**Project Planning & Management**

## 1- Project Overview

**Objective**:Ensure Automation Exercise functions as expected across different browsers, devices, and user interactions while maintaining usability and compatibility.

### 1.2 Testing Scope

The following key features and pages will be tested:

* User Authentication (Signup, Login, Logout, Forgot Password)
* User Profile & Settings
* Navigation & Menus
* Product Listing & Search
* Shopping Cart & Checkout
* Payment Gateway & Order Processing
* Contact Forms
* API Integrations

## 2-Assigning Testing Roles

|  |  |
| --- | --- |
| Testing Type | Assigned To |
| Manual Testing | [Shehab Badran, Abdelrahman Mahmoud, Shahd Wael] |
| Functional Testing | [Shehab Badran ,Abdelrahman Alaa, Maryam Farouk ,Abdelrahman Mahmoud, Shahd Wael] |
| API Testing | [Shehab Badran ,Abdelrahman Alaa, Maryam Farouk ,Abdelrahman Mahmoud, Shahd Wael] |
| Automation Testing | [Shehab Badran ,Abdelrahman Alaa, Maryam Farouk ,Abdelrahman Mahmoud, Shahd Wael] |

**3-Functional Testing**

**Authentication & Authorization**

Register a new user (Valid & Invalid inputs)  
 Login with valid and invalid credentials  
 Forgot Password functionality  
 Logout functionality

**Product Search & Filtering**

Search products using the search bar (valid & invalid queries)  
 Use product categories & brands filters  
 Sorting products (price low to high, high to low)

**Cart & Checkout**

Add/remove products from the cart  
 Increase/decrease product quantity in the cart  
 Proceed to checkout (with and without login)  
 Apply discount coupons (if available)  
 Payment process simulation

**User Profile & Orders**

Update personal details (name, email, password)  
 View order history  
 Cancel an order

**Contact Form & Newsletter**

Submit a message using the contact form  
 Subscribe/unsubscribe to the newsletter

## 4- Identifying Risks & Challenges

|  |  |
| --- | --- |
| Browser Compatibility Issues | Test across multiple browsers (Chrome, Firefox, Safari, Edge). |
| Responsive Design Failures | Test on different screen sizes & devices. |
| API Failures | Perform API testing with postman |

## 4-Key Success Metrics

* Functional Accuracy: 100% of critical user workflows must function correctly.
* Cross-Browser Compatibility: The website must work on Chrome, Firefox, Edge, and Safari.
* Mobile Responsiveness: The site must be fully usable on mobile and tablet devices.

## 5-Next Steps

* Review the test plan with the team.
* Start writing test cases for manual and automation testing.
* Execute tests in different environments.
* Log and track bugs for resolution.
* Finalize testing and sign off for deployment.