*MSSE SOFTWARE, INC.*

**Test Plan for**

**GolfScore**

Confidential and Proprietary Information of MSSE Worldwide

Contents

1.0 Introduction 3

1.1. Objective 3

1.2. Project Description 3

1.3. Process Tailoring 3

1.4. Referenced Documents 3

2.0 Assumptions/Dependencies 3

3.0 Test Requirements 3

4.0 Test Tools 4

5.0 Resource Requirements 4

6.0 Test Schedule 4

7.0 Risks/Mitigation 4

8.0 Metrics 4

Appendix A – Detailed Resource Requirements 5

Appendix B – Detailed Test Schedule 6

# Introduction

## Objective

This document describes the test plan for the GolfScore software and includes information on what is to be tested, and how the testing is to be accomplished (test methodology). Specifically, this document describes the tests to be performed, the testing schedule, resources required, dependencies, test tools, risks, metrics and the Detailed Resource Requirements. This is a living test plan and must be changed to reflect the Core Team needs and requirements as they arise.

The main purpose of this test is to verify the requirements for the GolfScore software.

This preliminary Test Plan is prepared for the Project Team during the System Phase of PEAQ Process and 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 formatted text file containing the Course name, course identifier, Par for holes. The output from the program will consist of up to 3 reports, based on input options i.e. Tournament Ranking Report, Golfer Report and Course Report. The program will be executed via a command line interface (CLI) – 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.

The program is able to detect and report both input errors (Input parameter errors, input data errors) and output errors.

## Process Tailoring

The project implementation will follow the following custom tailored steps as its implementation model:

➢ Specification testing

➢ Functional testing

➢ Compatibility testing

➢ Documentation review

**References:**

1. Software Test Plan for Advanced Color Module, Feb 22, 2000
2. Software Requirement Specification of GolfScore, July 18, 2017

# Assumptions/Dependencies

In order to begin testing of the GolfScore program, the following needs to happen:

* There is a fully functional computer (hardware) at the premise.
* The computer meets the minimum hardware requirements to run GolfScore program.
* The GolfScore program is successfully installed and executed on the computer.
* The tests are passed successfully.

# Test Requirements

* A fully functional Computer with MS Windows Operating System.
* The program is successfully run on the system with the UI visible.

# Test Tools

* GolfScore Documentation
* Test plan/schedule

# Resource Requirements

Only human resource in the form of a tester, who will perform all the tests according to the documentation and document whether the functions run successfully or not.

# Test Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Test Sequence** | **Start** | **Finish** |
| 1 | Test Development | 12/4/2023 | 1/5/2023 |
| 2 | Module Availability | 1/5/2023 | --- |
| 3 | SVT Entrance Testing | 1/5/2023 | 20/5/2023 |
| 4 | SVT Main Testing | 20/5/2023 | 15/6/2023 |
| 5 | SVT Regression Testing | 15/6/2023 | 30/6/2023 |

# Risks/Mitigation

1. **Incomplete testing**: It has to be ensured while executing the test plan that all important code modules/classes, functions and lines be fully tested.
2. **Testing delays**: It must be ensured that the product is delivered to the testing team by the production team in time, in order not to further delay the testing and hence the overall delivery schedule.
3. **Test environment issues**: It will be ensured that the system/environment that the product is to be tested upon is fully operational without any defects i.e. software/hardware.

# 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

# of defects uncovered during DVT, SVT and Regression, and development phase each defect is attributable to

Test tracking S-Curve

PTR S-Curve

After shipment:

# of defects uncovered and development phase each defect is attributable to

Size of software

Appendix A – Detailed Resource Requirements

1. **Testers**: The Test Plan requires one tester per system, with experience with automated testing tools.
2. **Test Environment**: The test environment must include a Personal Computer with the following minimum specifications: 4GB RAM, 250GB hard disk, and Windows 2000 or above.
3. **Test Data**: The Test Plan requires a minimum of 500 test cases with test data that is representative of production data. The test data must also include various scenarios for different types of users and different operating conditions.
4. **Time and Budget**: The Test Plan estimates that testing will take 1 week and will require an average budget of $1,000, including all hardware, software, and training costs.

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.]