

# Software Test Design

airbnb



Mahmood Odeh

- Introduction

- Document overview

The airbnb Software Test Description (STD) document outlines the test preparations, test cases, and test procedures for qualification testing of the airbnb website. This document is prepared in accordance with the guidelines outlined in the Software Requirements Specification (SRS) and Software Design Description (SDD) documents.

- Project overview

The Airbnb website is a popular online marketplace for lodging, primarily homestays for vacation rentals, and tourism activities. It allows people to rent out their properties or spare rooms to guests. Airbnb website connects travelers with hosts who have accommodations available for short-term rental. Users can search for accommodations based on location, dates, price range, and amenities. They can view detailed listings, including photos, descriptions, and reviews, and book accommodations directly through the website. Airbnb aims to provide a user-friendly platform for travelers to find and book accommodations, and for hosts to list their properties and manage bookings. The key features are designed to enhance the user experience and ensure the smooth operation of the platform.

- project references

#	Documents	Title
R1	STP	Software Test Plan
R2	Business Specification	Business Specification
R3	Requirements document	Requirements

- Tests basic preparations

- Hardware basic preparation

- **Browser Devices:**

- 1- Variety of devices:** Test on different browsers like chrome ,edge and firefox.

- 2- Operating systems:** Include Devices with various operating systems such as windows unix.

- **Computers:**

- 1- System Specifications:** Include computers with different specifications (RAM, CPU, GPU) to test the airbnb website interface under various system loads.

- **Network Hardware:**

- 1- Routers:** For testing network stability, latency, and performance impacts on the app's functionality.

- Software basic preparation

- **Operating systems:** Include Devices with various operating systems such as windows unix.

- **Testing tools:** pycharm ,selenium and selenium grid.

- **The tested software:** airbnb website.

- Data preparation

- User Registration and Login:

- Valid Registration:

- a. Input: Valid user information (name, email, password).

- b. Expected Outcome: Registration is successful, and a new user account is created.

- Invalid Registration:

- a. Input: Existing email or invalid data.

- b. Expected Outcome: Registration fails with appropriate error message.

- User Login:

- a. Input: Registered email and password.

- b. Expected Outcome: User successfully logs in to their account.

- Booking Management:

- View Booking History:

- a. Input: User navigates to booking history section.

- b. Expected Outcome: User can view past and upcoming bookings.
  - Manage Bookings:
    - a. Input: User attempts to cancel or modify a booking.
    - b. Expected Outcome: User can manage bookings as expected.
- Payment Processing:
  - Add Payment Method:
    - a. Input: User adds a valid payment method.
    - b. Expected Outcome: Payment method is successfully added to the account.
  - Make a Payment:
    - a. Input: User makes a payment for a booking.
    - b. Expected Outcome: Payment is processed, and booking is confirmed.
  - Payment Confirmation:
    - a. Input: User completes a payment.
    - b. Expected Outcome: User receives a confirmation email.
- Profile Management:
  - Edit Profile Information:
    - a. Input: User edits their profile information.
    - b. Expected Outcome: Profile information is updated successfully.
  - Change Account Settings:
    - a. Input: User changes email preferences or notification settings.
    - b. Expected Outcome: Account settings are updated as requested.
- Search and Filter:
  - Search Functionality:
    - a. Input: User enters search criteria (price, date, etc.).
    - b. Expected Outcome: Search results are displayed correctly.
  - Clear Search:
    - a. Input: User clears the search criteria.
    - b. Expected Outcome: Search criteria are cleared, and default results are displayed.
  - Navigation Bar Search:
    - a. Input: User searches using the navigation bar.
    - b. Expected Outcome: Search results are displayed based on the navigation bar input.
  - Date-based Search:
    - a. Input: User searches using specific dates.
    - b. Expected Outcome: Search results are filtered based on the selected dates.

- Error Handling for Wrong Dates:
  - a. Input: User enters incorrect booking dates.
  - b. Expected Outcome: User receives an error message indicating the issue.

- Test scenarios

Some examples of test cases scenarios:

Test Cases

Successfully updated the test case.

Type Other	Priority Medium	Assigned To None	Estimate None
References None	Automation Type None		

**Preconditions**

at least two different browsers in the computer  
the device have internet connectivity

**Steps**

1	enter the airbnb website	airbnb website open
2	press the filter button	a new page came up with different filtering types
3	enter the minimu price in the minimum field	the price range will show in the minimum field
4	enter the maximum maprice in the maximum field	the price range will show in the maximum field
5	press clear	the website will show the houses in the range that enter

est Cases

Successfully updated the test case.

Type Other	Priority Medium	Assigned To None	Estimate None
References None	Automation Type None		

**reconditions**

at least two different browsers in the computer  
the device have enternet connecty

**teps**

1	enter the airbnb website	airbnb website open
2	press the filter button	a new page came up with different filtering types
3	enter a minimum price in the field but minus	the price will transfer for the minimum number that was in the field
4	enter a maximum price in the field but minus	the price will transfer for the maximum number that was in the field
5	press search	the airbnb website show you the houses with the range that was before inter the numbers

Test Cases

Successfully updated the test case.

Type Other	Priority Medium	Assigned To None	Estimate None
References None	Automation Type None		

Preconditions

at least two different browsers in the computer  
the device have internet connectivity

Steps

1	enter the airbnb website	airbnb website open
2	press the filter button	a new page came up with different filtering types
3	enter the maximum price in the minimum field	the price range will show in the minimum field
4	enter the minimum maxprice in the maximum field	the price range will transfer to the price that put in the minimu field plus 5
5	press clear	the website will show the houses in the range what enter in the minimum fiel and the the minimum plus 5

Test Cases

Successfully updated the test case.

