Day 5 – Testing and Backend Refinement –

General - Ecommerce -

Objective:

The main objective for Day 5 is to enhance the testing and error-handling processes, ensuring seamless integration with the backend. The aim is to deliver a high-quality, efficient, and secure application that provides an excellent user experience, while also ensuring comprehensive documentation is in place.
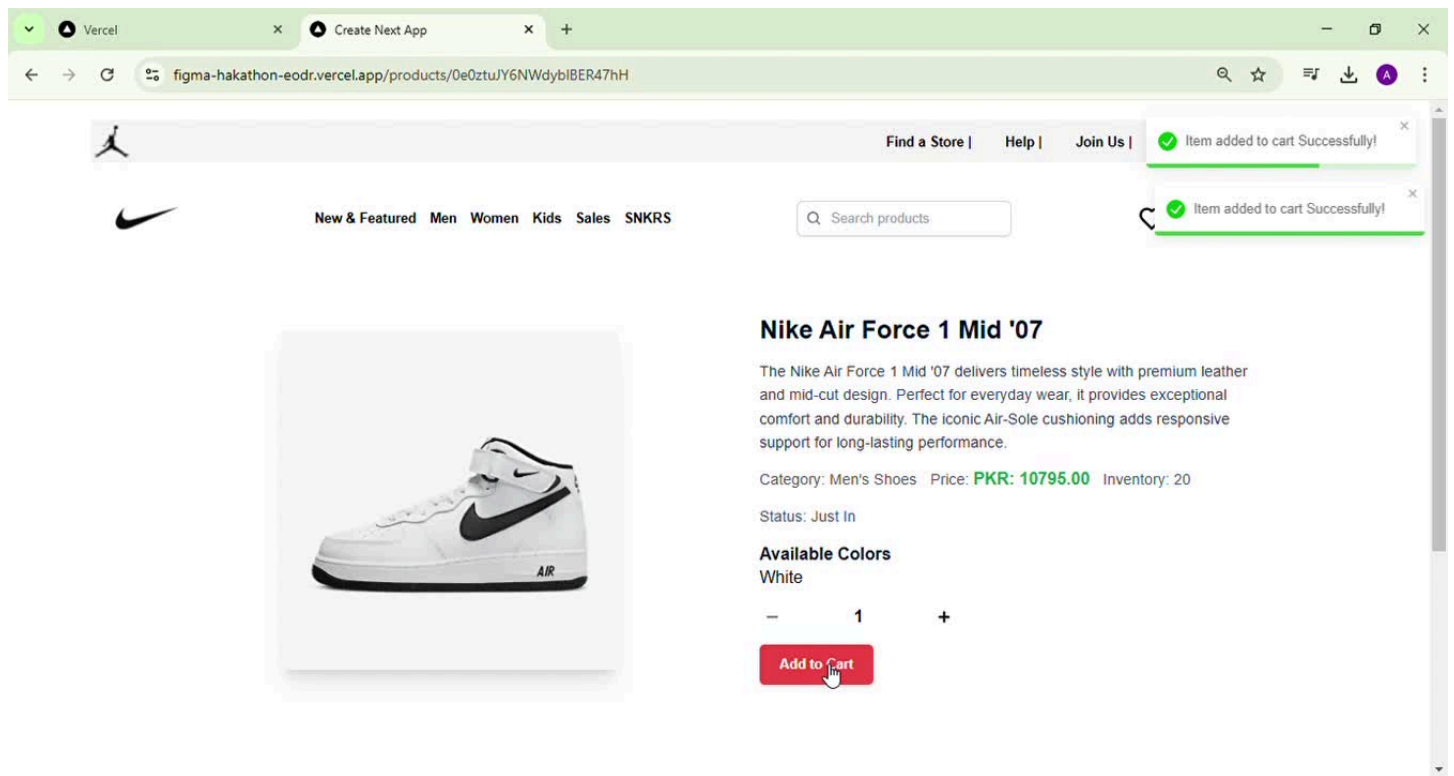
Key Areas of Focus:

1-Functional Testing

Task: Conduct functional testing to verify that features perform as intended.

Outcome:

- **All test cases were executed successfully.**

2. Error Handling

Task: Implement robust error-handling mechanisms.

