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# Introduction

## General information

This document describes the methods and procedures that will be used by the test team in the functional testing process of the web application provided by ENSEK for the purpose of the candidate testing test.

The test plan describes the procedures of the testing process. The plan is intended for Project Managers, Developers and testers.

The objectives of the testing activities to check functions and features of the product developed for web browsers (Chrome, Safari, Edge etc)

## Purpose

This test plan document for ENSEK Candidate testing supports the following objectives

* Identify existing project information and software components to be tested.
* Recommendations and descriptions of the testing strategies.
* Identify required resource and provide a test effort estimate.
* List of test deliverables.

The results of the test execution will be sent to the customer as a report. All bugs found will be tracked using Azure Dev ops.

# Team Members

|  |  |
| --- | --- |
| **Team members Names** | **Role** |
| Chris Keeber | Candidate for Team Lead at ENSEK |

# Scope of Testing Task

Scope of testing the web application provided will include the following components and functions:

* Login and password recovery
* Login of an existing user
* Registration of a new user
* Buy and sell Energy using platform
* Viewing about us information

# Plan for testing

## Functional and non-functional testing

The objective of the functional testing is to make sure that the whole software application work in accordance with the requirements. And no significant errors are appearing in the application.

The objective of the Non-Functional testing is to ensure that the product can behaves as expected uncertain conditions that are not directly related to the functionality of the application.

## Test Procedure

The test procedure assumes that the following will be acted on:

* Reporting of software bugs

The main testing types that will be executed:

* Functional Testing
* UI Testing
* Compatibility Testing
* Regression Testing

Performance of the application will also be tested in a limited way. This will include how long the application takes to load on browsers and devices supported by the company.

Areas that are not to be covered by this testing and will not be applied:

* Security Testing > Excluding logging in and out of application.
* Performance testing > Excluding what has already been mentioned above.

## Bugs

All bug raised during the testing process will have the following categories assigned to them:

* Critical > Blocker needs to be fixed ASAP as this is blocking the test team from completing the testing task.
* Major Defect > are those which also cause failure of the entire or part of the system, but there are some processing alternatives which allow further operation of the application.
* Minor Defects > Do no result in test failure but cause the application to show incorrect, incomplete results.
* Trivial Defect > Defects are small and can be fixed later.

Bug reports are to be sent in the normal process using azure dev ops and must contain as many details as possible to allow other members of the wider team to complete their tasks.

# Testing Resources

## Tools

|  |  |
| --- | --- |
| **Name of process** | **Tool** |
| Defect tracking | Azure Dev ops |
| Test cases | Azure Dev ops |
| Screenshots and video capture | Built in computer tools |

## Browsers

|  |  |
| --- | --- |
| **Browser name** | **Version** |
| Chrome | Latest |
| Safari | Latest |
| Edge | Latest |

# Quality Criteria

The application should operate in accordance with the requirements and functional specifications set out by the product team.

The application should not contain any critical and blocking defects in the final version of the release candidate.

# Testing Risks

The following may influence testing:

* Changes and modifications of the application that are deemed out of scope for the feature.
* Changes to requirements that have not been documents or communicated
* Delays in fixing defects found
* Delay in builds of the application.

# Expectations

Members of the test team to always be in full communication with the wider sprint team. Testers to take a fail fast approach to assist the development team in fixing defects as soon as possible to stop delay of the application release.