

# Introduction to testing - Analysis part 2

## Tree of test areas

What is it's role and how would we test it

- Home page (sign up page)
  - Role - landing page for website - where new users can sign up. Links to 'About' and 'Login' that direct to their respective pages. and makers logo/link
  - Tests
    - All links should redirect correctly
    - Email address, password and password confirmation fields
      - a valid account entry
      - an invalid entry
        - isolating each field
        - leaving them blank
        - all incorrect
      - Extra ways to break the fields
        - pasting in 100000 words eg
        - or scripts
- Login Page
  - Role - allow an existing user to log into their account (+ about and login page, and makers logo/link)
  - Tests
    - All links should redirect correctly
    - Email address, password fields
      - a valid account entry
      - an invalid entry
        - isolating each field
        - leaving them blank
        - all incorrect
      - Extra ways to break the fields
        - pasting in 100000 words eg
        - or scripts
- Spaces page (multiple)

- Role - to display all the available spaces and to be able to filter them using available from and to fields (dates). Links - spaces, requests, signout, list a space. The spaces themselves should be clickable
- Tests
  - All links should redirect correctly
    - eg list a space should direct to the New space page
  - sorting function, valid date ranges
  - sorting function invalid date ranges
  - blank fields etc
  - multi click the list spaces button - see if it changes the listed spaces
- New Space page
  - Role - Form for entering the name, description, price per night, availability range (dates). Links - spaces requests, signout, makers, list my space
  - Tests
    - All links should redirect correctly
    - Each field can be entered into
    - test valid entry - list the space, see on the redirected spaces page
    - test invalid entries
      - negative numbers
      - invalid dates
      - name validation
      - malicious content
- Space page (singular)
  - Role - Show available dates - automatically display current month. This calendar should be navigable. Any unavailable dates are grey'd out. Dates can be selected by clicking to form a range and then you can click 'request to book' to request.
  - Tests
    - All links should redirect correctly
    - can navigate calendar
    - making sure invalid dates cannot be selected
    - make sure valid dates can be requested as above
- Request<sup>s</sup> page (multiple)
  - Role - Show a dashboard of requests made and received for the currently logged into account. Also be able to click on them to go to the relevant details.
  - Tests

- All links should redirect correctly
  - page updates with other pages' actions
- Request page (singular)
  - Role - allow the user to confirm or deny correctly displayed requests for their 'spaces'.
  - Test
    - All links should redirect correctly
    - page updates with other pages' actions

## Risks

General:

- website going down
- web attacks
- etc
- dead links
- Home page (sign up page)
  - PID - data handling
- Login Page
  - skimming of login details
  - get in without logging in correctly
- Spaces page (multiple)
  - displaying of inappropriate material
  - invalid spaces
- New Space page

- posting of inappropriate material
- invalid spaces
- Space page (singular)
  - invalid booking requests
  - wasted admin time
- Request page (multiple)
  - wrong data
- Request page (singular)
  - wrong data

## Assumptions

General:

- Navigating a made request allows you to edit it
- The page's diagrams are representative
- the sign up page and other areas do not allow duplication
- That the company/website supports positive and ethical work practices
- That the specification is accurate:
  - Any signed-up user can list a new space.
  - Users can list multiple spaces.
  - Users should be able to name their space, provide a short description of the space, and a price per night.
  - Users should be able to offer a range of dates where their space is available.
  - Any signed-up user can request to hire any space for one night, and this should be approved by the user that owns that space.
  - Nights for which a space has already been booked should not be available for users to book that space.
  - Until a user has confirmed a booking request, that space can still be booked for that night.
- That the email notification system works for all projected areas

## Questions

- What is your opinion on the controversy around the gig economy and the other ethical employment concerns that often arise from similar companies?
- What other implementation are you looking to add?
- Are you satisfied that the spec we have is comprehensive?

