Currency Converter

1.Test Objective:

The test objectives are to **verify** the Functionality of converter, the project should focus on testing the converting currency to Dollars, Pounds, Euros, Kuwaiti dinar.

2. Scope of Testing:

1. Within The Scope

All the feature of CURRENCY CONVERTER which were defined in software requirements are need to be tested.

|  |
| --- |
| CONVERTING TO RUPEE |
| CONVERTING TO DOLLARS |
| CONVERTING TO POUNDS |
| CONVERTING TO EUROS |
| CONVERTING TO KUWAITI DINAR |

1. Out of Scope:

These feature are not being tested because they are not included in the software requirements

* User Interfaces
* Hardware Interfaces
* Software Interfaces
* Database logical
* Communications Interfaces
* Website Security and Performance

3. Test Strategy

Types of Testing:

* Functional
* Non-functional
* According to the requirements
* Positive
* Negative
* By degree of preparedness – intuitive testing (ad hoc)

1. Levels of Testing:

In the project CURRENCY CONVERTER, there’re 3 types of testing should be conducted.

* **Integration** **Testing** (Individual software modules are combined and tested as a group)
* **System** **Testing:** Conducted on a **complete**,**integrated** system to evaluate the system’s compliance with its specified requirements.
* **API testing:**Test all the APIs create for the software under tested.

1. Test Design Tech**:**

The test report was compiled and approved by team leader.

1. Configuration Management Tool:

GitHub

1. Terminology:

Currency Converter

1. Area Planned for Automation**:**

Converting currency to Dollars, Pounds, Euros, Kuwaiti dinar.

1. List of Automation Tools:

No Required

4. Exit and Entry Criteria:

Exit: Approved requirements by the stake holders and team leaders.

Entry: Started the test planning.

5. Test Deliverables

Test deliverables are provided as below

**Before testing phase**

* Test plans document.
* Test cases documents
* Test Design specifications.

**During the testing**

– Test Tool Simulators.

– Test Data

– Test Trace-ability Matrix

– Error logs and execution logs.

**After the testing cycles is over**

* Test Results/reports
* Defect Report
* Installation/ Test procedures guidelines
* Release notes

6) Roles and Responsibilities

The project should use **outsource** members as the tester to save the project cost.

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Member** |  | **Tasks** |
| **1.** | Test Manager |  | Manage the whole project Define project directions Acquire appropriate resources |
| **2.** | Test |  | Identifying and describing appropriate test techniques/tools/automation architecture Verify and assess the Test Approach Execute the tests, Log results, Report the defects. Outsourced members |
| **3.** | Developer in Test |  | Implement the test cases, test program, test suite etc. |
| **4.** | Test Administrator |  | Builds up and ensures test environment and assets are managed and maintained Support Tester to use the test environment for test execution |
| **5.** | SQA members |  | Take in charge of quality assurance Check to confirm whether the testing process is meeting specified requirement |

7. Risks and Mitigation

A) Risk and Contingency:

Insufficient human resources for testing the application in deadlines.

B) Risk and Mitigation:

Changing the requirements for the project.

8) Schedule:

|  |  |  |
| --- | --- | --- |
| **Task** | **Members** | **Estimate effort** |
| **Create the test specification** | Test Designer | 170 man-hour |
| **Perform Test Execution** | Tester, Test Administrator | 80 man-hour |
| **Test Report** | Tester | 10 man-hour |
| **Test Delivery** |  | 20 man-hour |
| **Total** |  | 280 man-hour |

9)Hiring and Training

To perform the tasks, you need to have the following knowledge and skills:

Then the persons will eligible to this field of testing.

Knowledge and practical application of the IEEE-829 standard;

Knowledge and ability to apply in practice the basic techniques of test design

Knowledge of various types of testing including functional and non-functional.

10) Test Environment

It should support in the Windows Laptop, browser, google. (software support)

11) Assumption

If there is any addition of new feature to the application, then there will a getting an error or bug.

12) Approval Information

**1. Test Manager**

**2. Test Developer**

**3. Test Administrator**

13) Test Metrics: **All types of metrics should be measured.**