Exploratory Testing Challenge

Notes

Functional Requirements

Listing a Space:

- Signed-up users can list spaces
- A user can list multiple spaces
- The space should have a name, description, price per night, and available dates

Booking a Space:

- Users can request to book a space for one night
- Booking requests require approval from the space owner
- Booked nights should be marked as unavailable
- Users can still book unconfirmed spaces

Potential Test Areas

Dates:

- Available dates clickable
- Non-available dates grayed out and not clickable
- Test if dates can be double booked

Spaces:

- List a space- does every box need to be completed to list the space
- Spaces are still available until confirmed as per the specification
- Test what happens if a request has been submitted, but not confirmed
- Test that the approval request goes through to the space owner and they can press to accept or deny the request

User Experience:

- Test the overall flow of the process as a space owner user from home page to log in page, listing a space and viewing requests before confirming or denying them
- Test the overall flow of the process as a user requesting a space and waiting to see if the request is confirmed or denied
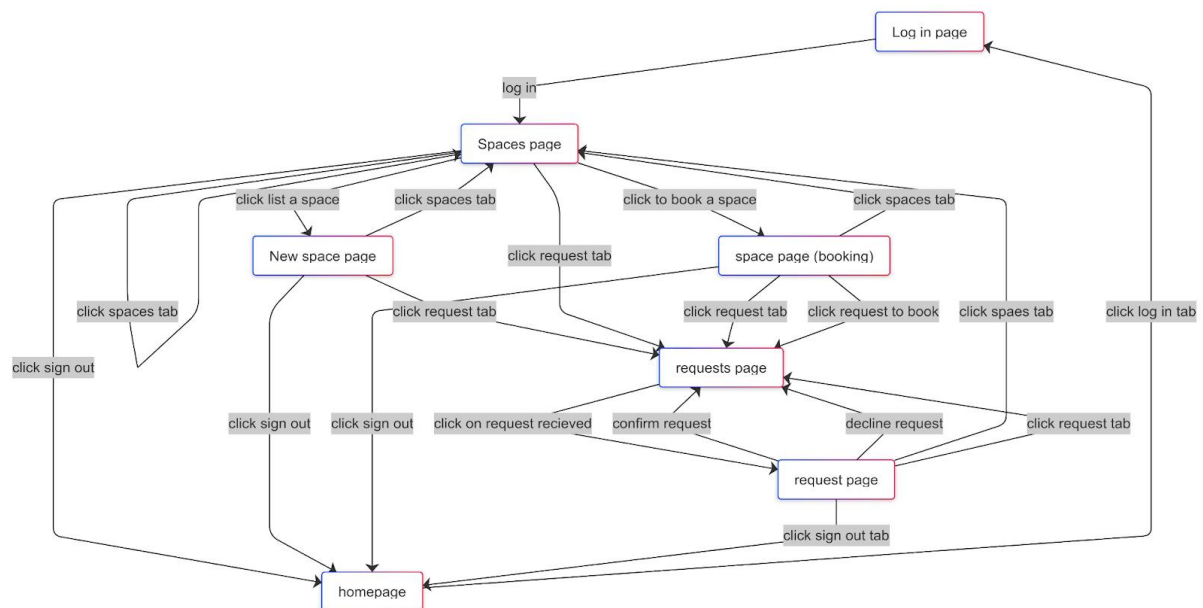
Risks

- Log in page – email address and password need to be verified
- Spaces cannot be confirmed for more than one user

