

**MYLSOFTWARE COORP.**

**Test Plan for  
GolfScore**

**Revision 1.1**

**Software Testing Team**

**November 2020**

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## **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, design verification test, system verification test, and Beta Tests). It identifies the product requirements, entry criteria, exit criteria, 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 (Product Excellence and Quality) 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**

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

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.

### **1.3. Process Tailoring**

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.

The input to the program will consist of a file containing two types of records as described in Appendix D below.

The output from the program will consist of up to 3 reports as described in Appendix E below.

## **2.0 Assumptions/Dependencies**

In order to begin the testing, the below must be fulfilled:

- 1- PC running windows 2000 or later version
- 2- Development done , A latest GolfScore version installed
- 3- Executable placed on the PC
- 4- Input file structure
- 5- Output file structure
- 6- A latest GolfScore requirements document version

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 and is based on the number of strokes under or over par taken to complete that hole. 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.

Note that the lower a golfer's stroke count (relative to par), the higher his or her score for that hole.

### **3.0 Test Requirements**

To complete the software are needed the following resources:

- Dedicated Server
- Network
- Computer
- Setup File

### **3.1 Test Cases :**

Format for calling GolfScore: >golf options filename output-directory

options one hyphen followed by one or more alphabetic characters, with no commas or spaces

- -h Display help information on the screen; filename and output-directory are ignored, if present
- -c, -t, -g Generate the Course Report (-c), Tournament Ranking Report (-t), or the Golfer Report (-g), respectively. Options may be combined, e.g. -cg

[See Appendix E below for report descriptions.] filename The name of the input file containing the data for the reports. [See Appendix D below].

This may be a fully-qualified name; if no path name is supplied, the path that the program was executed from will be used.

- output-directory The name of the file directory or path where the output files should be placed.
- If no path name is specified, the path containing filename will be used.

Examples: >golf -h Display help information

- >golf -ct c:\in.txt golfout Generate the Course Report and the Tournament Ranking report. The input is in file in.txt in the c:\ root directory, and the output is to be placed in directory c:\golfout.

- Scoring :

The score earned by a golfer for each hole played is as follows:

Stroke count Score

over par 0

par 1

1 under par 2

2 under par 4

3 or more under par 6

## 4.0 Test Tools

Test Requirements which are depicted in 3.0 and Test Automation and progress tracking & defect reporting tool.

## 5.0 Resource Requirements

Test Tools which are depicted in 4.0 and Test Team. Test Team contains of:

- Testers
- Test Analyst
- Test Administrator
- Test Manager

Test Team 's detailed estimation mentioned at Appendix A.

## 6.0 Test Schedule

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

Test Sequence	Start Date	Finish Date	Responsibility
1.Test Development	11/18/2020	12/02/2020	Test Team
2.Module Availability	12/04/2020	01/20/2021	Test Team
3.Entrance Testing	12/07/2020	12/11/2020	Test Team
4.Main Testing	12/14/2020	12/30/2021	Test Team
5.Regression Testing	01/05/2021	01/20/2021	Test Team – Dev Team

