TEST PLAN FOR EXPLORATORY TESTING OF

FACTORIAL

CALCULATOR

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| **General information** | |
| Customer | xxx |
| Created by (Author) | Paweł Hachuła |
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| Status |  |

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| Version | Description | Author | Date | Approved by | |
| Author | Date |
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10. **INTRODUCTION**
    1. **Objectives**

The Test Plan has been created to communicate the test approach to team members.

It includes the objectives, scope and approach. This document describes the methods and procedures that will be used in the exploratory testing process of the Factorial Calculator from https://qainterview.pythonanywhere.com/.

* 1. **Purpose**

The purpose of the testing process in the Factorial Calculator project is to detect errors in its operation and to provide information about the quality of the software.

The result will be confirmed with a report on the activities carried out.

1. **SCOPE**

The document is about testing the GUI, testing usability and checking the functionality of the Factorial Calculator from https://qainterview.pythonanywhere.com/.

No requirements specification.

* 1. **Functions to be tested**
  + GUI
  + Application usability
  + Factorial Calculator logic
  + Factorial Calculator functionality
  1. **Functions not to be tested**
  + Not other than mentioned above in section 2.1

1. **TEST APPROACH**

The main testing approach will be exploratory testing without test cases.

The team must also use experience-based testing and error guessing, use testers' skills,

intuition and experience with similar applications or technologies.

It will also be checked how the software works in the supported browsers.

1. **RESOURCES**
   1. **Tools for use in the project**

|  |  |
| --- | --- |
| Name of process | Tool |
| Defect management | JIRA |
| Test reporting | Microsoft Word |
| Screenshots / Video capture | ShareX |

* 1. **The list of the browsers**

|  |  |  |
| --- | --- | --- |
| Name of the browsers | Version | Operation system |
| Google Chrome | 112.0.5615.121 (64 bit) | Windows 10 |
| Mozilla Firefox | 112.0 (64 bit) | Windows 10 |
| Microsoft Edge | 112.0.1722.48 (64 bit) | Windows 10 |

1. **ENTRY AND EXIT CRITERIA** 
   1. **Entry criteria**
   * The test environment such as hardware, tools and software must have been successfully installed, configured and functioning properly
   * Testers are experienced in exploratory testing
   * Test data are available
   1. **Exit criteria**
   * The schedule has been reached
   * Defects are documented and reported
   * Prepared test report
2. **TEST SCHEDULE**

The test will be carried out from 24/04/2022 to 26/04/2023. The table below shows a detailed action plan.

|  |  |  |  |
| --- | --- | --- | --- |
| Task name | Start | Finish | Person |
| Create test plan | 24.04.2023 | 24.04.2023 | Paweł Hachuła |
| Create test data | 24.04.2023 | 24.04.2023 | Paweł Hachuła |
| Exploratory testing | 25.04.2023 | 25.04.2023 | Paweł Hachuła |
| Creating test report | 26.04.2023 | 26.04.2023 | Paweł Hachuła |

1. **BUG SEVERITY AND PRIORITY DEFINITION**

Bug Severity and Priority fields are both very important for categorizing bugs and prioritizing if and when the bugs will be fixed. The bug Severity and Priority levels will be defined as outlined in the following tables below. Testing will assign a severity level to all bugs. The Test Lead will be responsible to see that a correct severity level is assigned to each bug.

* 1. **Severity list**

|  |  |  |
| --- | --- | --- |
| **Severity ID** | **Severity Level** | **Severity Description** |
| 1 | Critical | The module/product crashes or the bug causes non-recoverable conditions. System crashes, GP Faults, database or file corruption, potential data loss, program hangs requiring reboot are all examples of a severity 1. |
| 2 | High | Major system components are unusable due to failure or incorrect functionality. Severity 2 bugs cause serious problems such as a lack of functionality, or insufficient or unclear error messages that can significantly impact the user, prevent other areas of the app from being tested, etc. Severity 2 bugs can have a workaround, but the workaround is inconvenient or difficult. |
| 3 | Medium | Incorrect functionality of component or process. There is a simple workaround for the bug if it is severity 3. |
| 4 | Minor | Typos and misspellings are severity level 4. |

* 1. **Priority list**

|  |  |  |
| --- | --- | --- |
| **Priority ID** | **Priority Level** | **Priority Description** |
| 1 | Highest | This bug must be fixed immediately; the product cannot ship with this bug. |
| 2 | High | These are important problems that should be fixed as soon as possible. |
| 3 | Medium | The problem should be fixed within the time available. If the bug does not delay the shipping date, then fix it. |
| 4 | Low | It is not essential (at this time) that these bugs be addressed. Fix these bugs after all other bugs have been fixed. |
| 5 | Lowest | Minor fixes/improvements |

1. **ROLES AND RESPONSIBILITIES**

|  |  |
| --- | --- |
| **Role** | **Responsibilities** |
| Project Manager | 1. Acts as the team's primary contact person for development and quality control.  2. Responsible for the project schedule and overall  project success. |
| Test Lead | 1. Participates in the process of creating/updating the project plan.  2. Plans and organizes the test process.  3. Works with testers on any matter/issue encountered during testing.  4. Reports progress in tasks to the Project Manager. |
| Software tester | 1. Creates a test plan.  2. Prepares test data.  3. Performs exploratory tests.  4. Reports and tracks defects.  7. Participates in bug reviews.  8. Liaises with the QA manager for any issues  encountered during test preparation/execution.  9. Creates a test report. |

1. **APPROVALS**

The document should be approved by Project Manager and Test Lead by 13/04/2023. After approval, appropriate environments and tools will be prepared, and all testing activities will be carried out in accordance with the above schedule.

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| --- | --- | --- |
|  | **Project Manager** | **Test Lead** |
| **Name** |  |  |
| **Signature** |  |  |