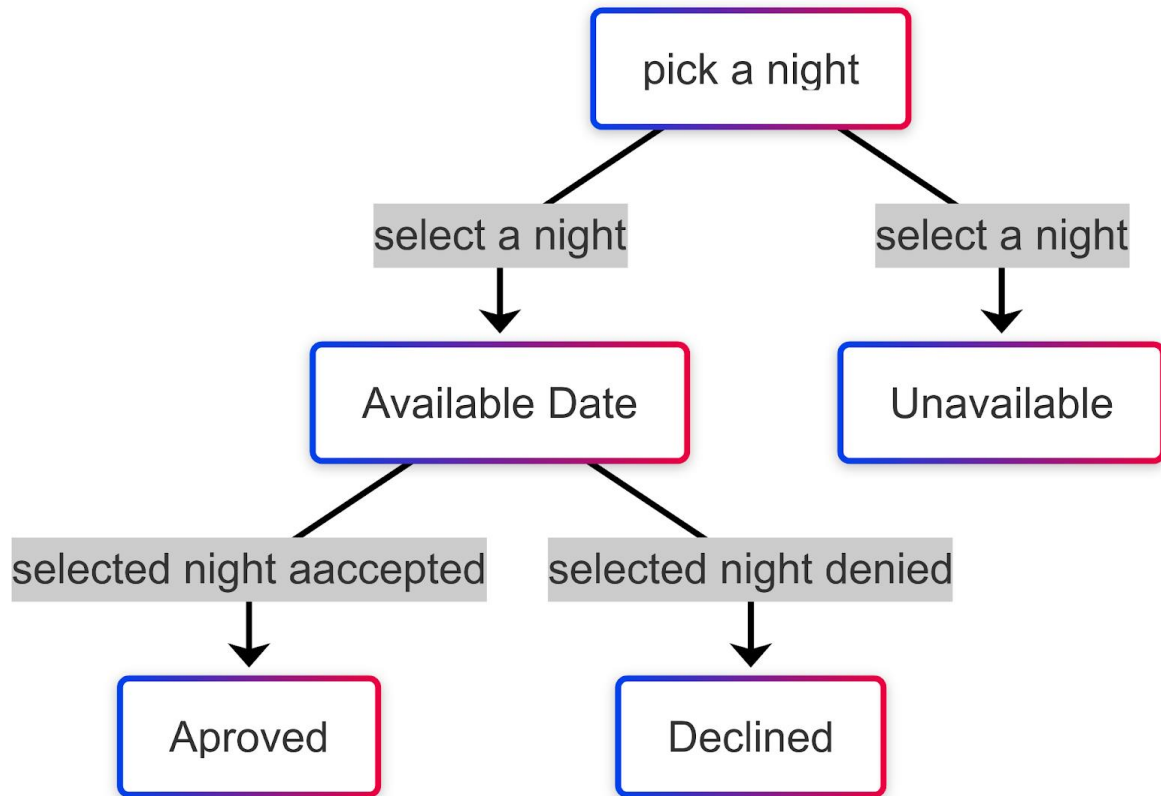- How the system works with many listings or bookings

Assumptions and Questions

- How many days that can be booked – is there a maximum?
- Is the person listing the space verified that they can list this space?
- Where does the user view the multiple spaces that they have listed?
- Is this assumption that we can end a booking and start a new booking on the same date for check out and check in?
- Can we assume that the request to book page then transitions to the requests page as the wireframe does not show this explicitly?
- Can we assume that when we click on requests I've received that it takes the user to the request page as the wireframe does not show this explicitly?
- Is there same day booking so you can book to stay that same evening?

<u>Mind Map</u>

<u>State diagram</u>

```
                    ┌─────────────────┐
                    │   pick a night  │
                    └────────┬────────┘
              select a night │ select a night
          ┌──────────────────┴──────────────────┐
          ▼                                      ▼
┌─────────────────┐                    ┌─────────────────┐
│  Available Date │                    │   Unavailable   │
└────────┬────────┘                    └─────────────────┘
 selected night   selected night
   aaccepted        denied
    ┌──────┴──────┐
    ▼             ▼
┌─────────┐  ┌─────────┐
│ Aproved │  │ Declined│
└─────────┘  └─────────┘
```

Exploratory testing session

Focusing on booking a space functionality. A user requests to book someone else's space. Then the space owner receives a request for their own space and they can request or deny it. Then the space owner lists a space.

0-10 minutes- Home Page, Log In Page and Spaces Page links:

Start on Home page, click on log in to transition to the initial log in page- test if can log in. Testing what happens if an incorrect username and password is input. Testing what happens when a user is not registered.

Assuming log in page transitions to the spaces page. Testing functionality of the spaces page as a user requesting to book someone's else space. Click through a variety of spaces to check to see if there are any duplicates or errors in clickable links.

Test the tabs on the spaces page to see if they are all clickable.

10-25 minutes- Spaces Page dates:

On the spaces place test the dates, checking whether a date in the past can be requested and testing edge cases for any dates including booking the current date, yesterday and the next day.

