MSSE SOFTWARE, INC.

Test Plan for

GolfScore
Revision 1.1
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Contents

1.0 Introduction

1.1.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.

1.2.Project Description

The purpose of the project 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.

1.3.Process Tailoring

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 as described in Section 2.4 below. The output
from the program will consist of up to 3 reports as described in Section 2.5 below. 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.
GolfScore will be written in either C or C++ and is intended to run on a PC running Windows 2000 or any

later version.

1.4References

1. Software requirements specifications for GolfScore, July 15, 2017.
2. Software Requirements Specification for the Common Image Generator, May 28, 1999

2.0 Assumptions/Dependencies

The GolfScore program requires no external dependencies. The test plan includes Functional and Nonfunctional Testing in the framework of Design Verification and System Validation. Testing will include the following phases:
Entrance Test: to verify that the program can correctly be executed and handle input parameter errors.
Main Test: to verify the correctness of program execution. To check if the program accurately process the input data specified and produces the required outputs.
Regression Test: after defects must have been identified during testing and processed, all tests are run again to ensure proper behavior.

3.Test Requirements

Entrance Tests: The program is written in either C or C++.

The program runs on a PC running Windows 2000 or any later version.
The program will run as a stand-alone executable.
The program can be run from command line prompt.

The program is run with valid input 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 the 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 (0 and 6 included).
The first set of records in the input file (course records) exists and follow the specified format for each entry.
There is a delimiter record that signals the end of course records.
A second set of records (golf records) exist in the input file and each entry follows the specified format.
There is a delimiter record that signals the end of the input file.

Exit Tests:

The program should produce as number of reports corresponding to the specified options. The generated reports should be saved as text files in the specified output directory with the extension “.rep".

4.0 Test Tools

Test Tools Various hardware and software test tools are used to assist in the testing process. Including: i. Hardware enough to run the programs. ii. C or C++ programs. iii. Installation media for multiple Windows versions above 2000.

5.0 Resource Requirements.

System verification
Test will required the following resources:
Software and hardware needed as mentioned in 4.0.
3 SVT personnel with at least 80% of their time available.

6.0 Test Schedule

The testing defined in this document shall be completed according to the following schedule

Test Sequence	Start	Finish
Test development	11.07.2022	29.07.2022
SVT Entrance Testing	20.07.2022	26.07.2022

SVT Main Testing	25.07.2022	12.08.2022
STV System testing	12.08.2022	16.08.2022
SVT Regression Testing	03.08.2022	24.08.2022

7.0 Risks/Mitigation

-Illness or absence of one of the employees may lead to an increase in testing time
-Too many bugs will be found

8.0 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

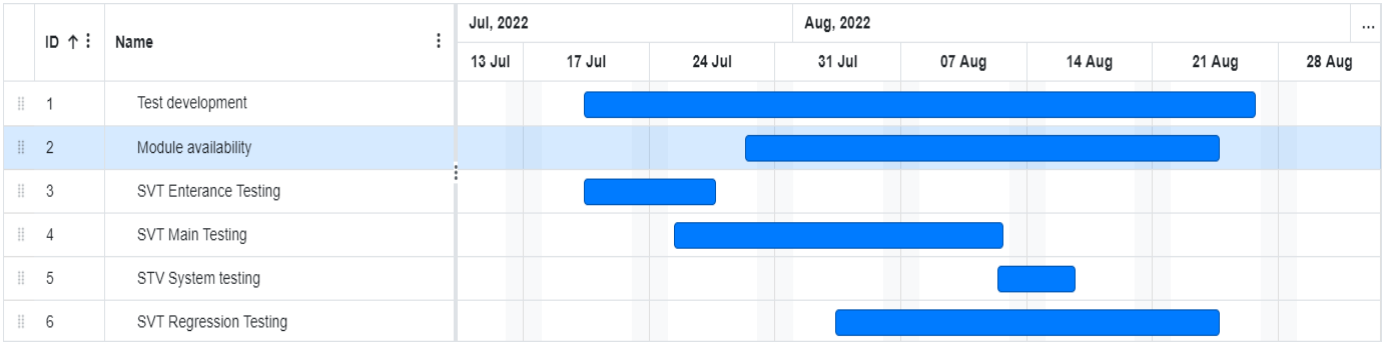
After shipment:
# of defects uncovered and development phase each defect is attributable to
Size of software

Appendix A – Detailed Resource Requirements

Required number	Requirement name
1.	Hardware
1-1	3 PC Able to run all Test Requirements
2.	Software
2-1	GolfScore executable file.
2-2	Microsoft Excel, V 16.0
2-3	IDE- Visual studio Code, V 1.49.0
3	Testing Group
3-1	Aleksei Doroshenko
3-2	Alex Miller

Appendix B – Detailed Test Schedule

GRANT Diagrams:



PERT Diagrams: