Documentation for demoblaze Test Page

Libraries Used:

pandas: Imported as `pd` for reading data from Excel (`read_excel` function).

selenium. webdriver: Used for automating web interactions.

selenium.webdriver.common.by: Provides methods for locating elements on a web page.

selenium. webdriver.support.ui: Allows explicit waits for conditions.

selenium.webdriver.support.expected_conditions: Defines the expected conditions for WebDriverWait.

Key Syntax and Functions:

WebDriverWait: Used to wait for a certain condition before proceeding (e.g., `WebDriverWait(driver, 10).until(EC.element_to_be_clickable((By.ID, 'signin2')))`).

-EC (expected_conditions): Provides predefined conditions to wait for (e.g., `EC.element_to_be_clickable`, `EC.presence_of_all_elements_located`).

driver.get("url"): Navigates the browser to the specified URL.

element.click(): Clicks on a web element.

element.send_keys("text"): Sends text input to a web element.

time.sleep(seconds): Pauses execution for a specified number of seconds to synchronize with page changes.

Functionalities Automated:

1.User SignUp: Automates signing up with valid details from an Excel file.

2. User Login: Logs in with valid credentials and verifies successful login.

3. Product Browsing: Checks if products are displayed correctly and navigates through different categories.

4. Adding Products to Cart: Automatically adds the last product on the last page to the shopping cart.

5. Checkout Process: Verifies items in the cart and tests both positive and negative checkout scenarios.

6. Logout Process: Logs out after successful login.

Execution Flow:

- Each scenario is implemented using WebDriver actions encapsulated in `try-finally` blocks to ensure proper cleanup (`driver.quit()`).

- Comments indicate sections of code for different scenarios (e.g., SignUp, Login, Product Browsing).

- Detailed waits (`WebDriverWait`) ensure synchronization with page loading and element visibility.