

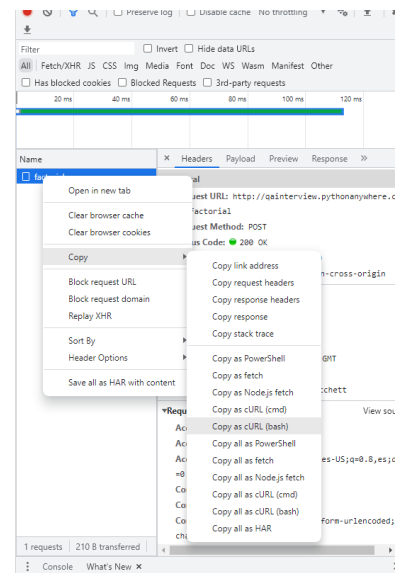
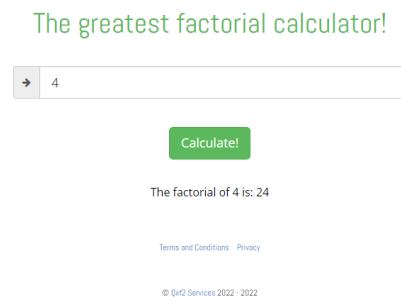
# Hostelworld QA exercise - Joaquin

1- For this part I have chosen Cypress for creating the front end and API tests. For front end tests I decided to check for;

- Title text.
- Links text
- Links to respective pages
- Calculate factorial button text
- Calculate factorial for a number (4 in this case)
- Negative text for entering a non integer.

2- I have tried to capture the API endpoint using POSTMAN and browser tools.

For this I calculated a factorial and search for the curl for the endpoint:



## Curl:

```
curl --location --request POST 'http://qainterview.pythonanywhere.com/factorial' \
--header 'Accept: */*' \
--header 'Accept-Language: en-US,en;q=0.9,es-US;q=0.8,es;q=0.7,pt;q=0.6' \
--header 'Connection: keep-alive' \
--header 'Content-Type: application/x-www-form-urlencoded; charset=UTF-8' \
--header 'Cookie: _ga=GA1.3.2065013136.1654259715; _gid=GA1.3.695617557.1654259715' \
--header 'Origin: http://qainterview.pythonanywhere.com/' \
--header 'Referer: http://qainterview.pythonanywhere.com/' \
--header 'User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/102.0.0.0 Safari/537.36' \
--header 'X-Requested-With: XMLHttpRequest' \
--data-raw 'number=4'
```

After getting the curl, I could play a bit with the POST request and test whatever input I needed:  
For body: number=4

My response was:

```
{  
  "answer": 24  
}
```

Then I had what I needed to develop an API test with Cypress, this way I could create 3 simple tests:

- Test for endpoint status.
- Test for factorial sending 4.
- Test for factorial sending 5.

## BUG REPORT

I found 2 bugs in the front end (below a screenshot of the automated tests results that expose them too).

BUG01: Terms and Conditions link is aiming to the wrong page.

Link expected: <http://qainterview.pythonanywhere.com/terms>

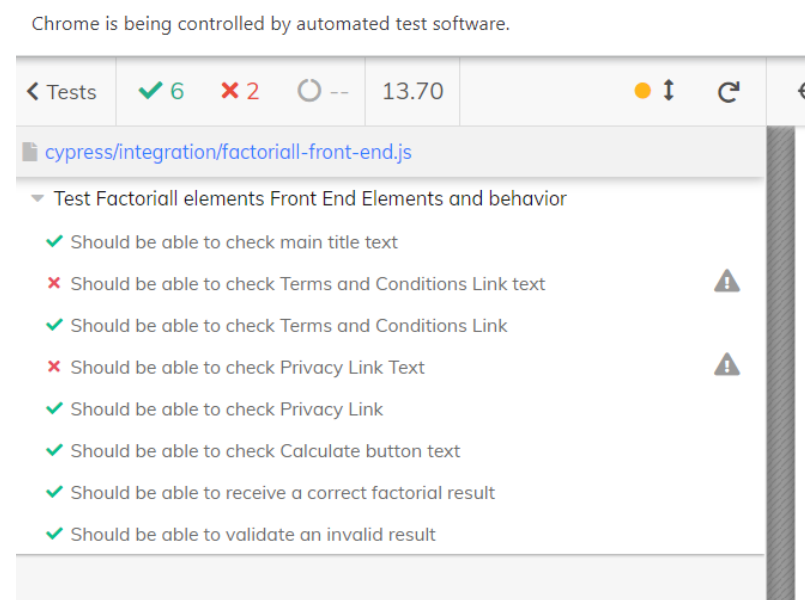
Actual link: <http://qainterview.pythonanywhere.com/privacy>

BUG02: Privacy link is aiming to the wrong page:

Link expected: <http://qainterview.pythonanywhere.com/privacy>

Actual link: <http://qainterview.pythonanywhere.com/terms>

Results from automated run for front end:



## Results for automated API tests:

Chrome is being controlled by automated test software.

The screenshot shows the Cypress test runner interface. At the top, there's a status bar with a back arrow, 'Tests', a green checkmark with '3', a red 'X' with '--', a grey circle with '--', a timer at '00.54', and icons for a yellow dot, a double arrow, and a refresh symbol. Below this is a breadcrumb path: 'cypress/integration/factorial-api.js'. The main section is titled 'Test Factorial API response' and contains three items, each with a green checkmark: 'Validate status code for API', 'Validate factorial API response for number 4', and 'Validate factorial API response for number 5'. The bottom of the image is a large, empty grey rectangular area.

## Cypress test runner interface

The screenshot shows the Cypress test runner application window. The title bar reads 'Cypress C:\Dropbox\My PC (LAPTOP-PIUGGQ8)\Desktop\cypress-exercise'. The menu bar includes 'File', 'Edit', 'View', 'Window', and 'Help'. The main header has 'cypress-exercise' on the left and 'Support', 'Docs', and 'Log In' on the right. Below the header is a navigation bar with 'Tests' (selected), 'Runs', and 'Settings'. On the right of this bar is a 'Chrome 102' dropdown. A search bar with the placeholder 'Press Ctrl + F to search...' and a '+ New Spec File' button are also present. The main content area is titled 'INTEGRATION TESTS' and lists two files: 'factorial-api.js' and 'factorial-front-end.js'. A link 'Run 2 integration specs' is visible on the right.

Cypress version used: 9.2.1