

AUTOMATION TESTING FOR OPENCART

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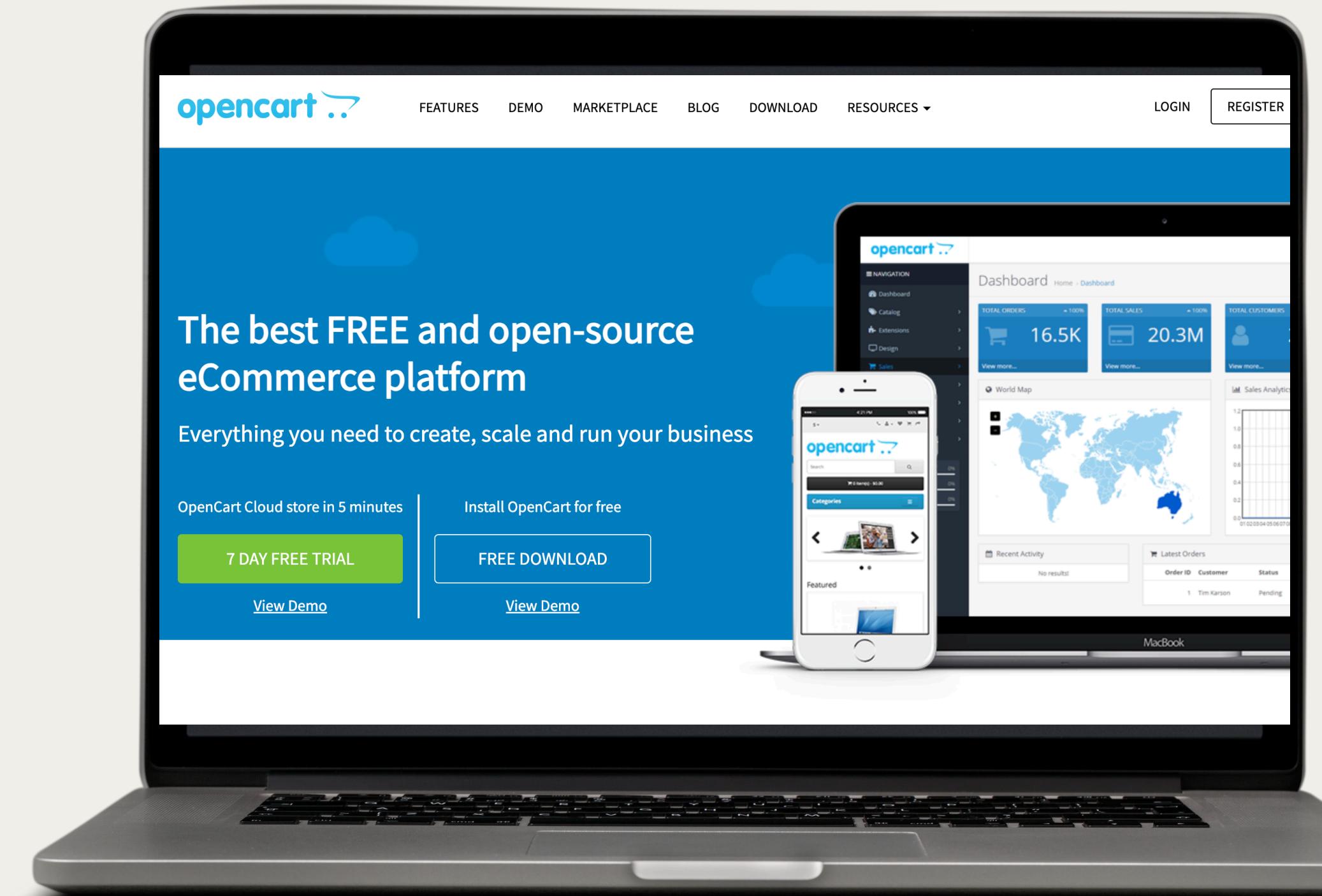
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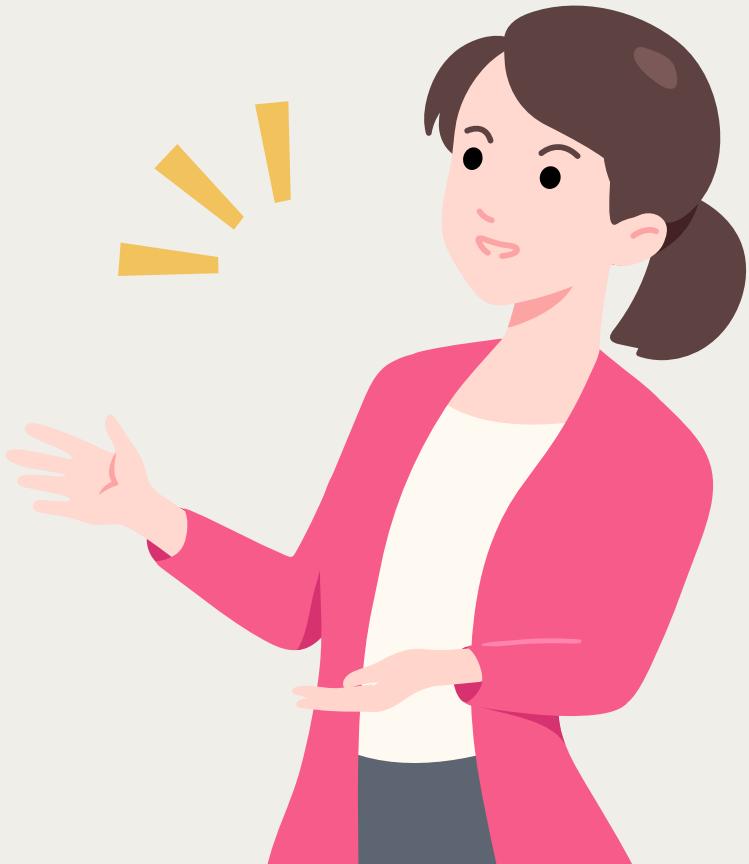
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INTRODUCTION