For detailed Schedule check Appendix B

## 7.0 Risks/Mitigation

There is no potential risk for this program

## 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

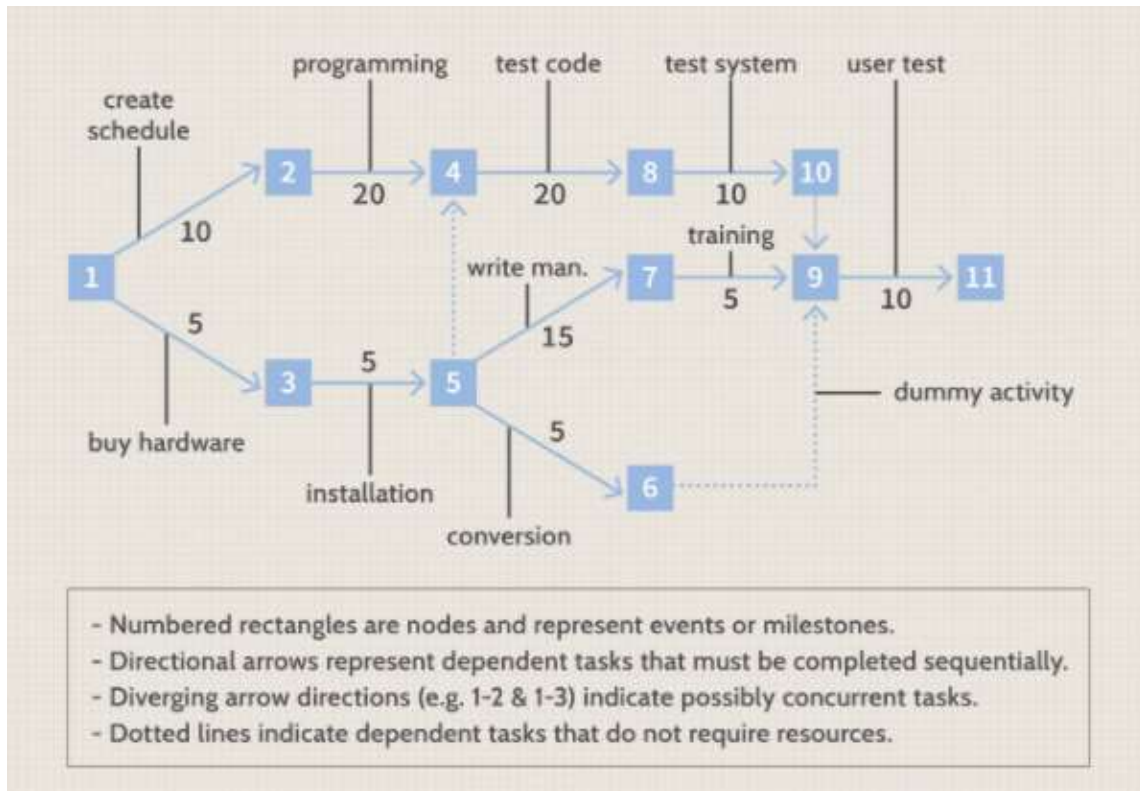
Size of software

## **Appendix A – Detailed Resource Requirements**

- The test case suit will run 150 test cases available in document TestCases.doc
- To complete the test suite is necessary 500 hour for the following tasks:
  - Define requirements (50 h) - Test Team
  - Analyze requirements (100 h) - Test Team
  - Resolve doubts (10 h) - Test Team
  - Analyze test cases (100 h) - Test Team
  - Define test cases (100 h) - Test Team
  - Development software (200 h) - Development Team
  - Prepare test execution (5 h) - Test Team
  - Execute test (50 h) - Test Team
  - Report defects (30 h) - Test Team
  - Fix defects (20 h) - Development Team
  - Retest fixes (15 h) - Test Team

## Appendix B – Detailed Test Schedule

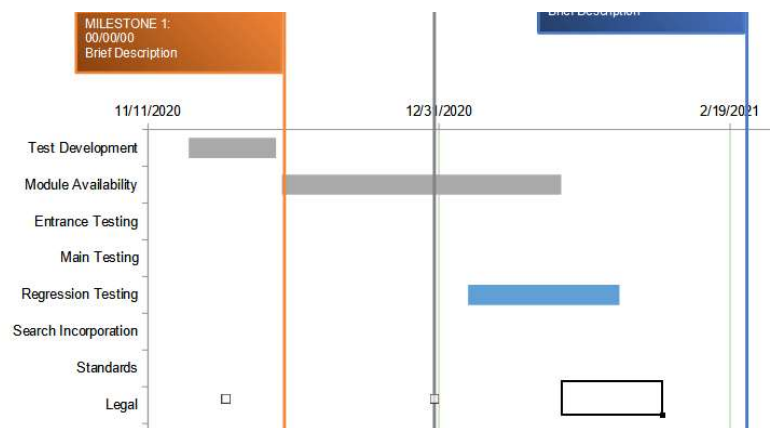
PERT CHART :



GANTT CHART :

GolfScore

TASK NAME	START DATE	END DATE	DURATION (days)
Test Development	11/18/2020	12/2/2020	15
Module Availability	12/4/2020	1/20/2021	48
Entrance Testing	12/07/2020	12/11/2020	5
Main Testing	12/14/2020	01/30/2021	48
Regression Testing	1/5/2021	01/30/2021	26
Search Incorporation			1
Standards			1
Legal			1





## **Appendix C – Definitions and Acronyms**

**PEAQ** Product Excellence and Quality

**SRS** Software Requirements Specification

**SVT** System Verification Test

**PERT** Program Evaluation Review Technique

## Appendix D – Data Input

Data Input :

Input to GolfScore will consist of a formatted text file containing the following records in the order given.

Individual records in the file are terminated by the end of a line.

The name of the input file is supplied as a parameter on the program call line.

Course Records :

The purpose of the Course Records is to describe the various courses being used. There will be one Course Record

for each golf course used in the tournament. Each record contains the name of the course, an identifier for the

Golfer Records, and par for each of its 18 holes. All Course Records come first in the input file.

Column 1 Blank

Columns 2-19 Course name

Column 20 Single-character course identifier

Columns 21-38 Par for holes 1-18, in order, single integer: 3, 4, or 5

Delimiter Record :

The end of the Course Records will be specified by a delimiter record with the following format.

Column 1 Non-blank

Golfer Records :

There will be one Golfer Record for each golfer for each course played; these records can appear in any order.

Each record contains the name of the golfer, the Course Identifier, and the golfer's stroke count on each of the 18 holes.

Column 1 Blank

Column 2 Course Identifier

Columns 3-9 Ignored

Columns 10-29 Golfer name

Column 30 Ignored

Columns 31-48 Stroke count for each of the 18 holes

Delimiter Record :

The end of the Golfer Records, and hence of the input file itself, will also be specified by a delimiter record.

Column 1 Non-blank

## Appendix E – Data Output

### Data Output :

GolfScore will generate up to 3 reports, based on input options. The generated reports will be stored as text files in

the directory determined from the program call line.

#### Tournament Ranking Report :

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 (1st place, 2nd place, etc.). The list will be in descending order of final score (i.e. best golfer

first). In the case of ties, the golfers will be listed alphabetically.

The output filename for this report will be trunk.rep

#### Golfer Report :

This report is exactly the same as the Tournament Ranking Report except that the golfers will be listed

alphabetically by last name.

The output filename for this report 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 for this report will be course.rep