Test Plan

Objective

To ensure that the booking process for an apartment for two persons in Istanbul for 10 days on Booking.com works correctly and efficiently.

Scope

- Verify that the search functionality returns appropriate results.
- Ensure that the apartment details page loads correctly.
- Validate the booking process from selecting dates to confirming the booking.

Testing Approach

- **Automation Testing**: Using Selenium to automate the key functional tests.

Resources

- Testers: 1 Automation Engineer
- Tools: Selenium WebDriver, C# programming language, Browser (Chrome/Firefox)
- Environment: Windows 11, Visual Studio

Risks and Mitigations

- Risk: Changes to Booking.com's UI might break tests.

Deliverables

- Test Plan Document
- Test Scenarios and Test Cases
- Automation Test Scripts (GitHub link)
- Screen Recording of the Automation Process

Test Scenarios

1. **Search Functionality**
   - Verify that the user can search for apartments in Istanbul for specified dates.
2. **Search Results**
   - Verify that the search results page displays apartments available for the specified dates.
3. **Apartment Details Page**
   - Verify that the user can open an apartment details page from the search results.
4. **Booking Process**
   - Verify that the user can select dates, fill in personal information, and proceed with the booking.

Test Cases

Test Case 1: Verify that the Booking.com homepage loads successfully.

- **Steps**: Navigate to `https://www.booking.com`
- **Expected Result**: The homepage loads with the correct title.

Test Case 2: Search Functionality

- **Precondition**: User is on the Booking.com homepage.
- **Steps**:
  1. Enter "Istanbul" in the destination field.
  2. Select check-in and check-out dates (10 days).
  3. Click the search button.
- **Expected Result**: Search results page displays with available apartments in Istanbul.

Test Case 3: Search Results

- **Precondition**: User has performed a search for apartments in Istanbul.
- **Steps**:
  1. Verify that the results list displays apartments.
  2. Verify that the search filters are available.
- **Expected Result**: Apartments matching the search criteria are displayed.

Test Case 4: Apartment Details Page

- **Precondition**: User is on the search results page.
- **Steps**:
    1. Click on an apartment listing.
    2. Verify that the details page loads with information about the apartment.
- **Expected Result**: Apartment details page loads with correct information.

Test Case 5: Booking Process

- **Precondition**: User is on the apartment details page.
- **Steps**:
    1. Select check-in and check-out dates.
    2. Fill in required personal information.
    3. Proceed to payment.
- **Expected Result**: User can proceed through the booking process without errors.

Test Cases will not implemented

Test Case 6: Fill Out Booking Form

- Verify that the booking form can be filled out with personal details.
    - Enter personal details (first name, last name, email).
    - **Expected Result**: Personal details are entered.

Test Case 7: Verify Booking Confirmation

- Verify that the booking confirmation is received.
    - **Steps**:
        1. Submit the booking form.
        2. Verify that a booking confirmation message is displayed.
    - **Expected Result**: Booking confirmation message is displayed.