# 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 & Description Set 19 Description Description**

#### **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 Staging Link:**
- Live Demo
- **GitHub Repositories:**
- ♦ Avion Furniture Codebase
- ♦ Marketplace Journey (Days 1-6)

#### **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!**