

# Migration off Selenium

From Selenium to Playwright and the move towards the testing pyramid.

## **Starting point**

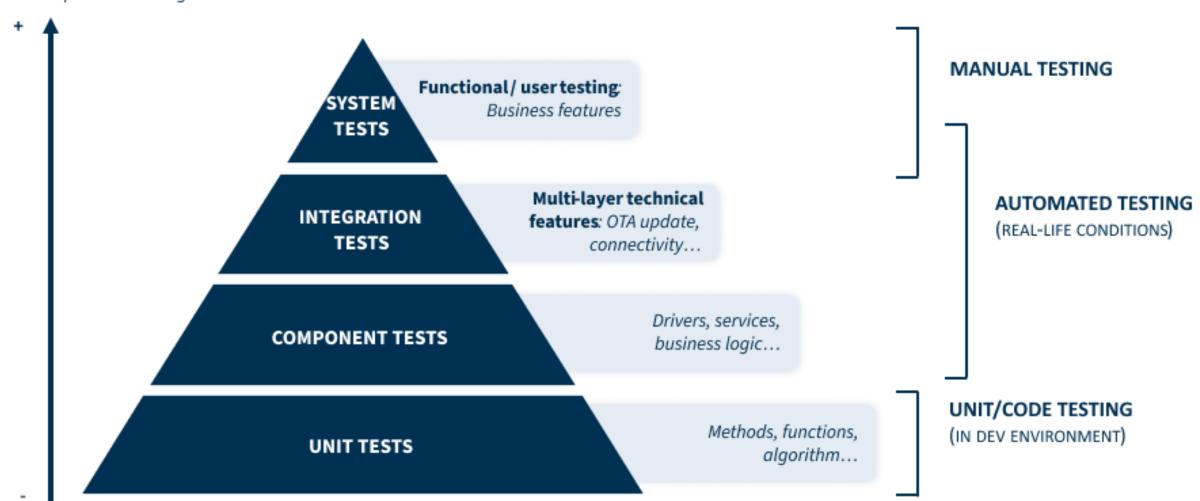
- 300 end to end tests
- 1 mock tests or component tests
- Low coverage of unit tests
- 2 days to do release regression testing
- Not a stable test set, so there was a lot of rerunning tests that were failing.
- Selenium based framework and infrastructure that required a lot of maintenance



## **Goal – dream state**

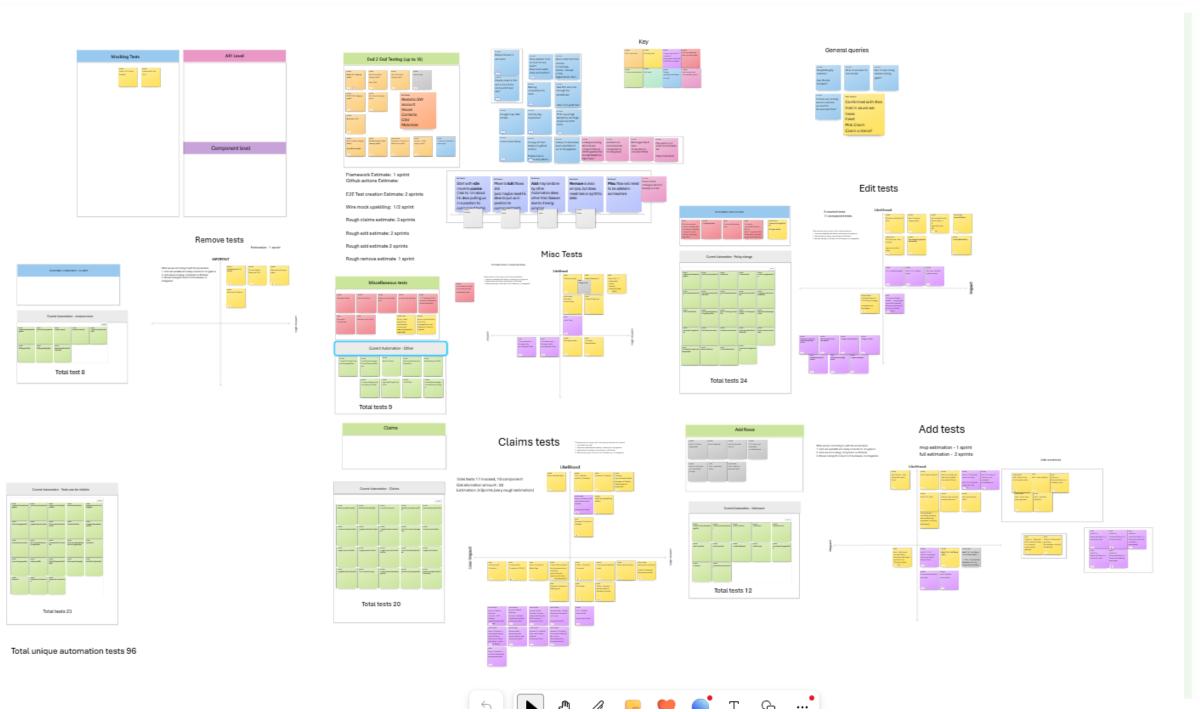
- 10 or less end to end tests
- Majority mock(wiremock) and component(storybook) tests
- 80% coverage in unit tests
- Under an hour to do release testing
- Stable test set, so that any failures are a true reflection of a failing test
- Playwright based framework that is easy to maintain and is adaptable

Duration between development & testing



## What we did

- We split our application into 6 relevant sections (flows). End to End, Add, Edit, Claims, Remove, and Misc
- We then did a risk assessment on the current tests that we had.
  We mapped them out to what level we wanted them to be tested at.
- Then we thought of any tests that we would like to have and added them into the table diagram



#### How we did it

- Created the end to end tests first to ensure happy path coverage
- Created the stories for the mock/component tests in Jira and did estimations based on the first story that was completed.
- Built a plan on how to create the mock/component tests.
- Passed along to our test automation engineers to work on it.

## **Current State**

- 13 end to end tests
- 100 mock and component tests
- 47% Unit test coverage
- Release testing takes 16 minutes to run
- Stable test set
- Playwright based framework that is easy to maintain and is adaptable