## First 90 min rough plan:

- Start with a full run through of the basic functionality
  - log in with valid details
  - click through the pages and list a space
  - make a booking on that space (with a diff user if needed)
  - check accept and reject
  - see if this shows on both accounts
  - check email verifications etc as well
- next would probably check all links between pages
- afterward would move on to using invalid information
  - logins
  - dates
  - prices/number entries as text etc
  - mess with the calendar

## Example of a test case:

### Test purpose

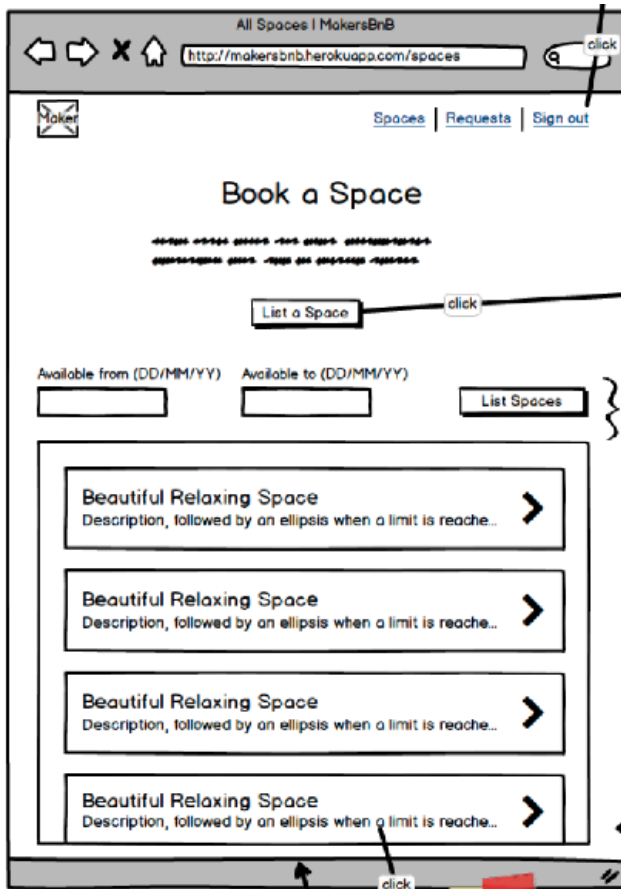
To see whether we can log in with valid details and get redirected to the correct page with the correct information

- load up the start page
- click log in link at the top right
- enter the valid information into the email address and password fields
- click login button below

Expected output:

- expecting for no errors

- expecting to be presented with the real version of the page illustrated below

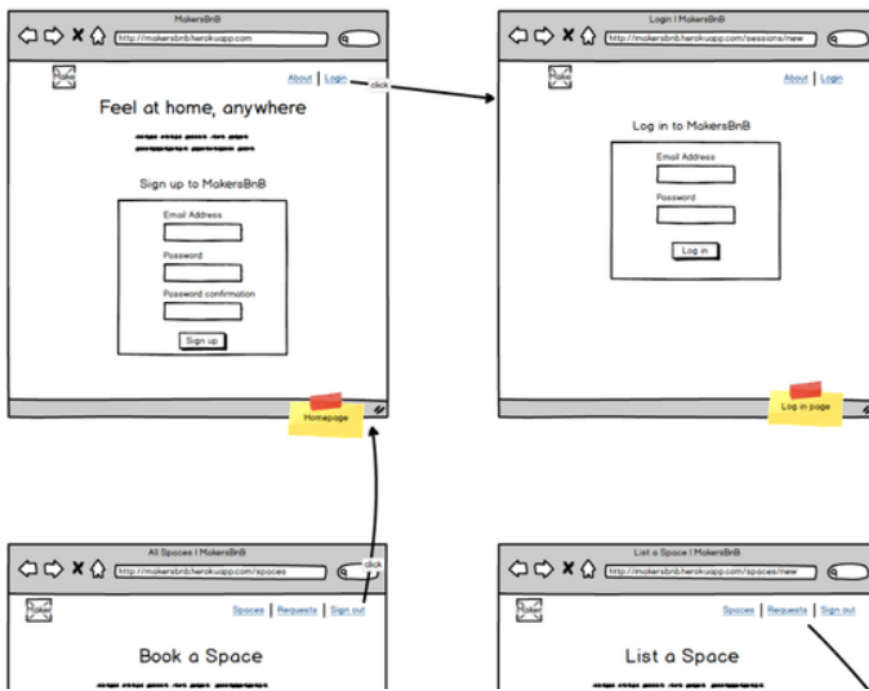


## Notes -

- Entry of active notes here for when manually running this test

This is the approx structure of how we could record and prepare our tests when running through all the bullet points within the 'tree of test areas' section.

## Diagram Notes:



- Further breakdown of link movement
- explanation of the header - is it the same code across pages?
- Arrows are not comprehensive
- sticky labels are sticky right? so why do they need tape?
- the sticky label names don't always match the url/
- Generally is a good diagram
- Could be coupled with a more detailed run though to reduce assumptions

