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**OpenCart Web App(Front Store)**

**FRS (Functional Requirements Specification)**

**OpenCart Web App**

**FRS (Functional Requirements Specification)** -**OpenCart Manual Testing Project**

**Functional Requirements Specification (FRS)**

**Project Title:**  
🔹 *Manual Testing of OpenCart Web Application*

**Prepared By:**  
🔹 Rishi Priya B J A

**Date:**  
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**1. Introduction**

This document defines the functional requirements for testing the OpenCart web application (<https://www.opencart.com/index.php?route=cms/demo>). The goal is to validate core user-facing functionalities of the e-commerce platform through structured manual testing techniques.

**2. Scope**

**In Scope:**

* User Registration
* User Login (valid and invalid cases)
* Product Search (valid and invalid inputs)
* Add to Cart / Update Quantity / Remove Item
* Clear Cart functionality
* Checkout Process (until order confirmation)
* Navigation to informational pages (e.g., Contact Us, About Us)

**Out of Scope:**

* Admin panel & database testing
* Payment gateway processing
* Mobile responsiveness (tested only on desktop Chrome)
* Automation tools/scripts

**3. Functional Requirements**

|  |  |
| --- | --- |
| **Requirement ID** | **Requirement Description** |
| REQ\_01 | Users should be able to register with valid credentials |
| REQ\_02 | Registration form must reject invalid email formats |
| REQ\_03 | Users should be able to log in with valid credentials |
| REQ\_04 | System must reject login with invalid credentials |
| REQ\_05 | Users must be able to search for products |
| REQ\_06 | Invalid/irrelevant search inputs should return no results |
| REQ\_07 | Users must be able to add items to cart |
| REQ\_08 | Users must be able to update quantity in cart |
| REQ\_09 | Users must be able to remove products from cart |
| REQ\_10 | Users must be able to complete checkout if product stock is available |
| REQ\_11 | After order placement, users should see an order summary |
| REQ\_12 | Users must be able to clear the cart |
| REQ\_13 | Users must be able to navigate to pages like "Contact Us", "About Us" via footer links |

**4. Test Coverage**

Each requirement is mapped to relevant:

* **Test Scenarios**
* **Test Case IDs**
* **Test Results**

Documented in the **Traceability Matrix**.

**5. Tools & Platform**

|  |  |
| --- | --- |
| **Category** | **Tools** |
| Test Case & Bug Tracking | JIRA + Xray |
| Test Design & Documentation | Excel, Word |
| Browser | Chrome |
| OS | Windows 11 |
| Performance Testing | Lighthouse |
| Screenshot Capture | Snipping Tool |

**6. Risks**

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| Demo data unavailability | Document as blocked |
| Registration/Login issues in demo | Capture with bug report and retesting |
| Checkout not working due to out-of-stock | Mention environment limitation |

**7. Approval**

This FRS is self-prepared and approved by Rishi Priya B J A for academic and project submission purposes as part of manual testing practice.