**Summary of My Marketplace Builder Project**

Over the course of the **GIAIC Hackathon (Days 5, 6, and 7)**, I successfully built and deployed my marketplace project, gaining valuable experience in testing, deployment, and debugging. This journey was a significant milestone, reflecting both the challenges I faced and the solutions I implemented to overcome them.

**Key Achievements**

* Completed the testing phase by creating a detailed **test case report** in CSV format, covering all essential scenarios to ensure functionality and responsiveness.
* Deployed the project on **Vercel**, adhering to **ESLint rules** to maintain clean and consistent code.
* Explored various tools and techniques to deliver a functional and user-friendly website while keeping future enhancements in mind.

**Experience**

**Challenges and Solutions**

Throughout the project, I encountered several errors and roadblocks, which provided valuable learning experiences:

1. **Dynamic Product Details Page**:
   * **Challenge**: Making the product details page a dynamic route in Next.js.
   * **Solution**: With guidance, I configured dynamic routing using [slug] and successfully fetched data from Sanity.
   * **Outcome**: This significantly enhanced the flexibility of my website.
2. **Fetching Data from Sanity**:
   * **Challenge**: Setting up Sanity Headless CMS and integrating it into the project for dynamic content.
   * **Solution**: I learned how to create schemas, fetch data, and display it using GROQ queries, ensuring the website remains content-driven.
3. **Mobile Responsiveness**:
   * **Challenge**: Ensuring the website's layout worked seamlessly on smaller screens.
   * **Solution**: I implemented responsive design using **Tailwind CSS**, focusing on layout adjustments and breakpoints.
4. **ESLint Rules Configuration**:
   * **Challenge**: Strict ESLint rules initially caused errors during deployment.
   * **Solution**: By tweaking the ESLint configuration, I resolved these issues and improved code quality.
5. **Animations**:
   * **Challenge**: Adding smooth and visually appealing animations to enhance the user experience.
   * **Solution**: I utilized Tailwind's animation utilities and explored tools like Framer Motion to implement dynamic effects.
6. **Styling Improvements**:
   * **Challenge**: Achieving the perfect balance between aesthetics and functionality in the design.
   * **Solution**: By experimenting with Tailwind CSS utilities and getting feedback, I created a polished and visually appealing design.
7. **Errors in Next.js Build**:
   * **Challenge**: Resolving unexpected errors during the Next.js build process.
   * **Solution**: I debugged step-by-step, understanding each issue with ChatGPT's assistance, leading to a smooth deployment.

**Lessons Learned**

This project was an incredible learning experience where I:

* Developed a deeper understanding of **Next.js**, **Tailwind CSS**, **Sanity CMS**, and **Vercel**.
* Improved my problem-solving skills by debugging and fixing complex errors.
* Learned to work independently while seeking guidance only when necessary.
* Realized the importance of clean code, responsive design, and efficient deployment pipelines.

**Future Plans**

While I am proud of my progress, there are several features I plan to implement in the future:

1. **Authentication**: Secure user login and registration.
2. **Authorization**: Role-based access control for users and admins.
3. **Admin Panel**: A robust dashboard for managing products, users, and orders.

This project has been a remarkable journey of growth, perseverance, and skill development, and I am excited to continue building on this foundation.