Project Planning

Testing Scope

OpenCart is a free, open-source e-commerce platform that enables merchants to create and manage online stores efficiently. It offers a comprehensive set of features and pages can be tested and designed to cater to various business needs:

Administrator Dashboard

The intuitive dashboard provides a snapshot of total orders, sales, customers, online users, and sales analytics, allowing for effective store management.

User Management

OpenCart allows setting advanced user privileges and separate access for user groups and users, facilitating collaboration among team members with different roles.

Multi-Store Management

Manage multiple stores from a single admin interface, assign products to different stores, customize themes per store, localize settings, and set individual product prices.

Product Options and Attributes

Easily add product variables such as size, color, length, and height to accommodate diverse product offerings.

Affiliate System

The built-in affiliate system allows affiliates to promote products and earn commissions, with support for various payment options like cheque, PayPal, and bank transfer.

Discounts, Coupons, and Specials

Implement discounts, coupons, and special offers to attract customers and boost sales.

Backup and Restore

Set up backups and restorations to safeguard store data and ensure business continuity.

Unlimited Categories and Products

Create unlimited categories and subcategories, and manage any number of products, from one to a million.

Downloadable Products

Easily sell digital products by uploading the product and setting the price.

Product Reviews and Ratings

The integrated comments, reviews, and ratings system helps customers make informed purchasing decisions.

Reward Points

Implement a reward program to increase customer lifetime value and encourage repeat purchases.

Filters

Create filters to help customers refine and narrow down product searches, enhancing the shopping experience.

Multi-Currency Support

Sell products in any currency with automatic rate updates and set up different taxes for global commerce.

Multi-Language Support

Available in over 40 languages, including support for right-to-left languages like Arabic and Hebrew, making it accessible to a global audience.

Newsletter Subscription

Easily collect customer subscriptions for newsletters to facilitate email marketing campaigns.

These features make OpenCart a versatile and customizable platform for establishing and growing an online store.

Risks & Challenges

1. **Browser Compatibility Issues – Website may behave differently across Chrome, Firefox, Edge, and Safari.**
2. **Device Responsiveness – Ensuring smooth performance on mobile, tablet, and desktop.**
3. **Payment Gateway Failures – Testing multiple payment gateways (PayPal, Stripe, etc.) requires test credentials, sandbox environments, and validation of different transaction scenarios (success, failure, refund).**
4. **Data Integrity Issues – Incorrect or missing data in order history, cart, and profile.**
5. **Automation Challenges – Dynamic elements and CAPTCHA may interfere with test scripts.**

Key Performance Indicators (KPIs)

1. **Bug Detection Rate – Track the number of defects found per testing phase.**
2. **Test Coverage Percentage – Ensure at least 90% of functional scenarios are tested.**
3. **Regression Testing Success Rate – Maintain a high pass rate for repeated test cases.**
4. **Issue Resolution Time – Average time taken to fix reported defects.**