SOFTWARE, INC.

**Test Plan for**

**GolfScore**

**Revision 1.1**

**Bui Anh Dat**

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# Introduction

## Objective

The Test Plan is an aggregation of information, which describes the entire test activity for this project. It covers the entire testing effort (unit, development test, system verification test, and Beta). It identifies the product requirements, schedules, resource requirements (people, effort and equipment), quality, assumptions, exclusions, and risks.

A preliminary Test Plan is prepared for the Project Team during the System Phase of PEAQ Process. This Test Plan will be updated in the earliest possible time of the Implementation Phase, so that progress can be tracked during implementation.

## Project Description

GolfScore is a program used to generate reports of golfers’ results for a golf tournament.

The input to the program will consist of a file containing two types of records. The output from the program will consist of up to 3 reports. The program is executed via a command line interface – there is no GUI associated with the application.

The program will be run as a stand-alone executable and can be run from a command line prompt, from within an IDE (Integrated Development Environment), etc. Input to the program will come from an input record file, and output from the program will go to output record files in a format suitable for printing.

Any errors in the inputs or outputs will be handled as specified.

## Process Tailoring

[This project will use software development and management processes as a guideline. Some tailoring of the process based upon the unique project requirements will be discussed here. Rationale for eliminating certain process steps will be given.

Specify also what types of tests are planned for the project. Types of testing include specification, functional, limits, stress, destructive, compatibility, performance, documentation, network and system. Referenced Documents

[All references used to produce this document should be listed here. Examples are Software Requirements Specification, Product Definition Document, Software Development Plan. These references should be listed with part numbers.]

# Assumptions/Dependencies

The development team is supposed to run your code during software unit test development and also run integration tests. Customer validation tests are supposed to be performed by field representatives in conjunction with customers.

The development team must make the program available before November 6, 2023 to be consistent with the established schedule.

# Test Requirements

• Entrance Tests :

* The program is Written in C or C++.
* The program runs on a PC running on Windows 2000 or later versions.
* The program can be run from command line prompt.
* The program should run with valid parameters.

• Main Tests :

* The number of golf courses specified for the tournament must be from 1 to 5.
* Each golfer is expected to play each course once.
* The number of golfers entered in each tournament can be from 2 to 12.
* Par for holes on each course must be either 3, 4 or 5.
* Score earned by a golfer for each hole played is between 0 and 6.
* There is a delimiter record that signal end of course records.
* There is delimiter record that signal ends of the input file.

• Exit Tests :

* The program should produce number of reports corresponding to specified options.
* The generated reports should be saved as text file in the specified output directory with the extension .rep
* If requested the tournament ranking report should contain a list of all golfers in the specified format.
* If requested the course report should contain a section for each Golf Course listed in the input Course Records in the specified format.

# Test Tools

• Defect reporting and tracking software.

• Installation media for multiple Windows versions above 2000.

# Resource Requirements

• GolfScore program version 1.1

• Three PC capable of hosting virtual machines.

• A virtualization software.

• Four Test Group personnel.

# Test Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Tests | Start | Finish |
| 1 | Test Development | 01.11.2023 | 06.11.2023 |
| 2 | Program Availability | 06.11.2023 | 06.11.2023 |
| 3 | Entrance Test | 07.11.2023 | 13.11.2023 |
| 4 | Main Test | 14.11.2023 | 24.11.2023 |
| 5 | Exit Test | 24.11.2023 | 01.12.2023 |
| 6 | Regression Testing | 02.12.2023 | 11.12.2023 |

# Risks/Mitigation

Without having a program that enforces compliance in the structure of input data there is a high probability of input data error

# Metrics

The following metrics data will be collected. Some will be collected prior to and some after product shipment.

Prior to Shipment

Effort expended during DVT, SVT and Regression each defect is attribute to

Test Tracking PTR S-Curve.

After Shipment

Defects uncovered and development phase each defect is attribute to Size of software.

Appendix A – Detailed Resource Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Tests | No. of Personnel | No. of Hours |
| 1 | Test Development | 4 | 48 |
| 2 | Entrance Testing | 4 | 48 |
| 3 | Main Testing | 4 | 80 |
| 4 | Exit Testing | 4 | 56 |
| 5 | Regression Testing | 3 | 72 |

• PC that are capable of hosting virtual machines are required such that the program can be tested on multiple version of windows.

• A virtualization software is required such that multiple windows version can be installed to test the program.

Appendix B – Detailed Test Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Tests | Start | Finish |
| 1 | Test Development | 01.11.2023 | 06.11.2023 |
| 2 | Program Availability | 06.11.2023 | 06.11.2023 |
| 3 | Entrance Test | 07.11.2023 | 13.11.2023 |
| 4 | Main Test | 14.11.2023 | 24.11.2023 |
| 5 | Exit Test | 24.11.2023 | 01.12.2023 |
| 6 | Regression Testing | 02.12.2023 | 11.12.2023 |

|  |  |  |
| --- | --- | --- |
| No. | Tests | Dependencies |
| 1 | Test Development | 4 PCs  4 Personnel |
| 2 | Program Availability | GolfScore program |
| 3 | Entrance Test | 4 PCs  4 Personnel  Virtualization software |
| 4 | Main Test | 4 PCs  4 Personnel  Virtualization software |
| 5 | Exit Test | 4 PCs  4 Personnel  Virtualization software |
| 6 | Regression Testing | 3 PCs  3 Personnel  Virtualization software |