1. **User Registration:**
   * Verify that a new user can successfully register on Flipkart.
   * Validate that all mandatory fields are required during registration.
   * Confirm that the user receives a confirmation email after registration.
2. **Login Functionality:**
   * Test the login functionality with valid credentials.
   * Test the login functionality with invalid credentials and verify error messages.
   * Validate the "Forgot Password" link functionality.
3. **Product Search:**
   * Search for a product using the search bar.
   * Verify that the search results are relevant to the entered query.
   * Check the filters and sorting options on the search results page.
4. **Product Details:**
   * Click on a product and validate that the product details page loads correctly.
   * Verify that the product price and details match the search results.
   * Check for the availability of user reviews and ratings.
5. **Add to Cart:**
   * Add a product to the cart and validate the cart contents.
   * Test the quantity update functionality in the cart.
   * Verify that the total price is calculated correctly in the cart.
6. **Checkout Process:**
   * Proceed to checkout from the cart and validate the checkout page.
   * Test the guest checkout functionality.
   * Validate the payment options and their functionalities.
7. **Order Placement:**
   * Place an order successfully and verify the order confirmation page.
   * Test the order tracking functionality.
   * Verify the order details in the user's order history.
8. **Account Management:**
   * Update user profile information and validate changes.
   * Change the password and ensure the new password works for login.
   * Verify the functionality to delete the user account.
9. **Wishlist:**
   * Add a product to the wishlist and verify its presence.
   * Remove a product from the wishlist and validate the removal.
   * Move a product from the wishlist to the cart.
10. **Navigation:**
    * Test the functionality of the main navigation menu.
    * Check the breadcrumbs on product pages.
    * Validate the functionality of back and forward buttons.
11. **Homepage:**
    * Verify that the homepage loads correctly.
    * Test the functionality of featured sections and banners.
    * Check for any promotional pop-ups or notifications.
12. **Deals and Offers:**
    * Validate the display of deals and offers on the homepage.
    * Test the functionality of the "Today's Deals" section.
    * Verify the application of promo codes during checkout.
13. **Mobile Responsiveness:**
    * Test the website's responsiveness on different mobile devices.
    * Verify the functionality of key features on mobile devices.
14. **Search Auto-suggestions:**
    * Validate that search auto-suggestions appear as the user types.
    * Click on a search auto-suggestion and verify the results.
15. **Social Media Integration:**
    * Test the integration of social media sharing options on product pages.
    * Verify the functionality of logging in with social media accounts.
16. **Customer Support:**
    * Test the live chat functionality on the customer support page.
    * Validate the functionality of the "Contact Us" form.
    * Check the FAQ section for accuracy and completeness.
17. **Language and Region:**
    * Test the functionality of changing the website language.
    * Verify that the region-specific content is displayed correctly.
18. **Sorting and Filtering:**
    * Test sorting products by different criteria (price, relevance, etc.).
    * Apply various filters and verify that the results are accurate.
19. **Review Submission:**
    * Submit a product review and verify its display on the product page.
    * Test the moderation process for user-submitted reviews.
20. **Email Notifications:**
    * Validate that the user receives order confirmation emails.
    * Test email notifications for promotions and offers.

4. Validate Forgot Password Functionality:

a. Click on the "Forgot Password" link.

b. Enter a valid registered email address or phone number.

c. Confirm that a password reset link or code is sent to the provided email/phone.

d. Reset the password using the link or code.

e. Verify that the password is successfully updated, and the user can log in with the new credentials.

5. Test Remember Me Option:

a. Log in with valid credentials.

b. Check the "Remember Me" option.

c. Close the application and reopen it.

d. Confirm that the user is still logged in without the need to enter credentials again.

6. Test Session Timeout:

a. Log in and keep the application idle for a period longer than the session timeout duration.

b. Perform an action that requires authentication.

c. Verify that the user is prompted to log in again due to session expiration.

7. Test Social Media Authentication:

a. Click on the "Login with Google/Facebook" option.

b. Enter valid credentials for the selected social media platform.

c. Confirm that the user is successfully authenticated and logged in.

8. Validate Two-Factor Authentication (2FA):

a. Enable two-factor authentication for the account.

b. Log in with valid credentials.

c. Enter the code received through SMS or authenticator app.

d. Verify that the user is successfully logged in.

9. Test Account Deactivation:

a. Log in to the account.

b. Navigate to the account settings.

c. Deactivate the account.

d. Attempt to log in after deactivation.

e. Confirm that the user cannot log in, and an appropriate message is displayed.

10. Test Account Security Settings:

a. Verify that the account settings allow the user to update the password.

b. Test updating the password successfully.

c. Confirm that the updated password works for subsequent logins.

11. Cross-Browser and Cross-Device Testing:

a. Perform user authentication testing on different web browsers (Chrome, Firefox, Safari).

b. Test the authentication process on various devices (desktop, tablet, mobile).

Postconditions:

Log out of the Flipkart account (if logged in).

Close the application.