**Test Case 1: Verify User Registration Flow**  
  
Test Case ID: TC\_001    
Test Case Description: Verify that a new user can successfully register on the website.    
Preconditions: \*\* None    
Test Steps:   
1. Navigate to the website: [https://magento.softwaretestingboard.com/.](https://magento.softwaretestingboard.com/)  
2. Click on the "Create an Account" link.  
3. Fill in all the required fields with valid data (e.g., name, email, password, etc.).  
4. Click the "Register" button.  
5. Check the success message or the redirection to the user's account page.  
  
Expected Results:   
- User should be successfully registered and redirected to their account page.  
- A confirmation email should be received (if email verification is part of the registration process).  
 Test Case 2: Verify Login Functionality  
  
**Test Case ID: TC\_002**Test Case Description: Verify that a registered user can log into the website successfully.    
Preconditions: User must be registered.    
Test Steps:   
1. Navigate to the website: [https://magento.softwaretestingboard.com/.](https://magento.softwaretestingboard.com/)  
2. Click on the "Sign In" link.  
3. Enter a valid username (email) and password.  
4. Click the "Login" button.  
5. Verify the user is logged in and redirected to the user’s account page.  
  
Expected Results:   
- The user should be successfully logged in and redirected to their account page.  
- If login fails, an error message should be displayed.  
  
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 **Test Case 3: Verify Product Search Functionality**  
Test Case ID: TC\_003    
Test Case Description: Verify that users can search for a product using the search bar.    
Preconditions: User is on the homepage.    
Test Steps:   
1. Navigate to the website: [https://magento.softwaretestingboard.com/.](https://magento.softwaretestingboard.com/)  
2. In the search bar, type a product name (e.g., “Jacket”).  
3. Click the "Search" icon or press Enter.  
4. Verify that search results relevant to the keyword are displayed.  
  
Expected Results:   
- A list of products related to the search term should be displayed.  
- The product search results should be relevant and accurate.  
  
  
  
 **Test Case 4: Verify Add to Cart Functionality**  
Test Case ID: TC\_004    
Test Case Description: Verify that a user can add an item to the shopping cart.    
Preconditions: User is logged in.    
Test Steps:   
1. Navigate to the website: [https://magento.softwaretestingboard.com/.](https://magento.softwaretestingboard.com/)  
2. Browse and select any product (e.g., a t-shirt or jacket).  
3. Click on the product to view its details.  
4. Click on the "Add to Cart" button.  
5. Go to the cart page and verify the product has been added.  
  
Expected Results:   
- The product should be successfully added to the cart.  
- The cart should display the correct product, quantity, and price.  
  
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**Test Case 5: Verify Checkout Process**  
Test Case ID: TC\_005    
Test Case Description: Verify that a user can successfully complete the checkout process.    
Preconditions: The user is logged in and has items in their cart.    
Test Steps:   
1. Navigate to the website: [https://magento.softwaretestingboard.com/.](https://magento.softwaretestingboard.com/)  
2. Add items to the shopping cart (refer to TC\_004).  
3. Click on the "Cart" icon and click "Proceed to Checkout".  
4. Enter valid shipping and billing information.  
5. Select a payment method (e.g., credit card or PayPal).  
6. Review the order and click "Place Order".  
7. Verify the order confirmation page and email.  
  
Expected Results:   
- The user should be able to complete the checkout process successfully.  
- An order confirmation page should be displayed, and a confirmation email should be sent.

**6. Homepage and Navigation**  
- Test Case for Homepage Layout and Elements:   
 - Test Case: Verify that all key sections on the homepage are displayed correctly (e.g., banners, categories, navigation links).  
 - Reason: Ensure that the homepage elements are rendered properly for the user experience.  
  
- Test Case for Navigation Menu:   
 - Test Case: Verify that all links in the navigation menu lead to the correct pages (e.g., categories, about us, contact).  
 - Reason: Navigation is a core feature, and broken links can severely impact user experience.  
  
  
 **7. Product Browsing and Filters**- Test Case for Product Filters:   
 - Test Case: Verify that filters such as price range, size, color, and category work as expected.  
 - Reason: Filters are crucial for users to narrow down product search results. Test multiple combinations of filters.  
  
- Test Case for Sorting Products:   
 - Test Case: Verify that products can be sorted by options like price (low to high, high to low), newest, and best sellers.  
 - Reason: Sorting improves the user experience by helping customers find products more easily.  
  
- Test Case for Product Detail Page:   
 - Test Case: Verify that product details (images, price, description, size options) display correctly on the product page.  
 - Reason: Ensure the user can get all the necessary information about the product before purchasing.  
 **8. Shopping Cart**- Test Case for Updating Product Quantity:   
 Test Case: Verify that a user can update the quantity of items in the shopping cart.  
 Reason: Users should be able to adjust the quantity of items easily without issues.  
  
-Test Case for Removing Items from Cart:   
Test Case: Verify that users can remove items from the cart successfully.  
Reason: It's essential for users to be able to modify their cart.  
  
Test Case for Cart Persistence:   
Test Case: Verify that items in the cart are retained even after the user logs out and logs back in.  
Reason: Cart items should persist for a smooth shopping experience, even across sessions.  
  
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**9. Checkout Process**  
Test Case for Guest Checkout:   
 Test Case: Verify that users can checkout as guests without logging in.  
 Reason: Some users prefer to make purchases without creating an account.  
  
Test Case for Payment Methods:   
 Test Case: Verify that all payment methods (credit card, PayPal, etc.) work correctly.  
 Reason: A variety of payment methods should be supported, and each should be tested for proper functionality.  
  
Test Case for Order Confirmation Page:   
Test Case: Verify that after a successful checkout, the user is redirected to the correct order confirmation page with order details.  
Reason: Users need confirmation of their order details, and this page should provide clarity.  
  
**10. Account Management**  
  
Test Case for Password Reset:   
Test Case: Verify that users can reset their password by entering their email address and receiving a password reset link.  
 Reason: Password recovery is essential for user account management.  
  
Test Case for Update Account Information:   
Test Case: Verify that users can update personal details such as name, address, email, etc.  
Reason: Users should be able to manage their personal information effectively.  
  
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**11. Edge Cases and Error Handling**  
Test Case for Invalid Login Attempt:   
Test Case: Verify that when a user enters incorrect credentials (wrong username/password), an error message is displayed.  
Reason: Handle edge cases where users enter invalid information.  
  
Test Case for Adding Out-of-Stock Product to Cart:   
Test Case: Verify that users cannot add out-of-stock products to their cart, or they are notified if the product is unavailable.  
 Reason: Prevent users from trying to purchase products that are out of stock.  
  
Test Case for Slow Network/Timeout:   
Test Case: Simulate a slow network or server timeout and verify how the system handles it (e.g., showing loading icons or error messages).  
 Reason: Users should not be left in an indeterminate state, and the application should be resilient.  
  
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**12 Security Tests**  
Test Case for Secure Payment Information:   
 Test Case: Verify that sensitive data like payment information is encrypted and transmitted securely using HTTPS.  
Reason: Ensure that the website meets security standards to protect user information.  
  
Test Case for Session Timeout:  
 Test Case: Verify that the session expires after a period of inactivity and the user is logged out automatically.  
Reason: This helps prevent unauthorized access in case of inactive sessions.  
  
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**13 Mobile Responsiveness**  
- Test Case for Mobile View:   
 - Test Case: Verify that the website is fully functional and responsive on mobile devices.  
 - Reason: With increasing mobile use, testing for mobile responsiveness ensures that the website provides a good experience across devices.