

**TEST STRATEGY DOCUMENT**

**Project Name:** Sample

**Project Number:** 1

**Prepared For:** Support Centre at Contoso College

**Prepared By:** Chris Dworczyk

**Creation:** 11/10/2017

**Last Updated:** 11/10/2017

**Date Submitted:** 01/11/2017

**Class:** HND Software Development

**Version Number:** 01

**Security Classification:** Low

# Document Control

# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision No** | **Revision Date** | **Description of Change** | **Author** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Document Detail

|  |  |
| --- | --- |
| **Title** | Test Strategy Document |
| **Version** | V1 |
| **Date** | 01/11/2017 |
| **Electronic File Name** | TestPlan(Chris Dworczyk) |
| **Electronic File Location** |  |
| **Author** | Chris Dworczyk |
| **Contributors** |  |

# Referenced Documentation

|  |  |  |
| --- | --- | --- |
| **Ref** | **Document Name** | **Electronic File location** |
| Data validation | DataValidationTestLog | E:\New folder\TestLogs\Functional |
| Event validation | EventValidationTestLog | E:\New folder\TestLogs\Functional |
| Code rectification | CodeRectifications | E:\New folder\TestLogs\Structural |

# Team Members and Roles

|  |  |
| --- | --- |
| **Resource Name** | **Role** |
| N/A | Project Manager |
| N/A | Programmer |
| Chris Dworczyk | Tester |

# Diary/Log of Errors

|  |  |  |
| --- | --- | --- |
| **Date** | **Error Description** | **Action** |
| 08/11/2017 | Not all fields are cleared when pressing the clear button | Find the function which takes care of clearing the fields |
| 08/11/2017 | Not all results shown are correct | Check the logic operators |
| 08/11/2017 | Program crashes when exceptional data is put into the January field like: epty, ! or + | Find in the code where the code takes care of the January input field |
|  |  |  |
|  |  |  |

Table of Contents

[Document Control 2](#_Toc371420101)

[Revision History 2](#_Toc371420102)

[Document Detail 2](#_Toc371420103)

[Referenced Documentation 2](#_Toc371420104)

[Team Members and Roles 2](#_Toc371420105)

[Diary/Log of Errors 2](#_Toc371420106)

[1.0 Introduction 4](#_Toc371420107)

[2.0 Objectives 4](#_Toc371420108)

[3.0 Scope 4](#_Toc371420109)

[4.0 Test Items 4](#_Toc371420110)

[5.0 Testing Methods 4](#_Toc371420111)

[6.0 Testing Strategy 4](#_Toc371420112)

[7.0 Testing Levels 5](#_Toc371420113)

[7.1.4 Acceptance Testing 5](#_Toc371420114)

[9.0 Exit Criteria 5](#_Toc371420115)

[10.0 Environmental Needs 5](#_Toc371420116)

[11.0 Staffing and Training 6](#_Toc371420117)

[12.0 Test Schedule 6](#_Toc371420118)

[13.0 Testing Deliverables 6](#_Toc371420119)

[15.0 Features not to be Tested 6](#_Toc371420120)

[16.0 Risks and Contingencies 7](#_Toc371420121)

[17.0 Approvals 7](#_Toc371420122)

[Appendices 8](#_Toc371420123)

# Introduction

I’ve been tasked with helping fix and debug the application given to students to monitor their progress due to a worrying trend in failing to complete their studies. The solution provided has semantic errors in which the program runs correctly but does not work as intended giving out the wrong results in some boxes.

# Objectives

I will use test logs to document the programs errors to try and pinpoint where in the program a particular error occurred. All the changes will be documented in detail.

# Scope

In this plan I will cover all the input boxes for data validation and all the controls like buttons to ensure they perform the correct functions. Moreover all the display labels will be checked over to correct any wrong outpouts.

*This section describes what is being tested, such as all the functions of a specific product, its existing interfaces, integration of all functions. Test planning must be performed throughout the System Development Life Cycle. Give samples of what documentation you intend to use.*

# **Test Items**

*Data validation log*

*Event validation log*

*Code rectification log*

# Testing Methods

I will be using white box testing which relates to the actual internal structure and code of the application as opposed to just its functionality.

*In this section describe the types of testing methods that you intend to adopt for testing, such as black, white and grey box.*

# Testing Strategy

Top down strategy will be used in this scenario as we are only testing a small single file program.

*In this section justify your testing strategy. There are two different strategies top down, bottom up. Below are some examples:*

*Documenting a test strategy gives you time to think about what exactly the testing has to achieve*

*Circulating a documented test strategy allows others to review, to cross reference sections and validate the content.*

*Documenting a strategy assists with the overall project planning.*

*Having a documented test strategy provides a point of reference both for you and others as the project progresses.*

*Having a documented strategy allows all stakeholders to have a say in the testing process.*

# 7.0 Testing Levels

*In this section describes the proposed levels of testing that you will undertake. Tests are frequently grouped by where they are added in the software development process, or by the level of specificity of the test.*

## Unit Testing

I will be testing each competent of the program like the buttons and inputs fields to make sure they perform correct.

