# **Project Documentation: Online Shopping Website Management System**

## Project Overview

**Project Name**: Online Shopping Website Management System

**Domain**: eCommerce

**Description**: The Online Shopping Website Management System is an eCommerce software application designed to streamline the operations of an online shopping business. It covers various functionalities such as product promotion, sales, and shipping.

The system includes two main interfaces:

1. **Admin Interface**: This interface allows administrators to manage customers, vendors, products, user accounts, and generate reports.
2. **User Interface**: This interface provides users with features for registration, product search and display, shopping cart management, and product purchases.

## Project Modules

* **Registration Module**
* **Products Browse Module**
* **Products Search Module**
* **Shopping Cart Module**
* **Shipping & Billing Module**
* **Payment Module**
* **Admin User Management Module**
* **Admin Catalog Management Module**
* **Admin Order Management Module**

## Project Details

**Team Size**: 5

**Duration**: 2016 to 2018

**Environment/Tools**:

* **Development**: PHP, JavaScript, Apache Web Server, MySQL
* **Testing**: Java, Selenium WebDriver, Postman, RestAssured, TestNG, Cucumber, Maven, Jenkins, Git

## Role and Responsibilities

**Role**: Automation Engineer - QA

### Responsibilities

* + Designed test cases and test plans.
  + Implemented both manual and automated testing approaches.
  + Executed tests and analyzed results according to client requirements.
  + Detected and classified bugs based on severity, and reported them.
  + Conducted functional web testing using Selenium WebDriver.
  + Performed API testing with Postman and RestAssured.
  + Performed regression testing on every new build of the application.
  + Reported coverage status of tests on a daily/weekly basis.
  + Attended project meetings and interacted with team members to resolve issues.
  + Communicated with the project management team and QA Lead to resolve defects.
  + Actively participated in QA team meetings and UAT meetings.
  + Set up the Selenium test environment with Maven, Selenium WebDriver, Java, TestNG, and Jenkins.
  + Inspected elements, created test cases using element locators, and implemented Selenium WebDriver commands.
  + Wrote Page Object Classes, test scripts, and utilities using Java and Selenium WebDriver.
  + Debugged and executed automation test scripts.
  + Managed test automation resources.
  + Tracked the status of defects and provided status reports during daily meetings.
  + Logged test results and bug reports.

## Testing Scenarios

### GUI Tests

Tested the following scenarios in the application frontend:

* Account Management:
  + Register Account functionality
  + Login/Logout functionality
  + Forgot Password functionality
  + My Account features (Account Information, Change Password, Address Book)
* Product Management:
  + Search and Compare Products functionality
  + Product Display Page for different product types
  + Add to Cart functionality
  + Wishlist functionality
  + Shopping Cart functionality
* Checkout Process:
  + Checkout functionality
  + Order History and Order Information
* User Features:
  + Affiliate and Newsletter functionalities
  + Contact Us, Gift Certificate, and Special Offers pages
* Site Navigation:
  + Header, Menu, and Footer options
  + Currency options across the application

### API Tests

Tested the following API functionalities (backend):

* **Product Management**:
  + Search products with various filters and parameters (limit, page, sort, order, search, etc.)
  + Manage categories by different criteria (depth level, parent ID)
  + Manage stores and get store details
  + Load, search, and compare products
  + Manage wishlist (add, delete, view)
* **Order Management**:
  + Add items to the cart, update quantities, and delete items
  + Apply vouchers, coupons, and rewards to orders
  + Estimate shipping and taxes
* **Country Management**:
  + Get list of countries and details by ID