Details: • Simulated scenarios with disconnected internet. • Verified error messages for API Failures
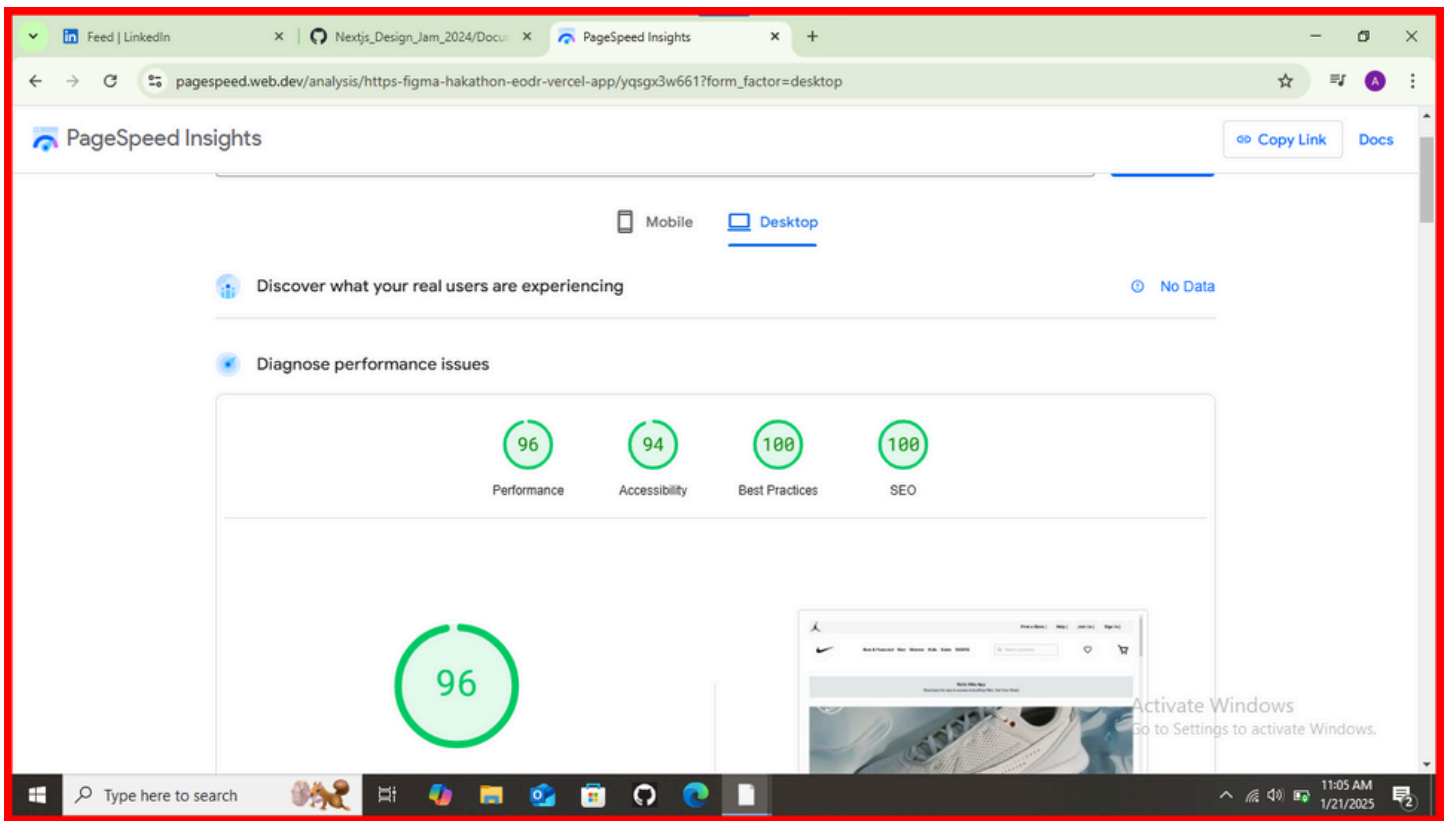
Result: • Clear error messages displayed to users

3. Performance Testing

Task: Evaluate application speed and responsiveness.

Details: • Tested loading times for product pages. • Monitored API response times using a performance analysis tool.

