

# Day:6

## Deployment Documentation For Bandage:

### Project Overview:

This document outlines the deployment process of the project, including securing environment variables, performance testing, and test case reporting.

### Deployment Platform:

**Platform:** Vercel

**Deployment URL:** <https://marketplace-e-commerce-bandage.vercel.app/>

### Environment Variables Configuration:

To secure sensitive data, all secret keys and API credentials are stored in the `.env.local` file. These variables are not committed to the repository and are managed securely in Vercel's environment settings.

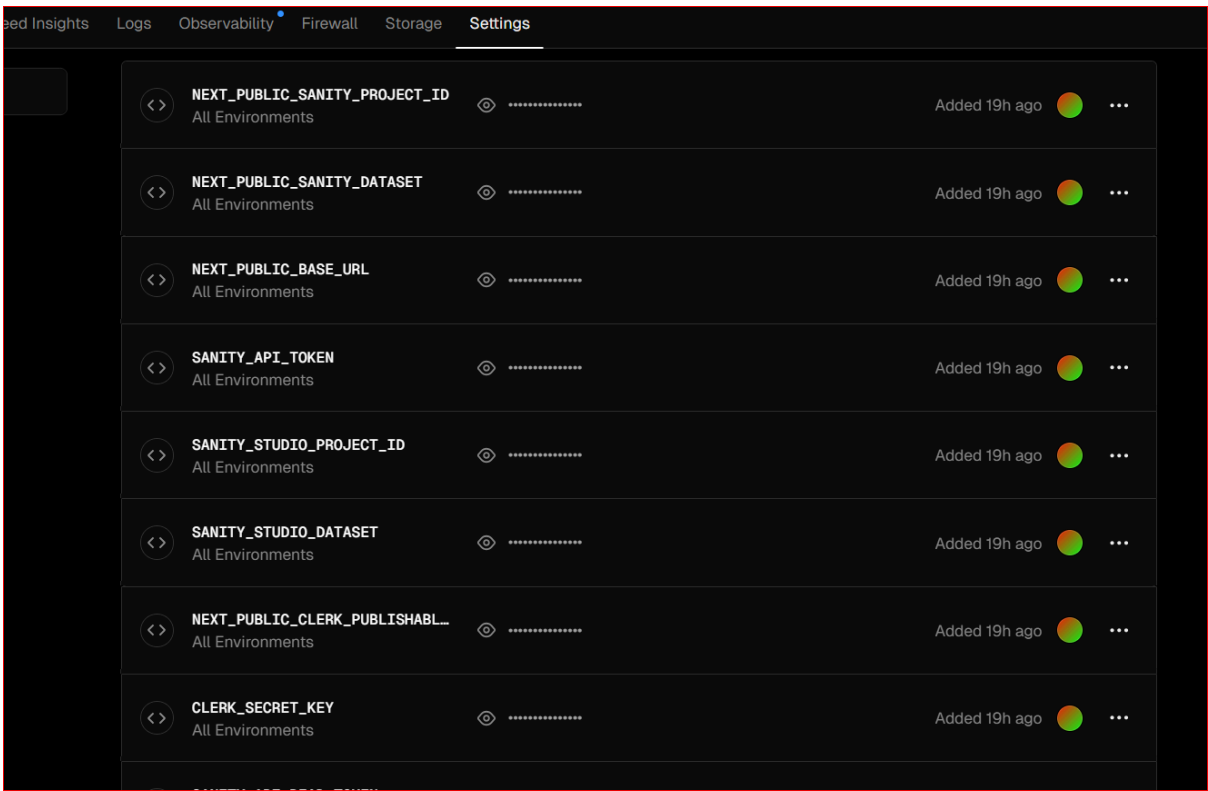
#### `.env.local` File:

```
NEXT_PUBLIC_SANITY_PROJECT_ID=  
NEXT_PUBLIC_SANITY_DATASET=  
NEXT_PUBLIC_BASE_URL=  
SANITY_API_TOKEN=  
SANITY_STUDIO_PROJECT_ID=  
SANITY_STUDIO_DATASET=  
NEXT_PUBLIC_CLERK_PUBLISHABLE_KEY=  
CLERK_SECRET_KEY=  
SANITY_API_READ_TOKEN=  
STRIPE_SECRET_KEY=
```

### Steps to Secure Environment Variables:

1. **Local Setup:** Store all sensitive information in `.env.local`.

- 2. **Git Ignore:** Ensure `.env.local` is added to `.gitignore` to prevent accidental commits.
- 3. **Vercel Configuration:**



## Performance Testing:

Performance testing was conducted using **GTmetrix** to ensure optimal load time, responsiveness, and page speed.

### GTmetrix Performance Results:

Tested URL: [<https://gtmetrix.com/reports/marketplace-e-commerce-bandage.vercel.app/7CyVP8zq/>]

- **Performance Score:** [98]
- **Structure Score:** [89]
- **Load Time:** [2.2s]
- **Key Issues & Fixes:**
  - Optimized images
  - Minified CSS and JavaScript
  - Implemented lazy loading for images
  - Reduced third-party requests

## Test Case Report:

A structured test case report was created to validate the application’s functionality, responsiveness, and security.

**Sample Test Case Report:**

Test Case ID	Description	Steps Taken	Expected Result	Actual Result	Status	Remarks
TC001	Validate product listing	Open product page	Products displayed correctly	Products displayed correctly	Passed	No issues found
TC002	Test API error handling	Disconnect API & refresh	Show fallback message	Fallback message displayed	Passed	Handled properly
TC003	Check cart functionality	Add item to cart	Cart updates correctly	Cart updates correctly	Passed	Works as expected
TC004	Test responsiveness layout	Resize browser window	Layout adjusts properly	Layout adjusts properly	Passed	Responsive verified

**Final Review**

**Checklist:**

- ✓ Deployment to Vercel completed
- ✓ Environment variables securely configured
- ✓ Performance testing conducted on GTmetrix
- ✓ Test case report documented
- ✓ Project repository organized with README.md

**Conclusion**

The project has been successfully deployed with secured credentials, optimized performance, and thoroughly tested functionality. All relevant reports and documentation are maintained in the GitHub repository for future reference.