

**HOW TO GET YOUR PRODUCT OWNERS TO
WRITE YOUR FUNCTIONAL TESTS**

AKA

USING GIVEN / WHEN / THEN WITH CYPRESS



WHO ARE YOU?

CALLUM SILCOCK

FRONTEND PLATFORM ENGINEER @ ATTEST (CONTRACT)

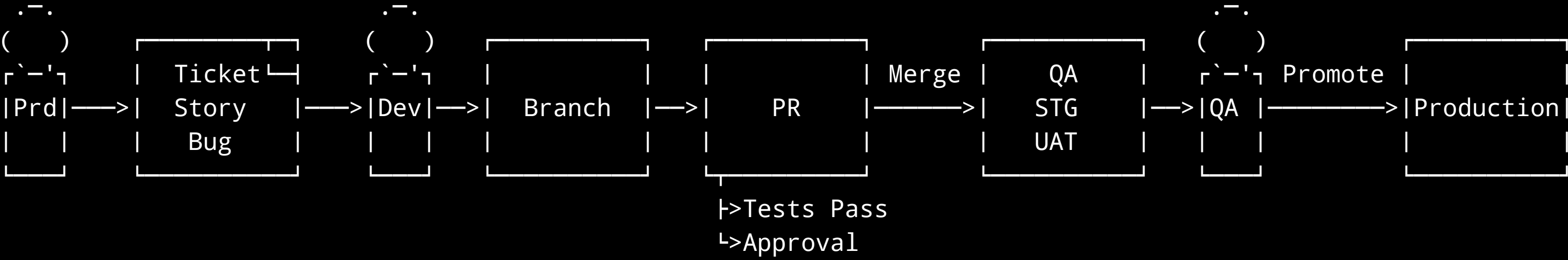
[HTTPS://CSI.LK](https://csi.lk) || [GITHUB.COM/CSI-LK](https://github.com/csi-lk)



"dartah" = data

"rehpo" = repo

WHAT ARE WE TRYING TO SOLVE?



```
describe('logging in', () => {  
  it('logs in, () => {  
    cy.visit('http://localhost:3000/login');  
    cy.get('email').type('contact@csi.lk');  
    cy.get('password').type('hunter2');  
    cy.get('input[type="button"]').click();  
    cy.url().should('be', 'http://localhost:3000/dashboard');  
  });  
});
```

Feature: Testing

Ewww regression

Scenario: Lack of automation

Given I am a Frontend Developer

When I am forced to manually test

Then kill me

Feature: Logging In

Tests the user can successfully login and log out

Scenario: Logging In Successfully

Given I am on the "login" page

When I input my "email" as "contact@csi.lk"

And I input my "password" as "hunter2"

And I click the "login" button

Then I should be on the "dashboard" page


```
# Given I am on the "login" page
```

```
import { Given } from "cypress-cucumber-preprocessor/steps"
```

```
Given(`I am on the {string} page`, target => {  
  cy.visit(`https://localhost:3000/${target.toLowerCase()}`)  
})
```

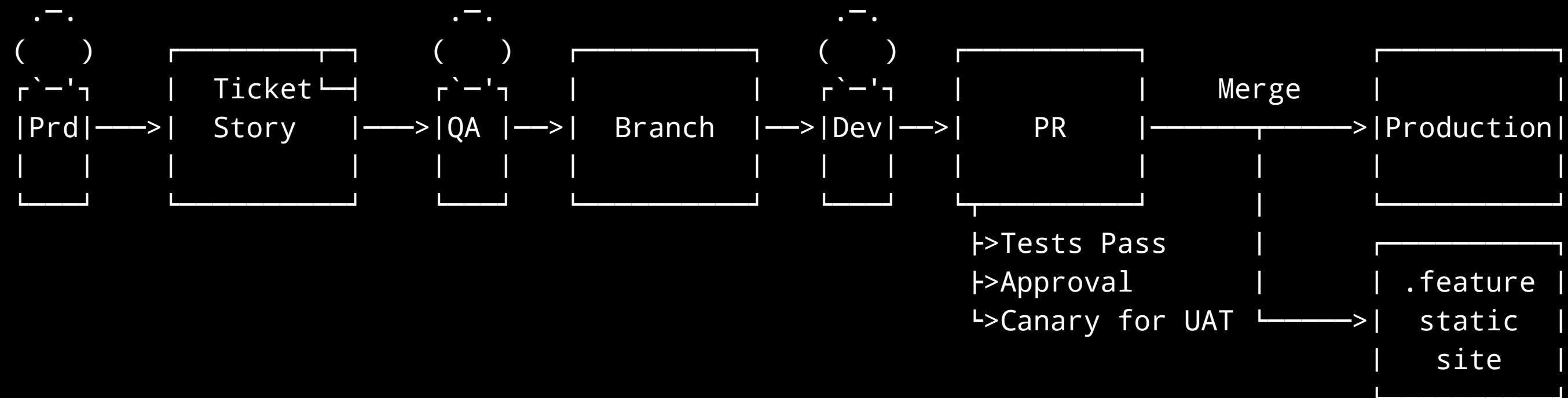
```
<input
  type="email"
  name="email"
  placeholder="Email"
  data-qa="input-email"
/>
<input
  type="password"
  name="password"
  placeholder="Password"
  data-qa="input-password"
/>
<button
  data-qa="button-login"
  onClick={() => {
    setAuthentication(true)
    history.push("/dashboard")
  }}
>
  Log In
</button>
```