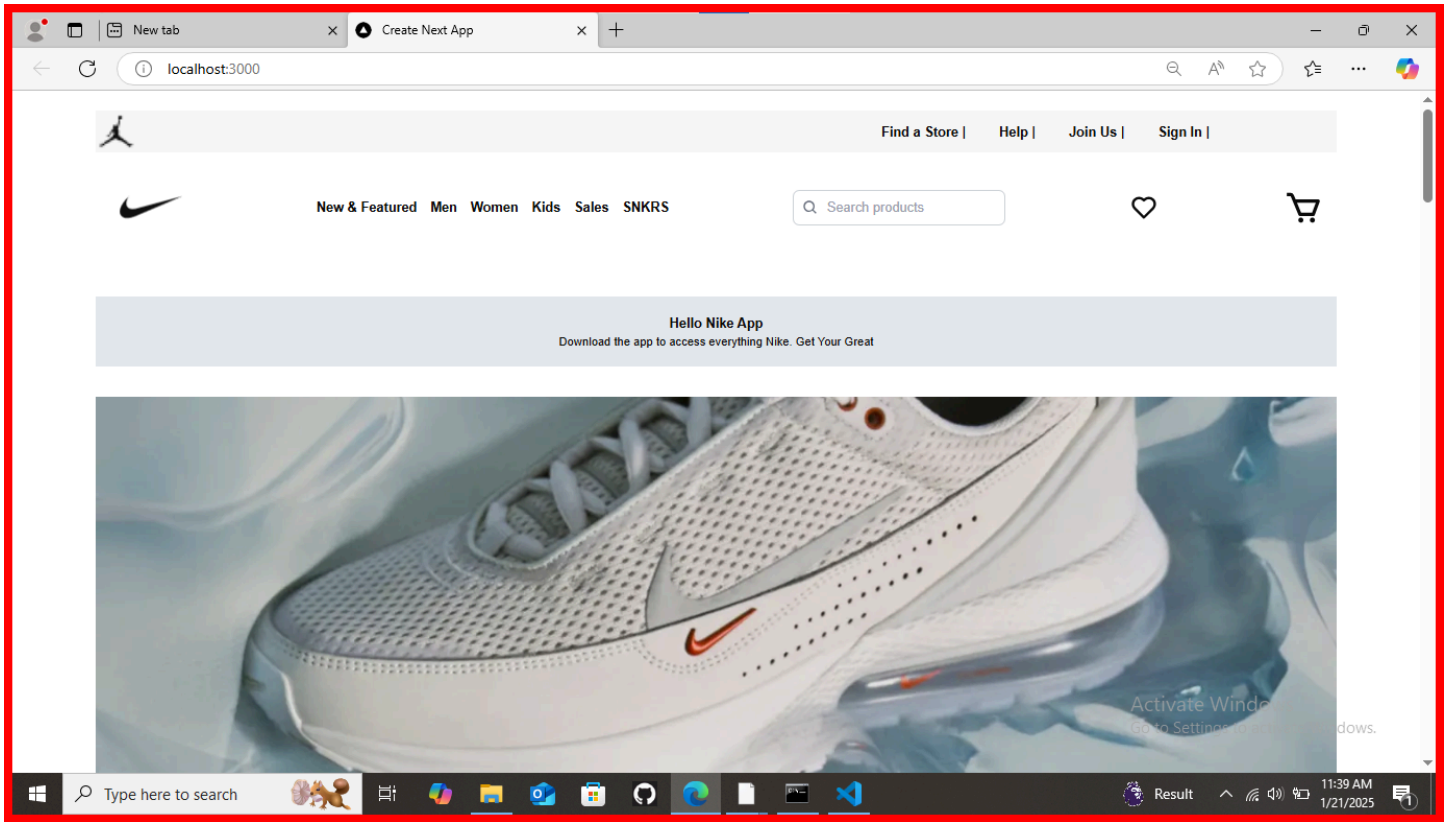Result: • Achieved consistent loading times under acceptable thresholds.

4. Cross-Browser and Device Testing

Task: Ensure compatibility across various browsers and devices.

Details: • Tested the application on Chrome, Firefox, Safari, and Edge. • Verified responsiveness on mobile, tablet, and desktop device.

Result: • The application is fully responsive and compatible with all tested platforms.

7. Documentation Updates

Tasks Completed:

• Updated documentation to reflect changes in the schema and functionalities.

• Provided detailed instructions for setting up and testing the application.

Updated Schemas:

```javascript
export const productSchema = {
  name: 'product',
  title: 'Product',
  type: 'document',
  fields: [
    {
      name: 'productName',
      title: 'Product Name',
      type: 'string',
    },
    {
      name: 'category',
      title: 'Category',
      type: 'string',
    },
    {
      name: 'price',
      title: 'Price',
      type: 'number',
    },
    {
      name: 'inventory',
      title: 'Inventory',
      type: 'number',
    },
    {
```

```javascript
      name: 'colors',

      title: 'Colors',

      type: 'array',

      of: [{ type: 'string' }],

    },

    {

      name: 'status',

      title: 'Status',

      type: 'string',

    },

    {

      name: 'image',

      title: 'Image',

      type: 'image', // Using Sanity's image type for image field

      options: {

        hotspot: true,

      },

    },

    {

      name: 'description',

      title: 'Description',

      type: 'text',

    },

  ],

}
```

Conclusion:

The tasks completed today have significantly improved the application's functionality, performance, and reliability. Moving forward, I will focus on additional testing and feature development.