# TEST PLAN:
# CALCULATOR APPLICATION

Group 02

Version 1.2

**ID: G02-TP01**

# Revision History

| Date | Version | Description | Author |
|---|---|---|---|
| 19.11.2022 | 1.1 | Created. Ready for view and edit. | Olena Pushynska |
| 21.11.2022 | 1.2 | Design was changed. Chapters 1 - 6 have been supplemented and corrected | Andrii Cherniavskyi |
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# Table of Contents

# 1. Introduction

The Test Plan has been created to communicate the test approach to team members. It includes the objectives, scope, schedule, risks and approach. This document will clearly identify what the test deliverables will be and what is deemed in and out of scope.

This Test Plan is intended for Alfa testing only.

## 1.1 Objectives

This document is a Test Plan Project Calculator Application. Tests based on Requirements: Calculator Application version: 4.0 dated 08.02.2010.

## 1.2 Background

Calculator Application is designed to perform standard calculation operations. Calculator runs in the Windows environment and performs basic arithmetic: addition and subtraction, division and multiplication in the decimal system.

The calculator is used in various applications, such as; construction, logistics, banking services, in furniture production, cosmetics, education, etc.

## 1.3 Team Members

| Manual QA Members | Responsibilities |
|---|---|
| Veronika Artemchuk | 1. Test Cases developing for Requirements GRAPHICAL USER INTERFACE DESIGN, Items: GUI-10, GUI-20, GUI-30, GUI-40, GUI-45, GUI-50.<br>2. Test Cases executing: GUI-70, GUI-80, GUI-90, GUI-100, GUI-110, GUI-120.<br>3. Checklist and bug reports are developed. |
| Olena Pushynska | 1. Test Plan developing.<br>2. Test Cases developing for Requirements GRAPHICAL USER INTERFACE DESIGN, Items: GUI-60, GUI-70, GUI-80, GUI-90, GUI-100, GUI-110, GUI-120<br>3. Test Cases executing: GUI-130, GUI-140.<br>4. Checklist and bug reports are developed.<br>5. Test Report developing. |
| Oleksandr Matiukhin | 1. Test Cases developing for Requirements GRAPHICAL USER INTERFACE DESIGN, Items: GUI-130, GUI-140, GUI-150, GUI-160.<br>Test Cases developing for FUNCTIONALITY, Items: F-10, F-15.<br>2. Test Cases executing: GUI-60, F-20, F-30, F-40, F-50, F-60, F-70, F-110, F-120, F-130, H-10, H-20.<br>3. Checklist and bug reports are developed. |

| Manual QA Members | Responsibilities |
|---|---|
| Igor Kamluk | 1. Test Cases developing for Requirements FUNCTIONALITY, Items: F-20, F-30, F-40, F-50, F-60, F-70.<br>Test Cases developing for Requirements HARDWARE AND SOFTWARE, Items: H-10, H-20.<br>2. Test Cases executing: GUI-150, GUI-160, F-10.<br>3. Checklist and bug reports are developed. |
| Andrii Cherniavskyi | 1. Test Plan developing.<br>2. Test Cases develop for Requirements FUNCTIONALITY, Items: F-80, F-90, F-100, F-110, F-120, F-130.<br>3. Test Cases executing: GUI-10, GUI-20, GUI-30, GUI-40, GUI-45, GUI-50, F-15, U-10, U-20, D-10, D-20, P-10, P-20, P-30, P-40.<br>4. Checklist and bug reports are developed.<br>5. Test Report developing. |
| Bohdan Panchenko | 1. Test Cases developing for Requirements USABILITY, Items: U-10, U-20.<br>Test Cases developing for Requirements HELP/ONLINE DOCUMENTATION, Items: D-10, D-20.<br>Test Cases developing for Requirements PERFORMANCE, Items: P-10, P-20, P-30, P-40.<br>2. Test Cases executing: F-80, F-90, F-100.<br>3. Checklist and bug reports are developed. |

# 2. Scope

Components and Functions to be Tested:

- graphical user interface design;
- functionality;
- usability;
- help/online documentation;
- performance;
- hardware and software.

Futures that not to be tested:

- localizations;
- system integrations;
- portability;
- maintainability;
- recoverability;
- performance testing;
- security testing.

# 3. Risks

In order to pass the tests on time, several conditions must be met:

- each team members will be work without any rejections;
- the application for testing is submitted until November 26;
- bugs should be fixed by December 3.

# 4. Test Approaches

Testing will be carried out by manual the following kinds and types of tests:

- method Black Box;
- functional testing;
- positive testing;
- negative testing;
- usability testing;
- regression testing.

To select test data, we plan to use the method of equivalent classes and boundary values.

In the process of creating Test Cases, we will work as a team using shared Google Documents.

Test Cases ID is set gradually. To base ‘G02-TS01’ add ‘-number testing requirements’ and ‘-number in order’. For example G02-TS01-F-80-03, G02-TS01-GUI-20-02 and so on.

# 5. Test Environment

Calculator Application runs in the Windows environment. Each participant conducts testing in his own environment that meets the following requirements.

Minimal requirements for Calculator application:
CPU: Intel Celeron 700 MHz
OS: Windows 98
RAM: 32 Mb
HDD: 2 Mb free space

Recommended configuration:
CPU: Intel Celeron 2 GHz
OS: Windows 2000, SP1
RAM: 128 Mb
HDD: 10 Mb free space

# 6. Milestones / Deliverables

## 6.1 Test Schedule

| Task Name | Start | Finish | Comments |
|---|---|---|---|
| Requirements analysis | 19.11.2022 | 22.11.2022 | |
| Create Test Plan | 19.11.2022 | 22.11.2022 | |
| Create first 5 Test Cases | 19.11.2022 | 22.11.2022 | |
| Create rest Test Cases | 22.11.2022 | 26.11.2022 | |

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|---|---|---|---|
| Testing application (Check List, Bug Reports) | 26.11.2022 | 03.12.2022 | |
| Bugs fix | 03.12.2022 | 03.12.2022 | |
| Regression testing | 03.12.2022 | 10.12.2022 | |
| Create Test Report | 10.12.2022 | 13.12.2022 | |

## 6.2 Deliverables

We provide detailed test reports of found and fixed defects with priorities.

We also provide detailed checklists that indicate which functionality, how and on which environments was tested.

| # | Deliverable | For | Date |
|---|---|---|---|
| 1 | Test Plan | Test Team | 22.11.2022 |
| 2 | Test Cases | Test Team | 26.11.2022 |
| 3 | Bug Reports | Developers | 03.12.2022 |
| 4 | Checklists | Test Team | 10.12.2022 |
| 5 | Test Report | QA Lead, PM | 13.12.2022 |

## 6.3 Exit Criteria

During the testing of the item, there are no defects left in the ‘Not Fixed’ state with the priority of Blocker, Major, Critical and Medium.

There are no more than 2 defects of Minor and Trivial priority in an unfixed state.

# 7. Approvals