

Quality Assurance/Testing Protocol

Approach

Testing comes at different levels of abstraction, from acceptance testing, which is high level and relates to the overall system requirements, to unit testing, which is at the level of testing the code for individual functions. We propose a middle-ground, testing at the level of trello cards, where tests are made with reference to the stated functionality provided on the card. As most cards are descriptive of the required changes, tests will generally be written with qualitative criteria and as such should be conducted manually, rather than in an automated fashion.

Tests can pass, pass with recommended amendments, or fail. Testing should be done on the development branch only, once feature branches have been integrated via pull request.

Who

Testing will primarily be done by the quality assurance lead, bringing in other members of development when required.

Documentation

Test results will be documented in a separate file, with the following columns:

- 'id',
- 'Card name',
- 'Description',
- 'Test preconditions',
- 'Test procedure',
- 'Expected outcome',
- 'Actual outcome',
- 'Result' (pass, pass with recommendations, fail),
- 'Recommendations' (if not pass).

The test cases and results can be found at the following link: https://docs.google.com/spreadsheets/d/13TyO87hRWcVN361tkdbUiVc7honO7vDRifiahjr_3x0/edit?usp=sharing

Failure Protocol

If the test results in 'pass with recommendations' or 'fail', a new trello card will be added to the product backlog with the details describing the issues, and the product owner will be notified.

Regression testing

At **minimum**:

Test in each of the major browsers

- Chrome
- Firefox
- Edge
- Safari

To ensure that behaviour has not unexpectedly changed. Safari in particular can be a bit weird, and is a major browser (the only rendering engine) for iOS.