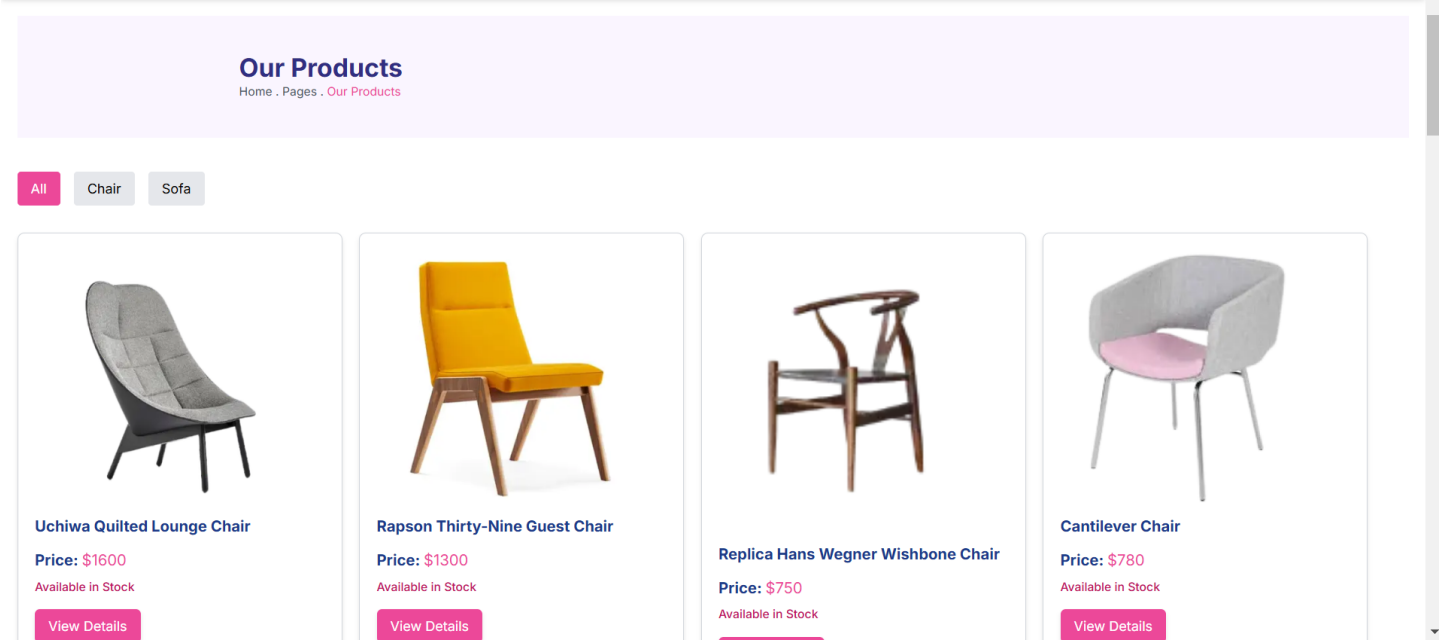

