**DAY 6 DEPLOYMENT PREPARATIONAND STAGING ENVIRONMENT SETUP:**

**Deployment Strategy:**

* **Hosting on Vercel:**
* Deployed the application on Vercel
* Vercel Link: [https://hackthon-milestone-figma.vercel.app](https://hackthon-milestone-figma.vercel.app/)
* **Integration with GitHub:**
* Connected the GitHub repository to Vercel for usual changes.
* Github Link: <https://github.com/MuhammadRaedSiddiquie/Hackthon_milestone>

**Environment Variable Management:**

* When deploying the project made sure that all the environmental variables are proplery configured in vercel environment settings.
* Made sure that the .env file is in .gitignore to that it isn't pushed to github.

**Staging Environment Setup:**

**Staging Deployment:**

* Deployed a staging build to test the application in a production- like environment before going live.
* Allowed team members to validate functionality and detect issues before the final release.

**Staging Testing Process:**

* **Functional Testing:**
* Verified key workflows like product browsing, cart functionality, checkout process, and user authentication.
* **Performance Testing:**
* Used Lighthouse to analyze page speed, loading time, and responsiveness.
* Optimized images, scripts, and caching strategies for better performance.
* **Security Testing:**
* Ensured all sensitive data was transmitted over HTTPS.
* Checked input validation to prevent SQL injection and cross-site scripting (XSS) attacks.
* Verified API security to prevent unauthorized access.

**Documentation:**

* README.md :
* Created a detailed README.md file to provide an overview of the project, including:
* Project structure
* Tech stack
* Setup and installation instructions
* Deployment guidelines
* **Structure of my Hackathon App:**



