

# Test Plan

## System under test

<https://ensekautomationcandidatetest.azurewebsites.net/>

## Test objectives

To perform comprehensive testing of the website, including all its features, functions, and user interactions, in order to validate its functionality, usability and to ensure it meets the expectations of its intended users.

### Functionality To be tested

- Buy energy
- Sell energy
- Register
- Login
- Static Pages - About, Contact, Home

### Platform(s) tested on

- Windows/Chrome

## Test approach

In the absence of any requirements or acceptance criteria, an exploratory test charter will be run across the application. If needed, further charters will be created to explore and test a piece of functionality in more depth; after this is done, areas and features will be determined that are suitable for regression, and test cases will be created. Following this, automated tests will be created at the appropriate level.

## Test Evidence

### Issue log

Any issues found throughout testing will be stored in the issue log document with clear steps to reproduce and a severity rating to help with prioritisation; this is subject to triage with the relevant stakeholders. A key of severity can be found here:

**P1 - Critical** - Issue is blocking a core functionality that will impact the user and block them from completing core user flows; an example of this may be an application crashing on a key page or a key security issue

**P2 - Major** - Issue is highly likely to impact the user; workarounds may be available but would still be something that would not be able to be in a release version, an example of this could be broken business logic or slow page load times

**P3 - Minor** - small impact bugs, may be high impact on low-use parts of the application; an example of this may be UI elements differing from designs or unexpecting handling of improper data e.g extremely long names not wrapping correctly

**P4 - Trivial** - Issues that are likely to have little to no impact on the end user/ or business; this could be issued on unsupported devices or very small UI issues e.g

## Regression test cases

Regression test cases will be stored in a separate document; it will document the steps to perform and the expected results written in Gerkin syntax; these will cover the core parts of the functionality that will need to be checked for each release going forward.

Where applicable, these test cases will be automated using Cypress. This will be marked in the test case documented

## Assumptions

- The test environment has performance parity of a live environment
- Data used for testing buying energy is in the same format and of similar values to that used in a live environment
- There are no 3rd part integrations that need testing e.g SSO, real-time energy prices
- Any areas that are under maintenance are to be expected and will not be considered an issue

## Risks

- Test data proved will not match with that on a real system e.g reset functionality nor provided. There is a risk that the application may hand data extremes such as large quantities or costs differently.
- Undefined requirements could lead to inaccurate assumptions about the functionality of the application.