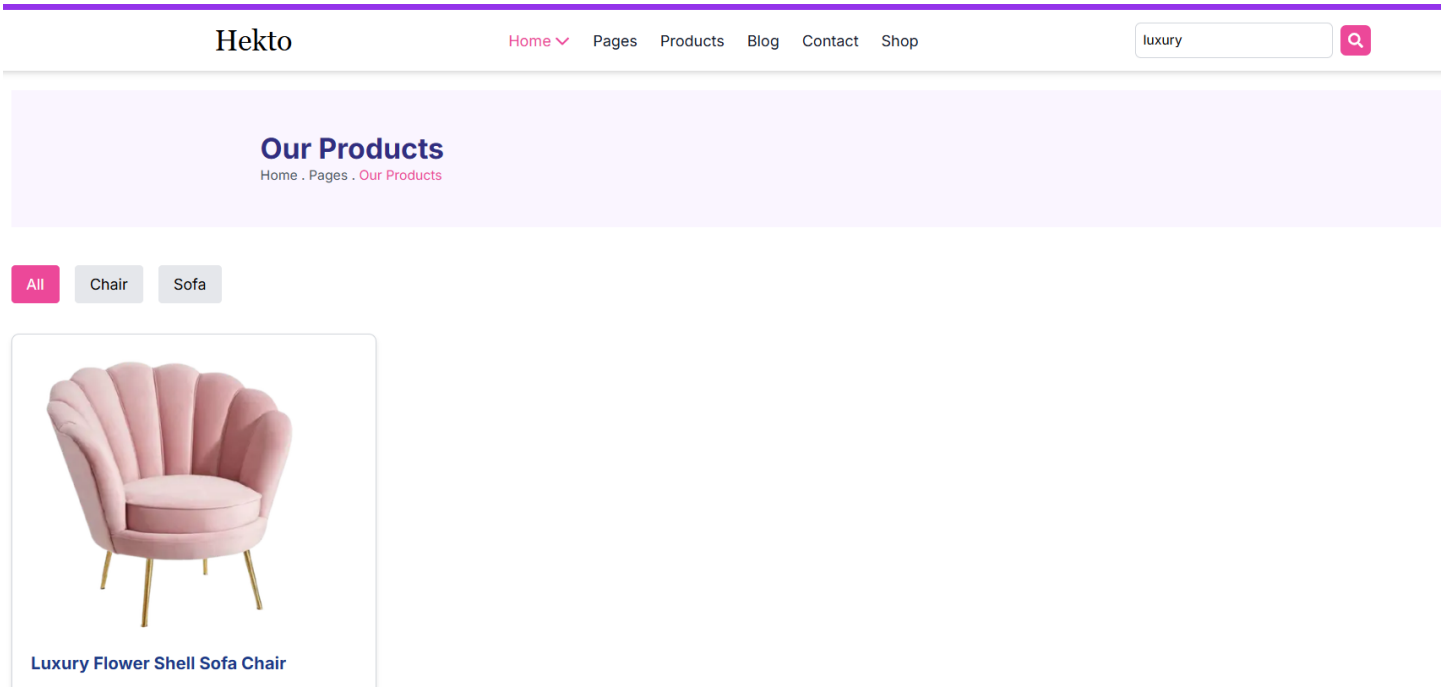

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