## Горизонтальная линия

Test Plan

The Calculator Application 1.0

Created by Kravets Alina

15/11/2021

# Introduction

Testing Product: Desktop Calculator application, build 1.0 [calculator](https://drive.google.com/file/d/1hLMsZz4sWjRCTPis3iMJz-O25TpDg3ZV/view?usp=sharing)

The calculator works in 2 modes: “Инженерный”, “Обычный”.

The calculator will be used by our employees.

Testing task: to make sure that we get a quality product in order to use it for work in the company

# Scope of work

Components and Functions to be tested:

* Mode “Инженерный”
* Mode “Обычный”

Functions not to be tested:

* Only one operating system used for testing: Windows 10 version of 21H1
* Localization not tested
* The design of the application must be checked and approved by the designer

Third-party components:

* Jira license
* TestRail license

# Quality and Acceptance Criteria

Acceptance criteria:

* successful completion of 100% smoke testing level test cases and 90% critical path level test cases, provided that 100% of critical and high importance defects are eliminated
* the final coverage of requirements by test cases must be at least 90%

Test start criteria:

* requirements to be clarified
* build exit
* the design layout must be approved

Test suspension criteria:

* the transition to the critical path test is allowed only if 100% of the smoke test cases have been successfully passed

Test resumption criteria:

* fixing more than 90% of defects found in the previous iteration

Test completion criteria:

* at the time of release there should be no open critical and major bugs
* there should be no open performance bugs at the time of release

# Critical Success Factors

* Full access to the bug tracking system
* Revealed bugs are fixed and fixes are covered by unit tests
* There should be no delays from the development team
* There should not be a breakdown of agreements at the last moment
* Requirements frozen

# Risk Assessment

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk** | **Probability** | **Impact** | **Actions** |
| Inexperienced tester | Low | Incomplete test coverage | Test leader has to check written test cases |
| A large number of bugs | Hight | Delayed release due to the need to fix bugs and retest | Cover fixes with unit tests |
| Delay of requirements due to their incompleteness [Requirements](https://docs.google.com/document/d/1V-ZPCIO1dajGp_W40xlih0axyZQcs5dy9_LwuOUfO-A/edit?usp=sharing) and lack of application layout | Medium | Delayed release due to the need to make changes to test cases | Clarify requirements within 24 hours |

# Resources

Key Project resources: Romantsevich Ilia - Test leader

* Tester training
* Checking the tester's work

Test team: Kravets Alina, Junior QA

* Analysis and design of test scenarios
* Creation of test cases
* Manual functional testing
* Documentation of defects

Test hardwear: 1 PC with ОS Windows 10.

Test tools : Jira, Testrail

Time resource: 1 working week (40 hours)

# Test documentation

|  |  |  |
| --- | --- | --- |
| **Title** | **Frequency** | **Responsible person** |
| Test plan | once before the testing start | Test leader |
| Test cases | before the testing start | QA engineer |
| Bug report | upon finding bugs | QA engineer |
| TTR | once after the testing finish | QA engineer |

# Test Strategy

Entry Criteria:

* A working version of the application has been released
* Full documentation is provided to start compiling test cases
* Test cases written

Test Method: manual

Test types: Functional testing, installation testing, GUI testing

Test Level: Smoke, Critical

Bug and documentation tracing:

* Google docs
* Testrail

# Testing Schedule

|  |  |  |
| --- | --- | --- |
| **Date** | **Activity** | **Duration** |
| 11/18/2021 | Creating of Smoke Check-list, Check-list for the Critical path test | 2 hours |
| 11/19/2021 | Creating Test cases corresponding Test suite for requirement # 22.2 | 3 hours |
| 11/22/2021 | Transfer of checklists and test cases to the testrail | 1 hour |
| 11/23/2021 | Test cases execution | 3 hours |
| 11/24/2021 | Documentation of bugs | 3 hours |

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| --- | --- | --- | --- | --- | --- |
| **Revision History** | | | | | |
| **Ver.** | **Descriptions of Changes** | **Author** | **Date** | **Approved** | |
| **Name** | **Effective date** |
| Calculator 1.0 |  |  |  |  |  |
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