1. Approach to test <https://buythisspace.com.au>

* Will test at API and UI level, not sure about code level, developers should cover their code by unit testing.

If released to production, will also need browser compatibility testing, mobile testing, performance testing, security testing etc.

* API testing example

GET home page content <https://buythisspace.com.au/> should return status code 200 (now status code is 500)

GET billboard search result, e.g. <https://buythisspace.com.au/search-page/?gmw_address%5B0%5D=Sydney%20NSW&gmw_distance=50&gmw_units=metric&gmw_form=1&gmw_per_page=51&gmw_lat=-33.8688197&gmw_lng=151.20929550000005&gmw_px=pt&action=gmw_post> should return status code 200

GET individual search result detail, e.g. <https://buythisspace.com.au/adsites/qld-townsville-garbutt-woolcock-street-6/> should return status code 200

POST lead detail, e.g. <https://sales-portal.oohmedia.com.au/api/leads> should return status code 200

* UI testing

Verify clicking ‘BUY THIS SPACE’ return to home page

Verify clicking ‘SEARCH’ return to home page

Verify clicking ‘WHY OUTDOOR?’ goes to ‘why-outdoors’ sub page

Verify clicking ‘CONTACT US’ goes to ‘contact-us’ sub page

Verify clicking ‘1300791989’ goes to ‘Open <URL:tel>’ pop-up

Verify clicking ‘TERM OF USE’ goes to ‘terms-conditions’ sub page

Verify clicking ‘PRIVATE POLICY’ goes to ‘privacy-policy’ sub page

Verify ‘Find a billboard’ text field IN SEARCH PAGE has auto-complete function (this is probably a bug since the same field in home page does not auto-complete function)

Verify ‘Kilometers’ is a dropdown with options

Verify search functionality by selecting a location and range, click search button goes to search result page, and all search result should have location text in the header

Verify clicking on one of search result goes to the adsite detail page

Verify clicking on ‘BACK TO SEARCH RESULT’ button in adsite detail page goes to search result page

Verify ‘GET IN TOUCH’ functionality works after filling all required fields and submit

Verify ‘need some advice’ functionality by filling ‘name’, ‘email address’, ‘number’, click submit icon, and ‘thank you ..’ text should display afterwards

THE ABOVE SCENARIOS are good candidate for automation

Verify Search result in google map

Verify look and feel of all the pages

THESE SCENARIOS are good candidate for manual testing

* Tech stack to use is depend on team decision, if developers all use Javascript, then QA shall too

1. Which HTTP methods are allowed against home page

* GET

load home page

search billboard

get adsite detail page

* POST

create lead (GET IN TOUCH)

create lead (NEED SOME ADVICE)

* PUT

no sign of it since user is not doing any edit operation

1. Prepare Docker image and the test with simple test <https://buythisspace.com.au/adsites/qld-townsville-garbutt-woolcock-street-6/>

* Please refer to the project. Need to mention that:

1. my company computer is MAC and home computer is Windows. Company MAC is unable to access docker hub, and my Windows machine is too old to be configured to run docker. The API testing is verified. The docker implementation cannot be fully verified in company MAC due to environment issue.

When testing internet API like <https://buythisspace.com.au/adsites/qld-townsville-garbutt-woolcock-street-6/> using docker on company MAC, it will fails due to network connection error (see below). However, I would not expect it to happen in non-company computers.

/microservice-test/node\_modules # yarn cucumber-prod

**yarn run v1.9.4**

$ NODE\_ENV=prod ./node\_modules/.bin/cucumber-js acceptance-tests/features/\*.feature --tags @regression -r acceptance-tests/steps

Environment Varaibles Of Node is : prod

Node Config Directory is : /microservice-test/acceptance-tests/steps/../config/

.URL is : https://buythisspace.com.au/adsites/qld-townsville-garbutt-woolcock-street-6/

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Failures:

1) Scenario: Check Successful HTTP GET Response from buythisspace.com.au # acceptance-tests/features/TestHttpGet.feature:10

   ✔ Before # acceptance-tests/steps/cuke.js:25

   ✖ When I do GET /adsites/qld-townsville-garbutt-woolcock-street-6/ service # acceptance-tests/steps/cuke.js:11

       Error: function timed out, ensure the promise resolves within 60000 milliseconds

           at Timeout.\_time.default.setTimeout [as \_onTimeout] (/microservice-test/node\_modules/cucumber/lib/user\_code\_runner.js:81:20)

           at ontimeout (timers.js:425:11)

           at tryOnTimeout (timers.js:289:5)

           at listOnTimeout (timers.js:252:5)

           at Timer.processTimers (timers.js:212:10)

   - Then I get a HTTP Status as 200 # acceptance-tests/steps/cuke.js:17

1 scenario (1 failed)

2 steps (1 failed, 1 skipped)

1m00.043s

error Command failed with exit code 1.

info Visit **https://yarnpkg.com/en/docs/cli/run** for documentation about this command

1. if running API test locally (not in Docker) in windows, please remove ‘NODE\_ENV=prod’ in node command. Instead run ‘SET NODE\_ENV=prod’ in CMD line to set environment variable
2. use ‘docker build -t mytag -f Dockerfile .’ to build docker image