ENSEK Automation Candidate Test – Detailed Test Plan

|  |  |
| --- | --- |
| Document Information | |
| Project Name | ENSEK Candidate Test Application |
| Project Number | 1.0 |
| Project Account Code | ENSEKCANTEST |
| Author | Ashwani Verma |
| Issue Date | 09/05/2025 |

|  |  |  |  |
| --- | --- | --- | --- |
| Document History | | | |
| Version | Date | Summary of change | Author |
| 1.0 | 09/05/2025 | Release version | Ashwani Verma |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| Approvals | | | |
| Name | Title | Signature | Escalation |
|  |  |  |  |

Contents

[1. Introduction 2](#_Toc197810551)

[2. Objectives 2](#_Toc197810552)

[3. Application Overview 2](#_Toc197810553)

[4. Scope 2](#_Toc197810554)

[5. Test Strategy 3](#_Toc197810555)

[6. Test Types 3](#_Toc197810556)

[7. Test Environment 3](#_Toc197810557)

[8. Entry & Exit Criteria 3](#_Toc197810558)

[9. Test Deliverables 3](#_Toc197810559)

[10. Risks and Mitigation 4](#_Toc197810560)

[11. Test Schedule 4](#_Toc197810561)

[12. Functional Test case 4](#_Toc197810562)

[13. Resources 5](#_Toc197810563)

# 1. Introduction

This Test Plan outlines the strategy and scope for testing the ENSEK candidate test system. The application allows users to log in and perform energy trading transactions. The goal is to validate all functionalities, UI responsiveness, usability, and application reliability using a structured test process.

# 2. Objectives

* Ensure use is able to login on UI Application
* Validate user can buy/sell the energy
* Confirm system stability under user interactions
* Identify and report UI, functional, and compatibility issues
* Verify link routing and content display consistency across pages

# 3. Application Overview

* User Registration and login pages
* Dashboard listing current meter readings
* 'Buy Energy' and 'Sell Energy' modules
* Navigation elements: Home, About, Contact

# 4. Scope

**In Scope:**

* Login functionality
* Navigation between pages
* Energy purchase and sell processes
* Error and validation messages
* UI layout and responsiveness

**Out of Scope:**

* Backend integration or database persistence
* External API calls or integrations

# 5. Test Strategy

* Manual Testing using a black-box approach
* Functional Testing for each user action
* UI Testing for consistency, responsiveness, and layout
* Exploratory Testing to uncover edge cases and usability flaws
* Cross-Browser Testing on Chrome, Firefox, Safari, and Edge

# 6. Test Types

* Functional Testing
* UI Testing
* Compatibility Testing

# 7. Test Environment

|  |  |
| --- | --- |
| URL | https://ensekautomationcandidatetest.azurewebsites.net/ |
| Browsers | Chrome, Firefox, Edge, Safari |
| Devices | Desktop (Windows, macOS), Mobile (iOS, Android) |

# 8. Entry & Exit Criteria

**Entry Criteria:**

* Application is accessible via public URL
* Functional specification is observed from UI
* Test cases are created and reviewed

**Exit Criteria:**

* All functional test cases executed
* All critical bugs resolved or documented
* Test summary prepared and reviewed

# 9. Test Deliverables

* Test Plan
* Test Case Suite
* Bug/Defect Report
* Test Summary Report

# 10. Risks and Mitigation

N/A

# 11. Test Schedule

|  |  |
| --- | --- |
| Activity | Timeframe |
| Test Planning | NA |
| Test Case Design | NA |
| Test Execution | NA |
| Defect Retesting | NA |
| Reporting & Sign-off | NA |

# 12. Functional Test case

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case Description** | **Steps** | **Expected Result** | **Priority** |
| TC\_FT\_01 | |  | | --- | |  |  |  | | --- | | User Registration | | Navigate to the 'Register' page → Fill in all required fields with valid data → Submit the form | User account is created successfully; confirmation message is displayed | High |
| TC\_FT\_02 | User Login | Navigate to the 'Log in' page → Enter valid credentials → Submit the form | User is logged in and redirected to the dashboard or homepage | High |
| TC\_FT\_03 | Buy Energy Flow | Log in → Click on 'Buy energy' → Select energy type and quantity → Confirm purchase | Energy purchase is processed; confirmation message is displayed | High |
| TC\_FT\_04 | Sell Energy Flow | Log in → Click on 'Sell energy' → Enter energy details → Submit the form | Energy sale is processed; confirmation message is displayed | High |
| TC\_FT\_05 | Navigation to 'About' Page | Click on the 'About' link in the navigation menu | 'About' page is displayed with relevant company information | Medium |
| TC\_FT\_06 | Navigation to 'Contact' Page | Click on the 'Contact' link in the navigation menu | 'Contact' page is displayed with contact details or a contact form | Medium |

# 13. Resources

* 1 QA Tester (Manual)
* Laptop or Desktop with multi-browser setup
* Test documentation tools (Word, Excel)