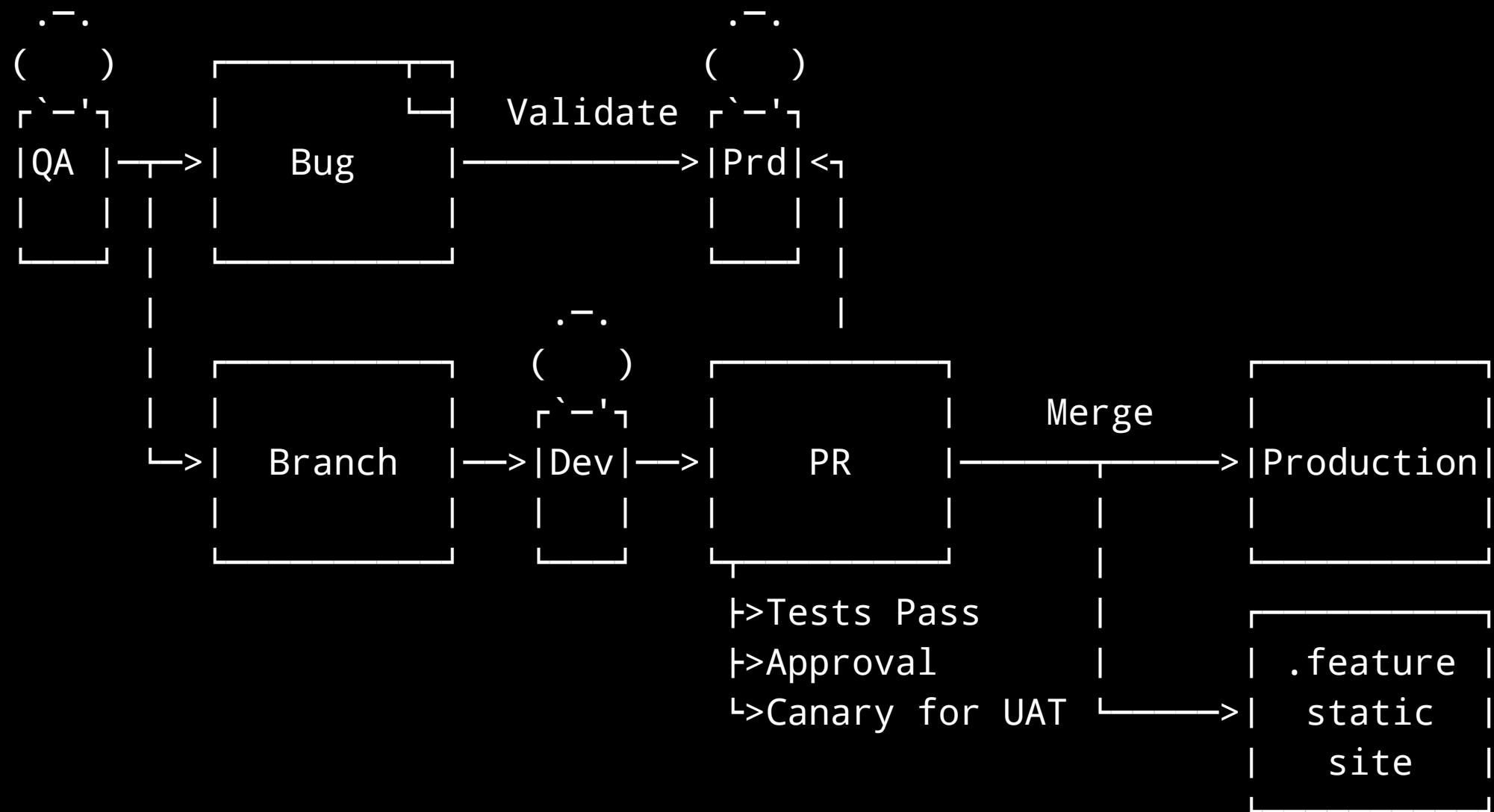
```
// Then the "navigation logout" button should "not" "exist"
```

