Day 6:

Hackathon Assignment

Deployment Preparation and Staging Environment Setup;

Key Achievements:

• **Deployment Strategy:**

Hosted the application on Vercel for quick deployment.

Integrated GitHub repository for CI/CD.

• **Environment Variables:**

o Configured sensitive variables (e.g., API keys) in .env and uploaded them securely to Vercel.

• Staging Environment: o Deployed a staging build to validate functionality in a production-like environment.

Example .env File:
NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id

NEXT_PUBLIC_SANITY_DATASET=production
API_KEY=your_api_key

• **Staging Testing:**

Functional Testing: Verified key workflows like product listings and checkout.

Performance Testing: Used GTmetrix for analyzing speed and responsiveness.

Security Testing: Validated HTTPS, input handling, and secure API calls.

• **Documentation:** Created a README.md summarizing the project structure and deployment steps.

Organized the GitHub repository with folders for src/, public/, and documents/.

GitHub Repository Structure:

Furniture E-commerce Project/

------→ myapp/

------→.sanity\runtime

-----→ public

-----→images

-----→ scr/

-----→components

-----→AboutUs

-----→ Blog

----→FeatureProcuct/[slug]

------→ProductDetail [slug]

-----→ studio

-----→api

---→contact

--→pages

---→ ReadMe

----→ **Day_1_Conceptualization.pdf**

---→ **Day_2_Technical_Planning.pdf**

---→ **Day_3_Data_Migration.pdf**

---→ **Day_4_Dynamic_Components.pdf**

----→ **Day_5_Testing_Report.pdf**

---→ **Day_6_Deployment.pdf**

Next Steps for the Furniture Marketplace Project

1. **Resolve Issues**
   - Fix any unresolved problems identified during staging tests.
2. **Monitor Performance**
   - Collect and analyze user feedback.
   - Track live performance metrics for smooth operation.
3. **Scale the Platform**
   - Add **multi-language support** for a global audience.
   - Implement **predictive analytics** to enhance user experience.

Conclusion:

In six days, the Furniture Marketplace project successfully evolved from an idea to deployment. With key features, a user-friendly experience, an organized GitHub repository, dynamic components, and thorough testing, the platform is now ready for live deployment in a production environment.