Test if grayed out dates can be clicked on and test available dates are clickable.

User experience- is it readable, is it easy to use, are the fonts accessible? Functionality of the calendar- is it easy to navigate through the months, how far back and forward can you go on the calendar? No need to go far back in the past if requesting a booking.

Repeat the same process with 3 other spaces listings to check functionality.

25-35 minutes – Space Page request booking:

Test making a request to book a space. Start with booking one night for several spaces listings. Move onto testing different length stays including two nights, one week or one month. Testing same day booking and if you can book multiple spaces for the same day as one user.

Test the limits of how many requests can be made and if they all go through to the requests page. Test that the details match in terms of dates and spaces details.

35 minutes-50 minutes – Space Owner accept/deny request:

Log in as a space owner and navigate to the requests page. Check that the requests have been received. Click on a request which should transition to the request page. Check functionality of the accept request booking tab that it goes back to the requests page. Assuming that there is an accept indicator/marker on the request page now to confirm that the space owner has accepted the request. Otherwise this is a missing bit of functionality.

Test whether the request page allows the space owner to accept multiple bookings for the same date for the same space as this would be an error.

Do the same tests with the deny request booking tab to see how if it goes back to the requests page. Assuming that there is a request denied indicator/marker on the request page now to confirm that the space owner has denied the request.

Test what happens when the space owner goes back to the request page to see if the space request has now been removed from the request page or if there is an indicator or marker on it that the space has been accepted or denied.

50 minutes-75 minutes – Space Owner lists a space:

Testing the functionality of a space owner listing a space. Log into account, click on list a space on the spaces page. Write some test examples for the boxes on the new space page. Test with what we think is a valid test example – short name, medium length description, price £100, available from 01/05/2025 until 07/05/2025 for a one week booking. Then pressing on list a space which should transition back to the spaces page with the listing included.

Test other cases including long name, very short name, no name included to see if the listing is still allowed. Could also include no description, high price per night or £0 price per night. For dates, test the boundaries of how long it is available for – can availability be added for over a year for example?

Observation- is a separate listing required every time the space is available or can multiple available dates be included on the one listing as this is not included on the wireframe?

Test the functionality of adding a duplicate listing with the same available dates. Will the system allow this and make notes about any functionality.

75-90 minutes – write up findings:

Write up findings from the notes taken during the exploratory session. Assuming bug reports were written during the exploratory session. Write down any future plans for testing, including any functionality not testing yet or wanting to test further.

Other tests that can be conducted in a future session include having an account as a space owner and having requests received but also having requests made for other people's spaces. Also, testing the functionality of multiple requests for the same space at the same time.

Test Cases

Case	Description	Steps	Expected Results
TC01	Home Page navigation	Click "Log In" from Home page	Redirect to login page
TC02	Valid Login	Enter correct credentials	Redirect to Spaces page
TC03	Invalid Login	Enter wrong username/password	Error message shown
TC04	Unregistered User	Log in with unregistered credentials	Error message or prompt to register
TC05	Past Date Selection	Select a past date	Selection blocked or grayed out
TC06	Edge Date Cases	Select today, tomorrow and last available date	All valid dates are selectable and clickable, all invalid dates are grayed out

TC09	Grayed-Out Dates	Click grayed-out dates	Dates not selectable/clickable
TC10	One Night Booking	Request 1 night stay	Request is successful and shown on the Requests page
TC11	Multi-Night Booking	Request 2 nights, 1 week, 1 month	Requests are successful and shown on the Requests page
TC12	Same-Day Booking	Request for current day	Request allowed or appropriate request message shown
TC13	Booking Request Limit	Send many requests rapidly	All requests appear on Requests page
TC14	Valid Space Listing	List with valid name, description, price and dates	Space listed and appears on Spaces page
TC15	Invalid Names on Space Listing	Test long/short/missing names	Validation or warning shown
TC16	No Description on Space Listing	Submit space listing with no description	System allows or warning shown
TC17	Price Limits on Space Listing	Use £0 or high price	System shows price rules message
TC18	Date Range Limits on Space Listing	Add availability over 1 year	System allows or has date range restrictions message
TC19	Space Owner lists duplicate listings	Space owner lists same space/dates again	Allowed or duplicate warning shown