This refers to tests that verify the functionality of a specific section of code.

## Integration Testing I will be testing each of the buttons corresponding to each block of code to ensure they all work correctly.

## System Testing

The system as a whole will be tested to ensure that the correct outputs are displayed on the labels.

## *System testing tests a completely integrated system to verify that it meets its requirements.*

## **7.1.4** **Acceptance Testing** *At last the system is delivered to the user for Acceptance testing.*

## 7.1.5 Installation Testing *A installation test assures that the system is installed correctly and working at actual customer's hardware.*

## 7.1.6 Compatibility Testing *A common cause of software failure (real or perceived) is a lack of its* [*compatibility*](http://en.wikipedia.org/wiki/Computer_compatibility) *with other* [*application software*](http://en.wikipedia.org/wiki/Application_software)*,* [*operating systems*](http://en.wikipedia.org/wiki/Operating_system) *(or operating system* [*versions*](http://en.wikipedia.org/wiki/Software_versioning)*, old or new), or target environments that differ greatly from the original (such as a* [*terminal*](http://en.wikipedia.org/wiki/Computer_terminal) *or* [*GUI*](http://en.wikipedia.org/wiki/GUI) *application intended to be run on the* [*desktop*](http://en.wikipedia.org/wiki/Desktop_metaphor) *now being required to become a* [*web application*](http://en.wikipedia.org/wiki/Web_application)*, which must render in a* [*web browser*](http://en.wikipedia.org/wiki/Web_browser)*).*

## 8.0 Entry Criteria

*This section will provide information when testing starts.*

# 9.0 Exit Criteria

*This section will provide information when testing stops.*

# 10.0 Environmental Needs

*This section includes the hardware and software requirements you require to undertake the tests.*

|  |  |
| --- | --- |
| **Hardware** | **Software** |
| PC | Visual Studio |
|  |  |
|  |  |

# 11.0 Staffing and Training

*This section deals with specifying staff skills and training requirements to use the software.*

# 12.0 Test Schedule

*This section will show the estimated time required to do each testing task, include milestones.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Task Name** | **Start** | **Milestone/Finish** | **Comments** |
| System Analysis | 22/08/2017 | 31/08/2017 | Approved |
| Getting Test Scenarios | 30/08/2017 | 10/09/2017 | Approved |
| Unit Testing | 05/09/2017 | 20/09/2017 | Approved |
| Meeting | 10/09/2017 | 11/09/2017 | Approved |
| Test Case | 29/09/2017 | 30/09/2017 | Approved |
| Acceptance Testing | 5/10/2017 | 10/10/2017 | Approved |

# 13.0 Testing Deliverables

*This should include the test document type, person responsible and date due*.

|  |  |  |
| --- | --- | --- |
| **Deliverable** | **For** | **Date/Milestone** |
| Test Plan | Project Manager | 22/10/2017 |
| Test Logs | Project Manager | 31/10/2017 |
|  |  |  |
|  |  |  |

## 14.0 Features to be Tested

Data validation and event validation tests will be run on the main components and controls of the program for example: buttons perform the correct actions and the labels display the correct results.

* Button – Clear All: should clear all the results field
* Button – Show Results: initiate the calculation of referrals and displays them
* Button – Close Application : closes the application
* Results Box – total: should display the total referrals
* Results Box – average: should display the average referrals from all the months combined
* Results Box – highest month: display the highest referral month
* Results Box – lowest month: display the lowest referral month
* Input Boxes – referrals: should accept all inputs and data validate the input

*Unit testing, also known as component testing, refers to tests that verify the functionality of a specific section of code, usually at the function level.*

[*Usability testing*](http://en.wikipedia.org/wiki/Usability_testing) *is needed to check if the user interface is easy to use and understand. It is concerned mainly with the use of the application*.

## *Functional testing refers to activities that verify a specific action or function of the code. These are usually found in the code requirements documentation.*

## 

15.0 Features not to be Tested  
Software security will not be tested

# 16.0 Risks and Contingencies

*This section will specify contingency plans for each delayed of test item and identify high risk items in testing process.*

# 17.0 Approvals

*This section must specify the names and titles of persons who must approve this plan.*

|  |  |  |
| --- | --- | --- |
| **Prepared By** | **Signature** | **Date** |
| Author  Job Title  Organisation | Chris Dworczyk  Software Tester  OOP Solutions Ltd | 08/11/17 |

|  |  |  |
| --- | --- | --- |
| **Accepted By** | **Signature** | **Date** |
| Project Manager  Job Title  Organisation |  |  |