**Homepage and Navigation Test Cases:**

**TC1: Verify Site Loading**

**Objective**: Ensure the site loads correctly and within an acceptable time.

**Steps**:

Enter the site URL in the browser address bar.

Observe the loading time and any loading errors.

**Expected Result**: The site should load without errors within a few seconds.

**TC2: Navigation Links**

**Objective**: Ensure all navigation links lead to the correct pages.

**Steps**:

Click on each link in the header, footer, and sidebar.

Verify the destination page matches the link description.

**Expected Result**: All links should redirect to the correct pages without errors.

**TC3: Search Functionality**

**Objective**: Verify the search bar returns accurate results.

**Steps**:

Enter a known product or category name in the search bar.

Review the search results for relevance and accuracy.

**Expected** **Result**: The search results should match the query and display relevant products.

**TC4: Homepage Content**

**Objective**: Ensure all content on the homepage loads and displays correctly.

**Steps**:

Review all images, texts, and banners on the homepage for clarity and alignment.

Check for any broken images or layout issues.

**Expected** **Result**: Content should be correctly aligned, with no broken images or texts.

**User Account Management Test Cases:**

**TC5: Registration Process**

**Objective**: Test the user registration process for proper validation.

**Steps**:

Navigate to the registration page.

Enter all required information and submit.

Attempt to register with incomplete or incorrect information.

**Expected** **Result**: Successful registration with valid information, and proper error messages for invalid attempts.

**TC6: Login/Logout Functionality**

**Objective**: Ensure users can log in and out securely.

**Steps**:

Log in with valid credentials.

Attempt to log in with invalid credentials.

Log out from the user account.

**Expected** **Result**: Successful login with valid credentials and proper error messages for invalid attempts. Secure logout should redirect to the homepage or designated page.

**TC7: Profile Management**

**Objective**: Verify users can manage and update their profiles.

**Steps**:

Log into the user account.

Navigate to profile settings.

Update various profile details and save changes.

**Expected** **Result**: All changes should be saved correctly, and users should see updated information in their profile.

**Product Browsing Test Cases:**

**TC8: Product Display**

**Objective**: Ensure products are listed with all necessary information.

**Steps**:

Navigate to various product categories.

Observe the products displayed with images, prices, and descriptions.

**Expected** **Result**: Each product should have an image, price, and description displayed accurately.

**TC9: Product Filtering and Sorting**

**Objective**: Test product filtering and sorting features.

**Steps**:

Apply different filters like category, price, and brand.

Sort products by price, popularity, and new arrivals.

**Expected** **Result**: Products should be filtered and sorted according to the selected criteria.

**TC10: Product Detail Page**

**Objective**: Ensure the product detail page contains comprehensive information.

**Steps**:

Click on a product to view its detail page.

Review the product images, description, price, specifications, and reviews.

**Expected** **Result**: The detail page should display complete and accurate product information.

**Shopping Cart and Checkout Test Cases:**

**TC11: Add to Cart**

**Objective**: Verify products can be added to the cart correctly.

**Steps**:

Select a product and choose options (if any, like size or color).

Click the "Add to Cart" button.

Review the cart for the added product details.

**Expected** **Result**: The product should be added to the cart with the correct details (quantity, size, etc.).

**TC12: Cart Management**

**Objective**: Test the functionality of updating and managing the shopping cart.

**Steps**:

Add multiple products to the cart.

Change the quantity of items and remove items from the cart.

**Expected** **Result**: The cart should update immediately to reflect changes in item quantity and total cost. Removed items should no longer appear in the cart.

**TC13: Checkout Process**

**Objective**: Ensure the checkout process is seamless and accurate.

**Steps**:

Proceed to checkout with items in the cart.

Enter shipping, billing, and payment information.

Complete the purchase and observe the confirmation page and email.

**Expected** **Result**: The user should be able to complete the purchase without errors, and receive confirmation upon successful transaction.

**Payment and Security Test Cases:**

**TC14: Payment Methods**

**Objective**: Test all available payment methods for successful transactions.

**Steps**:

At checkout, select each available payment method one at a time.