- **Overview:** This project focuses on automating the functional testing of an e-commerce platform using the OpenCart demo website.
- **Importance of Automation:** Automation enhances testing efficiency, improves coverage, and ensures a consistent and high-quality user experience.
- **Project Scope:** The project covers the automation of key functional areas of the OpenCart website including Registration, user login, adding items to the cart, Wishlist, checkout process and Logout.

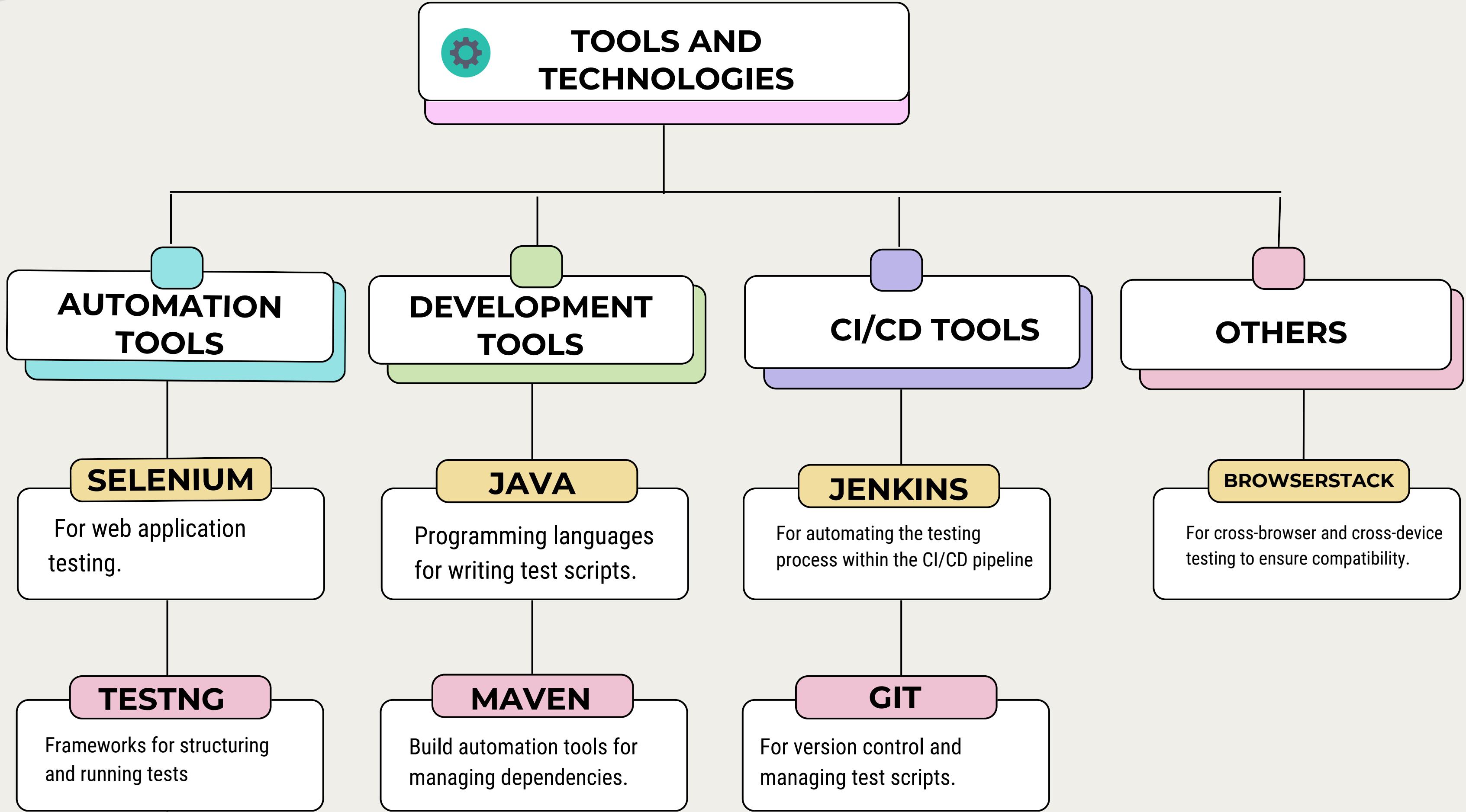




PROJECT OBJECTIVES

- Automate critical functional tests for the **OpenCart** demo site.
- Enhance test coverage and reduce **manual testing** effort.
- Ensure the platform provides a reliable and seamless **user experience**.
- Integrate automated tests into a **CI/CD pipeline** for continuous testing.







TESTING FRAMEWORK

- **Framework Overview:** Using the Page Factory Model design pattern.
- **Rationale for Selection:** enhances maintainability and reusability of test scripts by separating the test logic from the page structure.

Structure and Components:

- **Page Classes:** Representing web pages with their elements and actions.
- **Test Classes:** Containing the actual test cases using the methods from page classes.