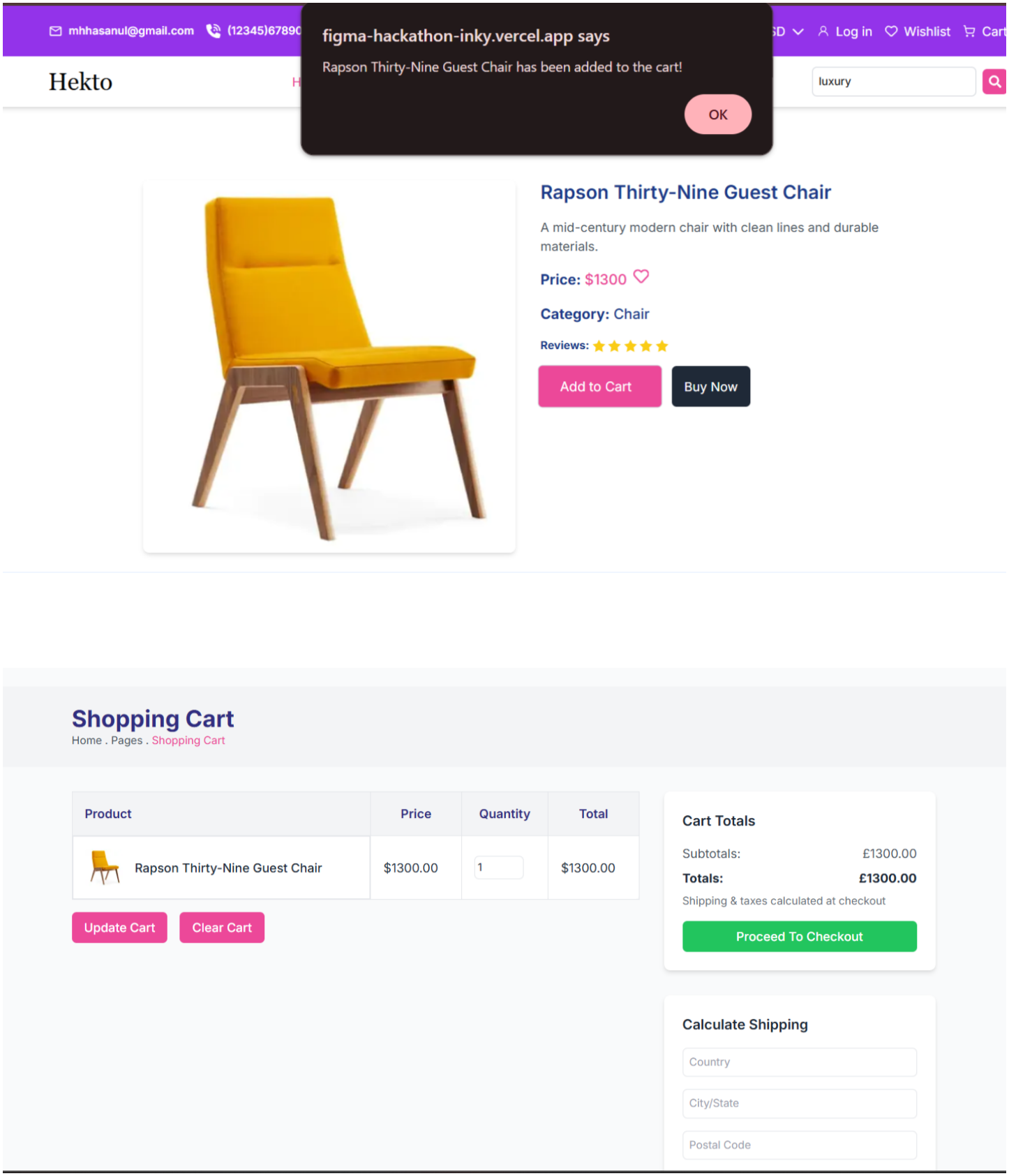

