DAY 6 - DEPLOYMENT PREPARATION & STAGING ENVIRONMENT SETUP

Objective:

The goal for Day 6 was to **finalize the deployment of Avion Furniture** by setting up a **staging environment**, configuring **secure hosting**, and validating performance in a **production-like setting**. This process ensured a smooth transition from development to live deployment while following **industry-standard best practices** for environment management.

<u>Professional Deployment Environments:</u>

🗌 TRN (Training	(): Onboarding &	practice environment.
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- **DEV** (**Development**): Local environment for writing & testing code.
- **⚠ SIT (System Integration Testing):** Ensures seamless integration across systems.
- ☐ UAT (User Acceptance Testing): Allows stakeholders to validate features.
- ☐ **PROD (Production):** Live, customer-facing version of Avion Furniture.
- ☐ **DR** (**Disaster Recovery**): Backup system for critical scenarios.

Key Achievements:

- **☑ Deployed Avion Furniture on Vercel** for both staging and production.
- Integrated with Sanity CMS for dynamic content updates.
- Secured environment variables to protect sensitive API keys and database credentials.
- Performed staging environment testing to ensure functionality, security, and responsiveness.
- ✓ **Updated documentation** with project progress, test reports, and deployment guidelines.

Step-by-Step Implementation:

☐ Hosting Platform Setup:

- ♦ Used Vercel for fast and secure deployment.
- Linked GitHub repository to Vercel for automated builds.
- **Configured build settings** to optimize performance.

2 Configuring Environment Variables:

♦ Created a .env file to store API keys and credentials:

NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id

NEXT_PUBLIC_SANITY_DATASET=production

API_KEY=your_api_key

Uploaded these variables securely to Vercel's dashboard.

Հ☑ Deploying to Staging:

- ◆ Initiated deployment to the staging environment via Vercel.
- ◆ Validated the build process to ensure it completed without errors.
- **Checked website functionality** to confirm a smooth user experience.

4□ Staging Environment Testing:

- Functional Testing: Verified product listings, search, cart, and checkout.
- ◆ **Performance Testing:** Used Lighthouse & GTmetrix for speed analysis.
- Security Testing: Ensured HTTPS usage and input validation.
- ♦ Responsiveness Testing: Checked layout on different devices.

5 Documentation & Repository Organization:

- **Property** Created README.md summarizing all development activities.
- **Structured all project files** into organized folders.
- **Property** Uploaded test reports & performance results to GitHub.

Final Deliverables:

- Live Staging Environment: Fully functional on Vercel.
- Secure Environment Variables: API keys & credentials properly configured.
- Comprehensive Testing Reports: Performance and security validations documented.
- Structured GitHub Repository: Well-organized project files and documentation.
- ✓ Professional README.md File: Summarizing the entire Avion Furniture journey.

Avion Furniture Vercel Link:

https://hackathon-3-2025-six.vercel.app/

□ GitHub Repositories:

https://github.com/Kashifzaii/Hackathon-3-2025

Conclusion:

Day 6 marked the **successful deployment** of **Avion Furniture**, ensuring that it is optimized for real-world usage. Through careful testing, security enhancements, and documentation, the project is now **fully operational and ready for launch!**