Complete the transaction and observe the outcomes.

**Expected** **Result**: All payment methods should process transactions successfully, with appropriate validation and error handling.

**TC15: Secure Transactions**

**Objective**: Ensure all transactions are secure with HTTPS.

**Steps**:

Observe the URL during transactions to ensure it's HTTPS.

Check for security certificates and encryption indicators.

**Expected** **Result**: Transactions should be secure with visible indicators of HTTPS and data encryption.

**Order Management Test Cases:**

**TC16: Order Placement**

**Objective**: Verify that orders are placed and recorded correctly.

**Steps**:

Place an order and complete the checkout process.

Check for a confirmation message and email with order details.

**Expected** **Result**: The order should be placed successfully with accurate details and confirmation sent to the user.

**TC17: Order History and Tracking**

**Objective**: Ensure users can view and track their orders.

**Steps**:

Log into the user account.

Navigate to the order history section.

Select an order to view its status and details.

**Expected** **Result**: Users should be able to view their order history and track the status of current orders.

**Customer Service and Support Test Cases:**

**TC18: Contact Us Functionality**

**Objective**: Test the functionality of the contact form and customer service response.

**Steps**:

Navigate to the "Contact Us" page.

Submit an inquiry through the contact form.

**Expected** **Result**: The inquiry should be submitted successfully, and the user should receive a confirmation or response within a reasonable time.

**TC19: FAQ and Help Sections**

**Objective**: Ensure the FAQ and help documentation are accessible and helpful.

**Steps**:

Navigate to the FAQ and help sections.

Read through various entries to verify the information is correct and comprehensive.

Test any interactive help features like search or topic navigation.

**Expected** **Result**: Users should find accurate and helpful information in the FAQ and help sections. Any interactive features should function correctly to enhance user support.

**Responsiveness and Cross-browser Compatibility Test Cases:**

**TC20: Different Devices Responsiveness**

**Objective**: Ensure the website is responsive and functions correctly across different devices.

**Steps**:

Open the website on various devices (e.g., desktop, tablet, mobile).

Navigate through the site, accessing various features and functions.

**Expected** **Result**: The website should adjust layout and functionality appropriately for each device, maintaining user experience and accessibility.

**TC21: Browser Compatibility**

**Objective**: Test the website across multiple web browsers for consistent functionality.

**Steps**:

Access the website using different browsers like Chrome, Firefox, Safari, and Edge.

Navigate through the site, checking for any discrepancies or issues.

**Expected** **Result**: The website should function smoothly and look consistent across all tested browsers.

**Performance Testing Test Cases:**

**TC22: Page Load Time**

**Objective**: Verify that web pages load within an acceptable timeframe.

**Steps**:

Navigate to various pages of the site.

Measure the time taken for the page to load fully.

**Expected** **Result**: Pages should load quickly, ideally within a few seconds, without long delays or timeouts.

**TC23: Stress Testing**

**Objective**: Determine how the site behaves under high load conditions.

**Steps**:

Use a tool or script to simulate high traffic to the site.

Monitor site performance, including speed and error rate.

**Expected** **Result**: The site should handle increased load with minimal performance degradation, and without critical errors or downtime.

**SEO and Analytics Test Cases:**

**TC24: SEO Standards Compliance**

**Objective**: Ensure that web pages are optimized for search engines.

**Steps**:

Check for proper use of SEO elements like meta tags, headings, URLs, and sitemaps.

Use SEO analysis tools to evaluate page rankings and visibility.

**Expected** **Result**: Pages should be well-optimized according to SEO best practices, with all relevant elements properly implemented.

**TC25: Analytics Integration**

**Objective**: Verify that analytics tracking is properly integrated and capturing data.

**Steps**:

Navigate through the site while monitoring the analytics platform.

Check if user actions are being captured, such as page views, events, and conversions.

**Expected** **Result**: Analytics should be accurately tracking user interactions across the site, providing valid and useful data.