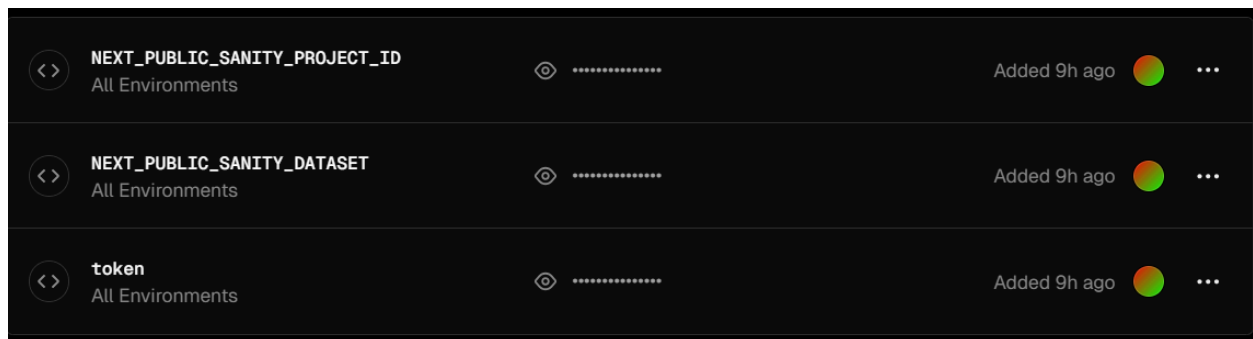# Day 6 - Deployment Preparation and Staging Environment Setup :

This document consists of a comprehensive guide to deployment preparation and staging environment setup. It covers the following key areas:

1. **Understanding Deployment Preparation**
   - Importance of deployment readiness
   - Checklist for successful deployment
2. **Staging Environment Overview**
   - Definition and purpose
   - Differences between staging and production environments
3. **Setting Up a Staging Environment**
   - Tools and infrastructure requirements
   - Configuration best practices

ENVIRONMENT VARIABLE SETUP:

- The environment variables are set up in the vercel to set up the process successfully and secure the confidential information
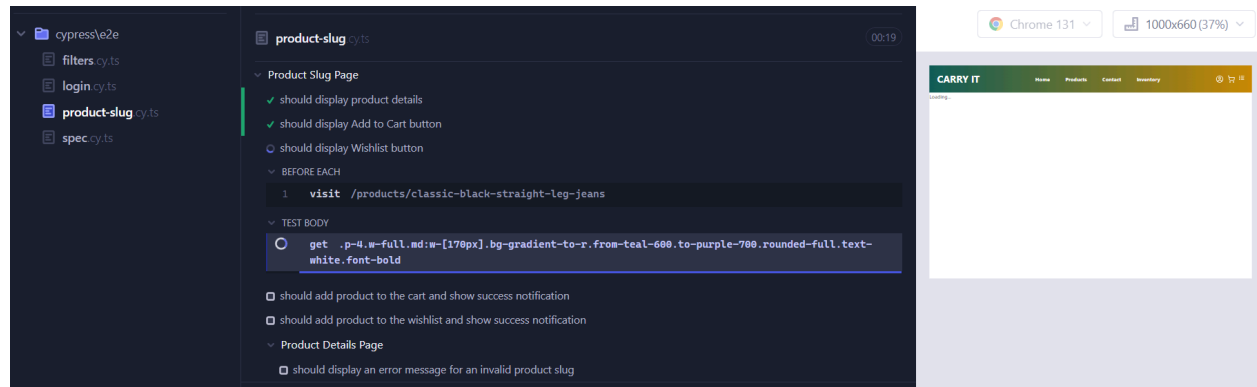- API tokens,dataset and project id is set in the environment variables


```
NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id
NEXT_PUBLIC_SANITY_DATASET=production
API_KEY=your_api_key
```

ENVIRONMENT TESTING FILE :

Test Case ID	Description	Steps	Expected Result	Actual Result	Status	Remarks
TC001	Validate Product Listing	Open product-listing >Verify products are displayed correctly	Products are dsiplayed from CMS correctly	Products displayed	Passed	None
TC002	Validate products details	Open the product detailing page to see the details of a particular project	Detailing page is opened successfully	Detailing page is opened	Passed	None
TC003	Test Add to cart functionality	When the button is clicked>item is added to cart	Products are added to the cart when it is clicked	Products are added successfully	Passed	Working fine
TC004	Test Checkout Process	Checkout page loads up with all proper details	Checkout process works fully	the page loads up and it works just fine	Passed	none
TC005	Test Filters	Checks if the product is listed inside the particular category and colour	Products are searched based on filters	products are displayed	Passed	Working all fine
TC006	Validate User management system	Checks if the user is logged in, it should direct the user to the homepage	User is directed to homepage after logged in	User is not directed to homepage	Failed	User is not directed to homepage

Used tools like cypress to validate and test the components made in the project which ensured if the components are working fine or should be worked on .

It ensures that the components are working from end to end testing