**MSSE SOFTWARE, INC.**

**Test Plan for**

**GolfScore**

**Rev 1.1**

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# Introduction

## Objective

This document is an aggregation of information, which describes the entire test activity for GolfScore Release 1.1. 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 Release 1.1.

The purpose of the program is to process scores from a golf tournament, and produce reports showing who won the tournament and how the golfers performed on each course played.

The program takes an input file and produces up to three output files based on input options.

## Process Tailoring

Functional and Non-functional tests are planned for the project.

Types of tests:

Design Verification Test

System Verification Test

Tests will be broken into three phases:

**Entrance Testing** – will be performed to verify that the program can be executed as specified in the SRS. See Appendix X.X for a description of the Entrance Test Cases.

**Main Test** – will be performed to verify the corectness of the program. Main Test determines that all the requirements in the SRS have been staisfied. See Appendix X.X for a description for Main Test Cases

**Regression Test** – will be performed to verify the integrity of the GolfScore to ensure the integrity of the program.

# Assumptions/Dependencies

It’s assumed that unit tests and integration tests were performed by the development team.

The program must be available by 05 Jun, 2022

# Test Requirements

Entrance Test:

* The program will display its title and revision number on the screen at execution time.
* The program can be run from a CLI & IDE as a standalone executable
* The program can be called with valid options and parameters.
* The program runs on a PC running Windows 2000 or any later version.

Main Test:

* The number of golf courses specified for the tournament can be from 1 to 5.
* Each golfer is expected to play each course once.
* The number of golfers entered in the tournament can be from 2 to 12.
* Each golf course has 18 holes, and par for each hole is either 3, 4 or 5 strokes.
* A golfer's score for a each hole is determined as shown in Section 2.3.2 of SRS.
* Thus score and stroke count are not the same.
* A golfer's stroke count for a particular golf course is the sum of the stroke counts for each of the 18 holes.
* A golfer's score for a particular golf course is the sum of the scores for each of the 18 holes.
* A golfer’s total tournament score is the sum of his or her scores for all courses played.
* There is a delimiter for the end of Course Records and Golfer Records.

Exit Test:

* The program should generate up to 3 reports based on called options.
* The ouput should be saved in the output location or in the input location (if output location is not specified).
* *Torunament Ranking Report:*
  + Should contain a list of all the golfers with the golfer’s name, the score for each course, the total tournament score, and that golfer’s final standing.
  + The list will be in descending order of final score (i.e best golfer first). In this case of ties, the golfers will be listed alphabetically.
  + Output filename will be *trank.rep*
* *Golfer Report:*
  + Should contain a list of all the golfers with the golfer’s name, the score for each course, the total tournament score, and that golfer’s final standing.
  + The list will be in ascending order of final score (i.e best golfer first). In this case of ties, the golfers will be listed alphabetically.
  + Output filename will be *golfer.rep*
* *Course report:*
  + This report will have one section for each Golf Course specified in the input Course Records.
  + For each course, the report will show a list of all the golfers with the golfer’s name, the hole-by-hole stroke count for that course, and the total score for that course, listed in descending order of score on that course.
  + The output filename will be *course.rep*

# Test Tools

The following tools are needed to conduct test activities:

* Bug tracking software
* Virtualization software with installed Windows 2000 and later versions.
* IDE’s with support of C/C++.

# Resource Requirements

Tests will require the following resources:

* GolfScore version 1.1
* PC’s capable of running Virtualization software.
* Testing personnel (at least 2 persons)

# Test Schedule

|  |  |  |
| --- | --- | --- |
| **Test Sequence** | **Start** | **Finish** |
| 1. Test Development | 05.05.2022 | 05.06.2022 |
| 2. Module Availability | 05.06.2022 | 06.06.2022 |
| 3. Entrance Testing | 06.06.2022 | 13.06.2022 |
| 4. Main Testing | 13.06.2022 | 27.06.2022 |
| 5. Exit Testing | 27.06.2022 | 30.06.2022 |
| 6 Regression Testing | 30.06.2022 | 05.07.2022 |

# Risks/Mitigation

The program is highly dependent on the input data / An input standartization program may be needed in order to avoid future errros.

# Metrics

The status and progress of tests will be recorded through the collection of various sets of data, and the Test Case

Matrices in Appendix B will regularly be updated with the status of each test case. Thus, at any time one can see how many test cases have been attempted and, of those, how many have passed.

In addition, effort, size and defect data will be collected prior to and after product shipment. Once data from enough projects has been collected, estimates of testing progress and duration will become more meaningful.

Appendix A – Detailed Resource Requirements

[To estimate the resource, all test activities must be identified and resources needed to accomplish the activities estimated. Detailed estimates will be shown here. This consists of identifying all project test activities by the Test Group and the number of hours estimated to accomplish these activities. Be specific. Show specific responsible test engineer’s names, if possible. A grand total of the effort must be shown here, as well as in Section 5.0.]

Appendix B – Detailed Test Schedule

[Attach two charts, viz. Gantt and PERT. In Gantt, main activities are shown as a list on the Y-column with bars parallel to the X-axis, showing the timeframe to perform activities. In PERT, dependencies of each activity must be identified.]