

HACKTHON:3 DAY:6

ECOMMERCE WEBSITE

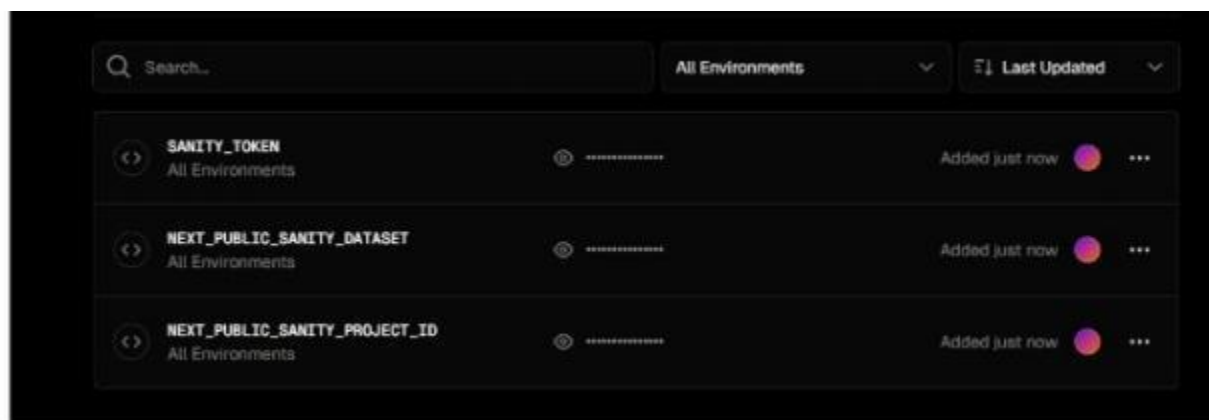
NEW FURNITURE COLLECTION TRENDS – 2025

Deployment :

Staging Environment Overview 1. Staging Environment Setup

The staging environment has been successfully configured to closely replicate the production environment, ensuring an accurate simulation of how the application will behave when it goes live.

- **Mimicking Production Conditions:** The staging environment mirrors the production setup, allowing for realistic testing conditions.
- **Latest Stable Build:** The most recent stable build has been deployed, resolving any bugs from previous versions and ensuring a solid foundation for further testing.
- **Feature Testing:** All core features, such as browsing products, adding items to the cart, and completing checkout, have been fully tested and are operating as expected.



2. Next Steps after Staging Deployment

- User Acceptance Testing (UAT):

- In this phase, we validate the user experience by involving internal or external testers to go through the entire purchasing process. Their feedback will help identify potential improvements before the site goes live.



Integration Testing:

- Thorough tests of third-party integrations such as payment gateways and shipping calculators have been planned to ensure smooth functionality and consistency.

- Load Testing:

- Simulated user traffic will be applied to gauge how the site performs under high traffic conditions, ensuring that the system can handle peak usage without crashing or slowing down.

Security Testing:

Product	Price	Quantity	Total
 Product 1 Color: Red, Size: M	\$30.00	<input type="text" value="2"/>	\$60.00
 Product 2 Color: Blue, Size: L	\$45.00	<input type="text" value="1"/>	\$45.00

Update Cart

Clear Cart

Cart Totals

Subtotal: \$105.00
Totals: \$120.00

Proceed To Checkout

Calculate Shipping

Calculate Shipping

A series of security tests will be conducted to identify vulnerabilities such as SQL injection, cross-site scripting (XSS), and potential authentication weaknesses.

- Cross-Browser and Mobile Testing:

The site will be tested across multiple browsers (e.g., Chrome, Firefox, Safari) and devices (e.g., mobile, tablet, desktop) to ensure compatibility and responsiveness.

3. Bug Fixes and Refinements

- Addressing Issues from Testing:

Feedback from the testing phase will be used to resolve bugs and refine features in the staging environment.

Final adjustments to design and functionality will be made based on the testing results and user suggestions.

4. Staging Environment Sign.

Off

Once all tests have been successfully completed and feedback has been addressed, stake holders or project leads will sign off on the staging deployment, allowing for the transition to production.

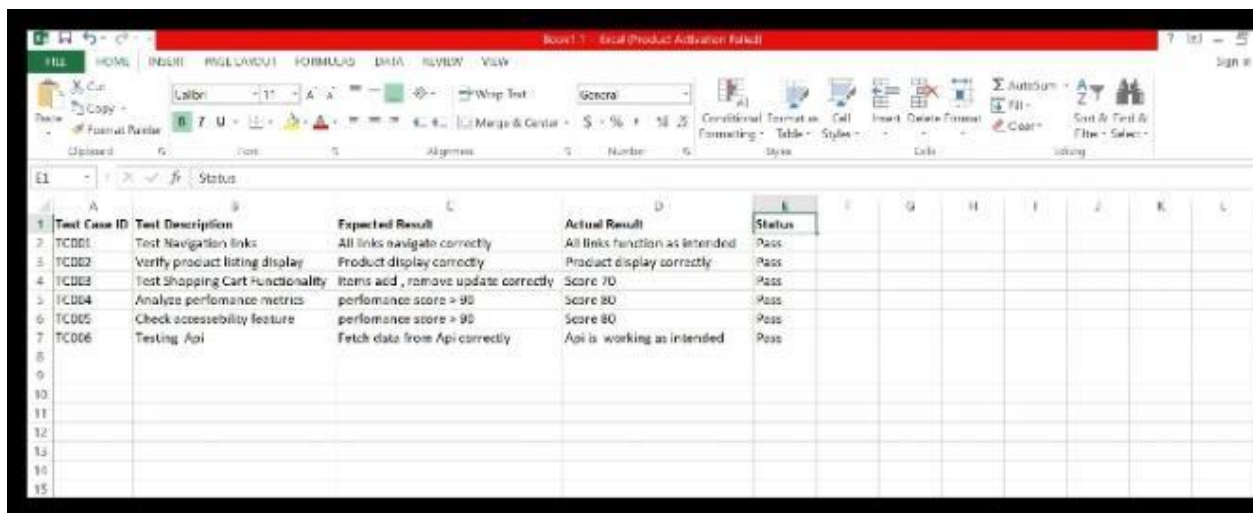
- **Backup Plan:** A solid rollback plan will be in place to ensure that if any issues arise during production deployment, the system can be reverted to a previous stable state.

5. Deployment to Production

- **Final Deployment:** After the staging environment is signed off, the marketplace application will be deployed to production.
- **Post-Launch Monitoring:** Continuous monitoring will be implemented after launch to identify and address any potential issues that may arise, such as performance problems or bugs affecting the user experience.

Conclusion

The deployment to the staging environment marks a pivotal step in the development pipeline. By thoroughly testing features, integrations, and performance under real-world conditions, we ensure that the website is fully prepared for launch. This strategic approach mitigates risks and optimizes the user experience, making the final production deployment smooth and successful.



Test Case ID	Test Description	Expected Result	Actual Result	Status
TC001	Test Navigation links	All links navigate correctly	All links function as intended	Pass
TC002	Verify product listing display	Product display correctly	Product display correctly	Pass
TC003	Test Shopping Cart Functionality	Items add, remove update correctly	Score 70	Pass
TC004	Analyze performance metrics	performance score > 90	Score 80	Pass
TC005	Check accessibility feature	performance score > 90	Score 80	Pass
TC006	Testing Api	Fetch data from Api correctly	Api is working as intended	Pass