[Email address]

Jack Gallaher

QA Test plan

Ensek Energy Corp Test plan

1 Testing Scope

The scope of this project is test the main functions that exist and verify if they are ready to use be real clients. The application we are testing is called ENSEK Energy Corp. This application is used to buy and sell Energy types such as Gas, Oil and Electricity.

What are we testing?

The features we need to test are login & register for users, buy energy and sell energy. We also need to test the about and contact pages. We will also need to run tests to check the nonfunctional aspects such as performance. We will test the systems speed, security, reliability.

What are we not testing?

We will not be testing the Sell Energy section of the application because it is currently undergoing maintenance. Users will be unable to access this until its Ready.

Test Scenarios -

Login as a registered user

Sign up as a new user

Buy Energy type Oil

Buy Energy type Gas

Buy Energy type Electricity

Verify you cant buy Energy type Nuclear

Validate the contact page

Validate the about us page

2. Roles and responsibilities

QA Analyst – Writes the test cases and performs the manual tests

Test Manager - Responsible for overseeing the software testing. The management process involves establishing goals, communicating them to team members, and assessing their progress toward them

Developers – Developing the features, running code reviews, Unit testing their code and running smoke tests before delivering to QA

Installation Team – Responsible for setting up the environments for production.

Project manager - Responsible for overseeing the whole project. Looking at creating a Strategy and roadmap for the product, working with cross-functional teams to define and execute its success. A product manager is responsible for the overall business strategy for the product. They might also help decide what type of products should be developed.

3. Test Methodology

We will be working with the Agile methodology. The agile methodology is a project management approach which involves breaking the project into phases. This includes continuous collaboration and improvement. Considerably the most significant advantage of agile methodology is how adaptable it is to changing development environments, requirements and even developing teams.

4. Test Completeness

Criteria for Test Completeness would be

* 100% test coverage across the scripts written
* All Manual & Automated Test cases executed
* 85% of Automated tests must pass
* All open bugs are fixed or will be fixed in next release depending on severity. Low issues or Medium issues could be fixed at a later stage.

5. Test Levels to carried out

Unit testing will be done by the developers to test their own code

Integration testing will be done QA to test the integration of components on the front end. I.e. Page connecting to other pages

System testing will be done by QA to test end to end test cases.

Acceptance testing will be done by the Business users in order to verify if it meets their requirements

6. Test deliverables

Here mention all the Test Artifacts that will be delivered during different phases of the testing lifecycle.

Here are the simple deliverables

Test Plan

Test Cases

Requirement Traceability Matrix

Bug Reports

Test Strategy

Test Metrics

Customer Sign Off

7. Resource & Environment Needs

Testing Tools

Azure Devops for test management purposes

Selenium Webdriver for UI automation tests

C#

Required to test the project

Test Environment

It mentions the minimum **hardware** requirements that will be used to test the Application.

Following **software’s** are required in addition to client-specific software.

* Windows 10 and above