- **Utility Classes:** Providing common functions like browser setup, reporting, etc.

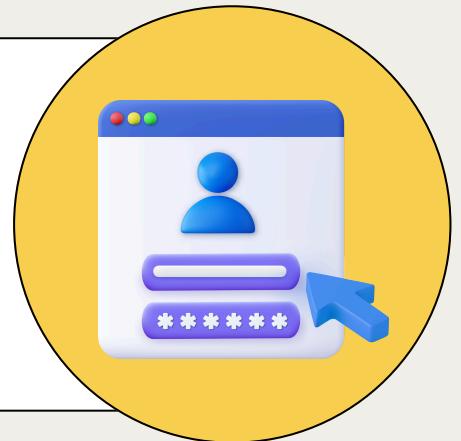


TEST CASES



REGISTRATION

- Verify user can register with valid details.
- Verify error messages for invalid input fields.



USER LOGIN

- Verify login with valid credentials.
- Verify error message for invalid credentials.



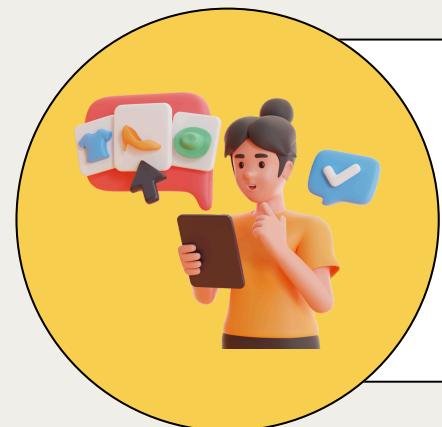
WISHLIST

- Verify items can be added to the wishlist.
- Verify items can be removed from the wishlist.



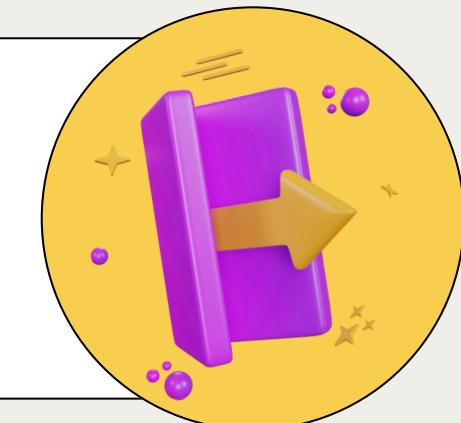
ADD TO CART

- Verify items can be added to the cart.
- Verify cart updates with correct quantity
- verify items canbe removed from the cart



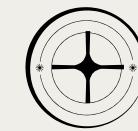
CHECKOUT PROCESS

- Verify the checkout process completes successfully.



LOGOUT

- Verify user can successfully log out.
- Verify session ends after logout.



CONCLUSION

Summary of Achievements:

- Successfully automated key functional tests.
- Improved test coverage and reduced manual effort.

Impact:

- Enhanced reliability and user experience of the OpenCart platform.

Future Work:

- Expand test coverage to other areas of the website.
- Optimize test scripts for better performance.
- Implement more advanced testing strategies like performance testing.

THANK YOU

