## Test Plan for Calculator Project

## Introduction

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project.

The plan determines the items to be tested, the features to be tested, the types of testing to be performed, the resources and schedule required to complete testing, and the risks associated with the plan.

## 1.1) Scope

## 1.1.1) In Scope

In this project we must cover functional scenarios to verify the feature. We should test the feature from UI and API side.

## 1.1.2) Out of Scope

In this phase, we are not planning to cover security and performance testing.

## 1.2) Roles and Responsibilities

To provide all the required artefacts required to test this application.

Like Test Cases, Defect Report, Automation tools details, Documentation of steps to perform the automation.

We must do both manual and automation testing to cover the functional aspect of the application.

Regular touch base with stake holders on the progress and if there are any impediments or queries, then get that clarified with them.

## 2) Test Methodology

## 2.1) Overview

We will be using the Agile methodology to deliver this project where we will plan the high value first in terms of features as priority. This methodology will help us to execute the testing phase iteratively and incrementally.

### **2.2) Test Levels**

In this project, we should conduct three types of testing which will help us to determine the system's compliance with its specified requirements

Types of testing are Integration testing, System testing and API testing

### **2.3) Suspension Criteria and Resumption Requirements**

Testing will be performed only on stable build provided on the specific environments. If the build is unstable where smoke tests are failing, then we should suspend the testing activity and report it to higher management about the same.

### **2.5) Test Completeness**

* More than 80% test coverage
* All Manual & Automated Test cases executed
* All open bugs which are critical and high are fixed and retested
* All testing reports, release notes should be ready as part of deliverables

**3) Test Deliverables**

As a part of test deliverables, we should be able to present all the artefacts used during different phases of the testing lifecycle.

* Test Plan
* Test Cases
* Requirement Traceability Matrix
* Bug Reports
* Test Strategy
* Test Metrics
* Customer Sign Off

## 4) Resource & Environment Needs

### **4.1) Testing Tools**

List of tools which we will be using to execute the Test phase of this project:

* Requirements Tracking Tools: Excel sheet
* Bug Tracking Tools: Excel sheet
* Automation Tools: Selenium webdriver, C#, Postman
* Different Browser: Firefox, Chrome, Safari
* Different OS: Windows, Linux, macOS

### **4.2) Test Environment**

In order to follow the continuous integration and delivery pipeline, we need three environments

QA: This environment can be of low configuration and with test or canned data.

Stage: This environment should be close copy of Prod in terms of configuration and data

Prod: Where we will be hosting the application where our users can access the application.