Type Other	Priority Medium	Assigned To None	Estimate None
References None	Automation Type None		

Preconditions

at least two different browsers in the computer  
the device have internet connectivity

Steps

1	enter the airbnb website	airbnb website open
2	press the filter button	a new page came up with different filtering types
3	enter a minimu price in the minimum field	the price will show in the field
4	enter a maximum price in the field maximum	the price will show in the field
5	press clear	all the input back to the situation that was

Test Cases

Successfully updated the test case.

Type Other	Priority Medium	Assigned To None	Estimate None
References None	Automation Type None		

Preconditions

at least two different browsers in the computer  
the device have internet connectivity

Steps

1	enter the airbnb website	airbnb website open
2	press the filter button	a new page came up with different filtering types
3	use the navigate bar to select the price	the price range will show in the field
4	press search	the website will show you the houses with the range choose

Test Cases

Successfully updated the test case.

Type Other	Priority Medium	Assigned To None	Estimate None
References None	Automation Type None		

Preconditions

at least two different browsers in the computer  
the device have internet connectivity

Steps

1	enter the airbnb website	airbnb website open
2	press the check in button	the agenda with the dayes will show
3	select date to check in	the day select will be marked
4	press the check out button	the agenda with the dayes will show
5	select date to check out	the day selecte will be marked with all days since check in
6	press search	the website will show you all the houses that available by the dates select

Test Cases

Successfully updated the test case.

Type Other	Priority Medium	Assigned To None	Estimate None
References None	Automation Type None		

Preconditions

at least two different browsers in the computer  
the device have internet connectivity

Steps

1	enter the airbnb website	airbnb website open
2	press the check out button	the agenda with the dayes will show
3	select date to check out	the day select will be marked
4	press the check in button	the agenda with the dayes will show
5	select date to check in	the day selecte will be marked and the check out will not marked
6	press the check out button	the agenda with the dayes will show
7	select date to check out	the day selecte will be marked with all the days from the check in that select
8	press search	the website will show you all the houses that available by the dates select

Test Cases

Successfully updated the test case.

Type Other	Priority Medium	Assigned To None	Estimate None
References None	Automation Type None		

Preconditions

at least two different browsers in the computer  
the device have internet connectivity

Steps

1	enter the airbnb website	airbnb website open
2	press the who button	the agnerations list will show include the plus minus for the adgenerations adultes childrens and babies
3	select date to check out	the day selecte will be marked with all the days from the check in that select
4	press search	the website will show you all the houses that availible depends on the generation and number people selected

Test Cases

Successfully updated the test case.

Type Other	Priority Medium	Assigned To None	Estimate None
References None	Automation Type None		

**Preconditions**

at least two different browsers in the computer  
the device have internet connectivity

**Steps**

1	enter the airbnb website	airbnb website open
2	press the world button	the list of the languages will appear
3	press search	the website will transfer from hebrew to english

Test Cases

Successfully updated the test case.

Type Other	Priority Medium	Assigned To None	Estimate None
References None	Automation Type None		

**Preconditions**

at least two different browsers in the computer  
the device have internet connectivity

**Steps**

1	enter the airbnb website	airbnb website open
2	press on the left arrow	more categories will show
3	press on one of the category that show	the website will show you the houses from this categories

## ● Requirements Traceability

Requirement ID	Requirement Description	Test Case ID	Test Case Description
R1	New user registration with valid information	TC1	Verify successful registration with valid information



R2	Registration failure with invalid information	TC2	Verify registration failure with invalid information (e.g., duplicate email)
R3	Registered user login with correct credentials	TC3	Verify successful login with correct credentials
R4	Login failure with incorrect credentials	TC4	Verify login failure with incorrect credentials
R5	User password reset using the forgot password feature	TC5	Verify successful password reset using forgot password feature
R6	View booking history	TC6	Verify users can view their booking history
R7	View upcoming and past bookings	TC7	Verify users can view upcoming and past bookings
R8	Manage bookings (e.g., cancel, modify dates)	TC8	Verify users can manage their bookings (cancel, modify dates)
R9	Add a payment method to the account	TC9	Verify users can add a payment method to their account
R10	Make a payment for a booking using the selected payment method	TC10	Verify users can make a payment using the selected payment method
R11	Receive a confirmation email after making a payment	TC11	Verify users receive a confirmation email after making a payment

<b>R12</b>	<b>View payment history</b>	<b>TC12</b>	<b>Verify users can view their payment history</b>
<b>R13</b>	<b>Ensure payment processing is secure and PCI compliant</b>	<b>TC13</b>	<b>Verify payment processing is secure and PCI compliant</b>
<b>R14</b>	<b>Edit profile information</b>	<b>TC14</b>	<b>Verify users can edit their profile information</b>
<b>R15</b>	<b>Change account settings (e.g., email preferences, notification settings)</b>	<b>TC15</b>	<b>Verify users can change their account settings</b>
<b>R16</b>	<b>Search based on price</b>	<b>TC16</b>	<b>Verify users can search based on price</b>
<b>R17</b>	<b>Clear the search</b>	<b>TC17</b>	<b>Verify users can clear the search</b>
<b>R18</b>	<b>Search by the navigation bar</b>	<b>TC18</b>	<b>Verify users can search using the navigation bar</b>
<b>R19</b>	<b>Search by dates</b>	<b>TC19</b>	<b>Verify users can search by dates</b>
<b>R20</b>	<b>Search by generation</b>	<b>TC20</b>	<b>Verify users can search by generation</b>