- Day 6 Launch Readiness & Staging Setup
- Modern Furniture E-Commerce Platform Furniro
- ★ Key Functionalities:
- ◆ Product Catalog Browse & explore furniture with detailed views.
- ◆ Cart & Wishlist Seamless management of favorites & purchases.
- ♦ Smart Search & Sorting Find products effortlessly.
- ♦ Secure Checkout Hassle-free & encrypted transactions.
- Custom User Profiles Personalization at its best.
- ◆ Feedback & Ratings Real user insights for better shopping.
- ♦ Real-Time Alerts Stay updated with order & deal notifications.
- ♦ Cross-Device Compatibility Smooth experience on mobile, tablet, & desktop.
- **6** Objective: Build a high-performance, scalable platform with intuitive navigation for an effortless shopping experience!
- ✓ Pre-Launch Readiness: Critical Actions Completed
- 4 1. Code Audit
- Reviewed code for efficiency & best practices.
- Eliminated unnecessary packages & obsolete code.
- 2. Configuration Security
- Protected API tokens & credentials via environment files.
- X Validated staging/production environment variables.
- 3. Bundle Refinement
- ♦ Optimized output size by streamlining third-party libraries.
- Ran npm run build to fix compilation errors.
- 4. Quality Assurance
- ✓ Unit, Integration, & E2E tests ensured system reliability.
- Checked responsive design across multiple devices.
- 5. Progress Documentation
- Teated an error-tracking CSV with performance benchmarks & fixes.
- Staging Environment Setup

- Hosting via Vercel
- Why Vercel? Instant deployments, speed, & analytics!
- ◆ Dedicated Staging Branch Isolated environment variables for security.
- ◆ Automated CI/CD Smooth & efficient updates.
- ◆ Vercel Insights Real-time performance tracking.
- ⚠ Deployment Challenges & Solutions
- X 1. Configuration Errors
- Issue: Staging variables failed to load.
- Proof Cause: Incorrect .env formatting & missing keys.
- Fix: Reconfigured environment files & secured variables in Vercel.
- 2. Unexpected Client-Side Errors
- ⚠ Issue: Console errors in cart & favorites.
- Root Cause: Unhandled edge cases.
- Fix: Integrated Sentry for monitoring & improved validation logic.
- 3. Mobile Layout Issues
- X Issue: Design misalignment on smaller screens.
- Fix: Adjusted Tailwind breakpoints & tested on real devices.
- X Validation Workflow
- 1. Feature Testing
- Confirmed core functionalities:
- Cart item addition/removal.
- Wishlist updates.
- Accurate product search results.
- Smooth page transitions.
- 2. Speed & SEO Audit
- Lighthouse Scores:
- ♣ Performance: Faster load times via code splitting.
- Accessibility: Improved color contrast & ARIA labels.
- SEO: Enhanced metadata & image alt tags.
- Metrics tracked via Vercel's analytics dashboard.
- 3. Cross-Device Testing
- Tested layouts on mobile, tablet, & desktop.
- Fixed overflow & alignment issues.

- Deployment Pipeline Pre-Launch Checklist Database Backup completed. Environment Variables revalidated.
- Final Build executed without errors (npm run build).
- Vercel Deployment Steps
- Merged staging branch to GitHub.
- 2 Enabled auto-deployments from the production branch.
- Monitored logs to confirm a successful build.
- Post-Launch Verification
- Tested live features: Cart, filters, & wishlist.
- Ran scripted tests for checkout & user workflows.
- Key Resolutions
- 71. Build Failures
- Issue: Missing dependencies blocked deployment.
- Fix: Updated package.json & rebuilt the project.
- 2. UI Glitches
- X Issue: Overlapping UI elements on mobile.
- Fix: Fine-tuned CSS grid configurations.
- **6** Final Results
- Successfully deployed a scalable furniture e-commerce platform!
- Live Demo: UI/UX Hackathon Project
- Lighthouse Scores: 90% + in Performance & Accessibility!
- Consistent functionality across all devices.
- Future Roadmap
- Monitor uptime with Vercel & Sentry integrations.
- Introduce user-generated reviews & Al-powered recommendations.
- Schedule quarterly security audits & performance tests.
- Closing Remarks

This furniture e-commerce platform merges a robust backend with a sleek frontend, ensuring a smooth shopping experience. Overcoming challenges like variable mismanagement & mobile