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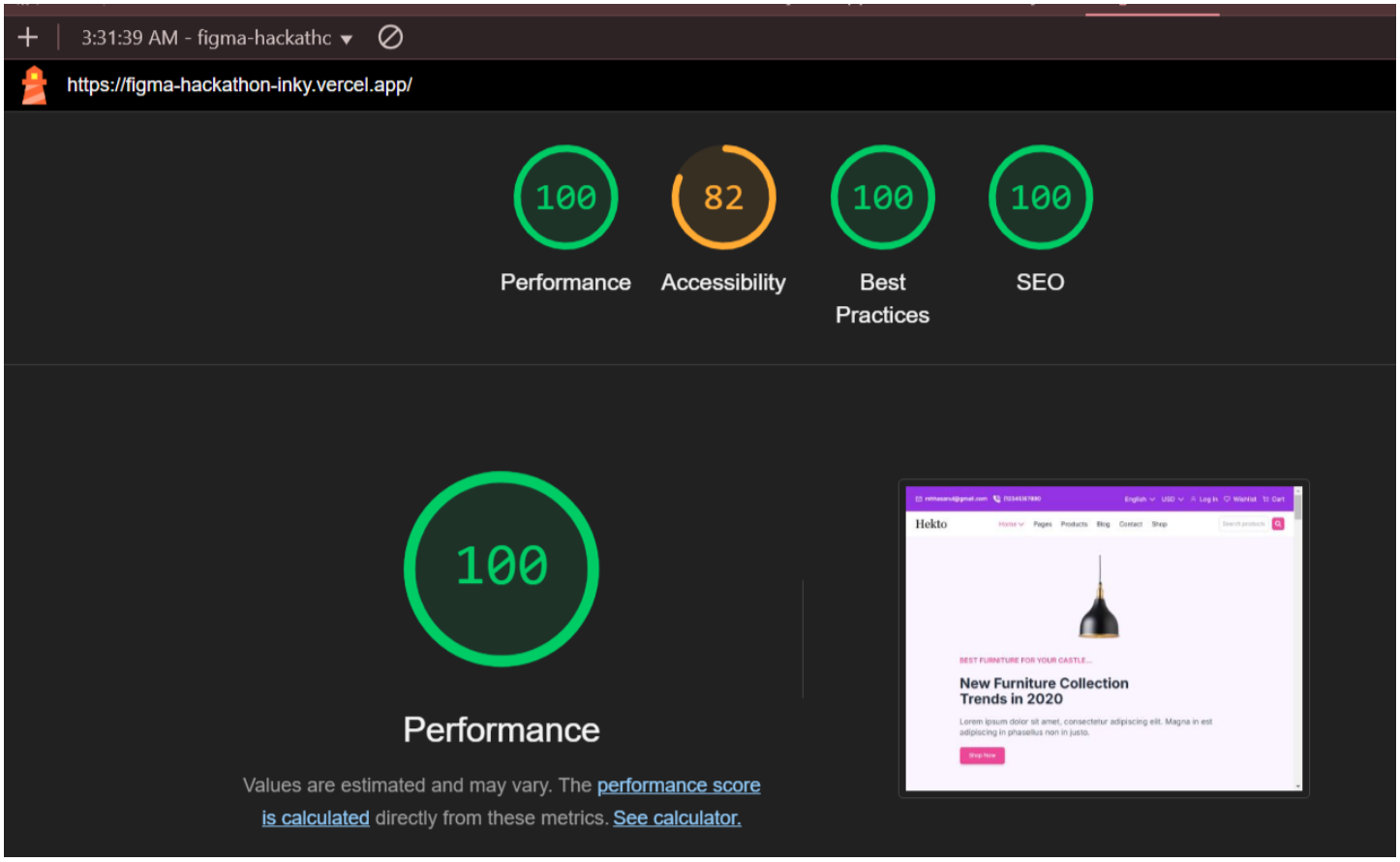