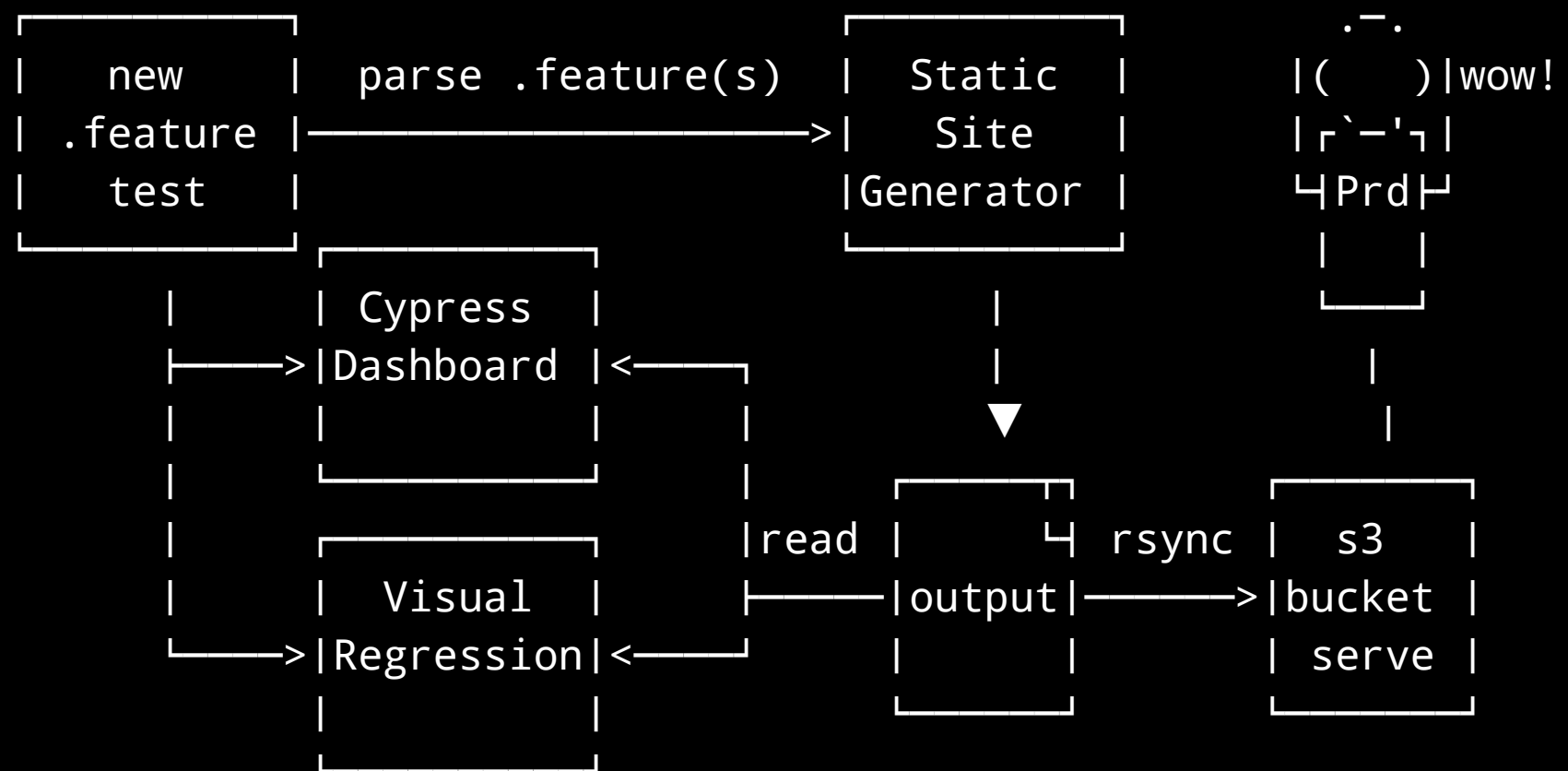
```
Then(`the {string} button should {string} {string}`, (id, assert, assertion) =>  
  cy.get(`[data-qa="{type}-${id.replace(" ", "-").toLowerCase()}"]`).should(assert, assertion)  
  //cy.get([data-qa="button-navigation-logout"]).should("not", "exist")  
)
```

```
// Reuse!
```

```
// Then the "login" button should "be" "disabled"
```







CONS

- ▶ **Abstracting tests from code**
 - ▶ **Lack of IDE tooling**
- ▶ **Lots of tests make for slow builds**
 - ▶ **BDD Is hard**

PROS

- ▶ **Product owners write the tests and see the whole pipeline**
 - ▶ **QA moves to the front of the pipeline**
 - ▶ **Devs have less tests to write**
 - ▶ **Less risk with deployments**

LIVE TECH DEMO



THANKS

[GITHUB.COM/CSI-LK/CYPRESS-GWT-EXAMPLE](https://github.com/csi-lk/cypress-gwt-example)



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