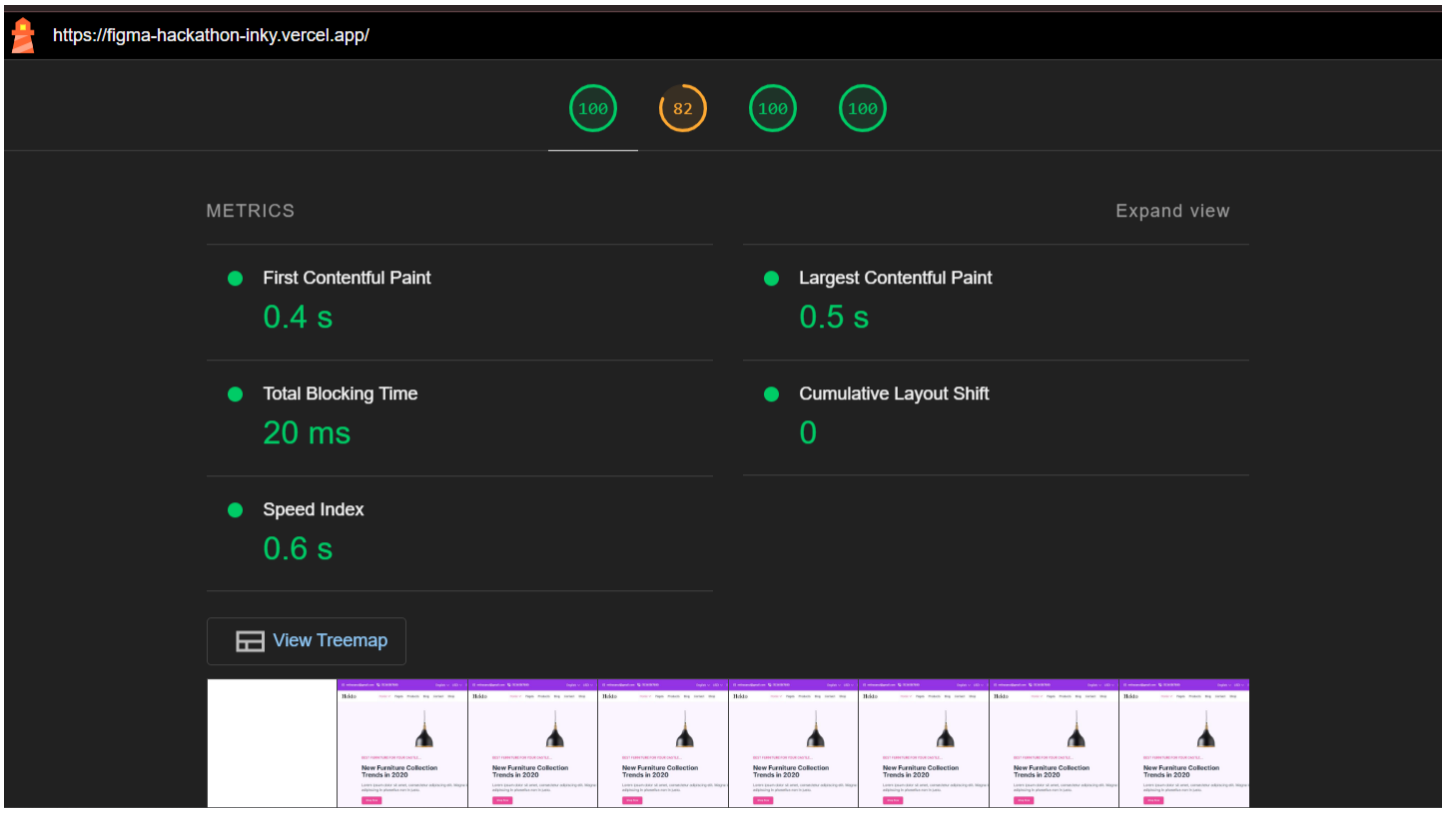

2. README File:

The README file contains the following professional sections for the Furniture Website:

- Project Overview:

The Furniture Website is a general e-commerce platform designed for showcasing and selling high-quality furniture. It focuses on user experience, performance, and seamless functionality.

- Key Features:

1. Dynamic product filtering by categories (e.g., Chair, Sofa).
2. Fully responsive design for mobile, tablet, and desktop users.
3. Optimized performance, achieving Lighthouse scores of 100% for Performance, SEO, and Best Practices.
4. Secure API communication with input validations to prevent vulnerabilities.

- Steps to Run the Project:

1. Clone the repository:

git clone https://github.com/syedafizza410/figma-hackathon

2. Navigate to the project directory:

cd figma-hackathon

3. Install dependencies:

npm install

4. Start the development server:

npm run dev

5. Open http://localhost:3000 in your browser to view the application.

- Folder Structure:

- src/: Contains the main source code for the application.

- public/: Holds static assets like images and icons.

- README.md: A detailed guide and instructions for developers to understand and run the project.

- .env.example: Example of environment variables required for secure API keys.

3. Performance Metrics:

- Lighthouse Performance Metrics:

The application was tested using Lighthouse, and the results are as follows:

- Performance: 100%

- Accessibility: 82%

- Best Practices: 100%

- SEO: 100%

4. Security Measures:

- Input fields validated to prevent injection attacks (e.g., SQL Injection, XSS).

- API keys secured using environment variables.

- HTTPS enabled for secure API communication.

5. Challenges Faced and Resolutions:

- Challenge: Slight layout issues on smaller screen sizes.

Resolution: Adjusted Tailwind CSS breakpoints for better responsiveness.

- Challenge: Lighthouse accessibility score below 90.

Resolution: Fixed missing alt attributes and improved color contrast.

6. Checklist for Day 5:

Task	Status
Functional Testing	Done
Error Handling	Done
Performance Optimization	Done
Cross-Browser and Device Testing	Done
Security Testing	Done
Documentation	Done

Prepared By:

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Date: January 22, 2025