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Test plan

Football Management app

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# Test Plan Identifier

FSMAP – 1013325 v1

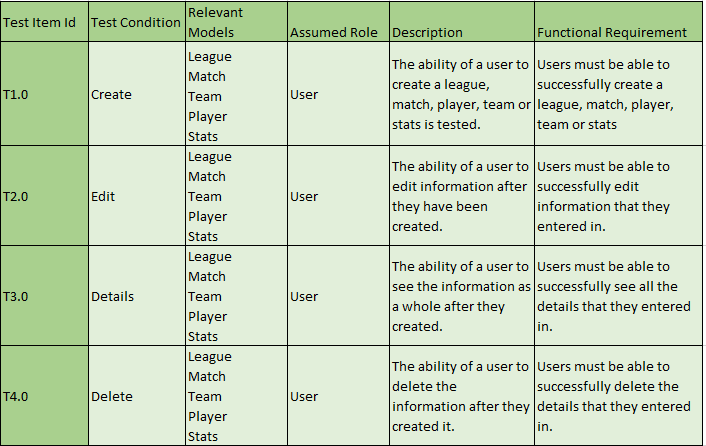
# Introduction

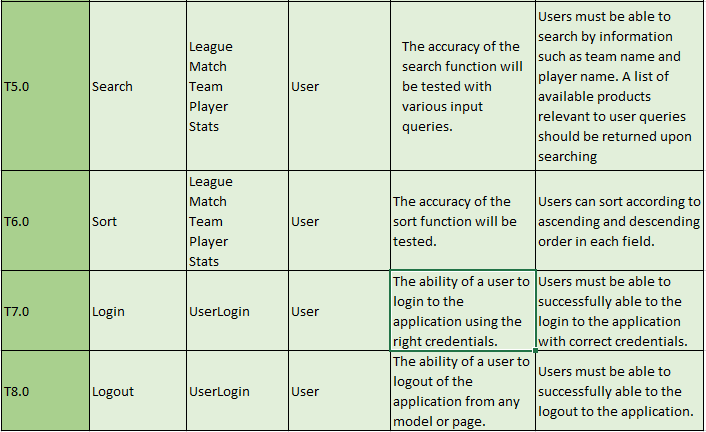
This test plan lays out the different approaches in which the testing procedures will carried out to analyse the different aspects of the “FootballStatisticsManagementApp”. This document provides clear paths to efficiently evaluate different features and efficiently assess the integral parts. This test plan is following the IEEE 829-1998 format (Institute of Electrical and Electronics Engineers, 1998.)

The application that needs to be tested has already been developed therefore adequate testing needs to be done to make sure the core functionality of the application is working without any issues. The document needs to have specific areas that needs more focused testing as they are an integral part of this application.

# Test Items

There are 8 test conditions that have been filtered out of many options as the best suited for testing. These items are listed and explained in the table below.





# Features to be Tested

The main focus of the test plan will be on the actual features that are included in the application. The focus of the test is on the functionality and usability of the aforementioned features. Quality characteristics defined in the ISO 9126 standard which includes performance testing is being taken upon.

# Features not to be Tested

Features excluded from testing:

* **Cross-platform suitability**
* **Recoverability**
* **Replaceability**
* **Security**
* **Efficient resource utilisation**

The above-mentioned features are not a part of testing for this application as they are irrelevant to the project objectives. The required testing for this project has a set goal and these paths are not required. By the goals set by the project we don’t need these to be taken on extensively.

# Approach

The approach that is going to be taken for this testing process must match the requirements that has been defined. The testing phase must focus on the objectives that are an integral part of the system. The primary approach we are following is based on the IEEE 829 standard for software testing documentation which puts emphasis on analytical and process/standard compliant. The testing approach should be consistent with the project requirements or functionalities. There will no coded UI tests because of the software limitations.

# Test Criteria

## Entry Criteria

The entry criteria list out the conditions that must done before further testing can proceed. Which are listed below.

1. Collaboration tool (Github) repository has been made and team members gained access.
2. Acquiring required software and hardware needs.
3. Creating the database for the system.
4. The backend of the application has been developed and tested.
5. The frontend of the application has been developed and tested.
6. Developing suitable UI and frameworks.
7. No major bugs that prevents software from running.
8. Team members are prepared and skilled.
9. Preparing references for testing which can be used as guidelines.
10. Testing criteria and scope has been clearly documented.

## Exit Criteria

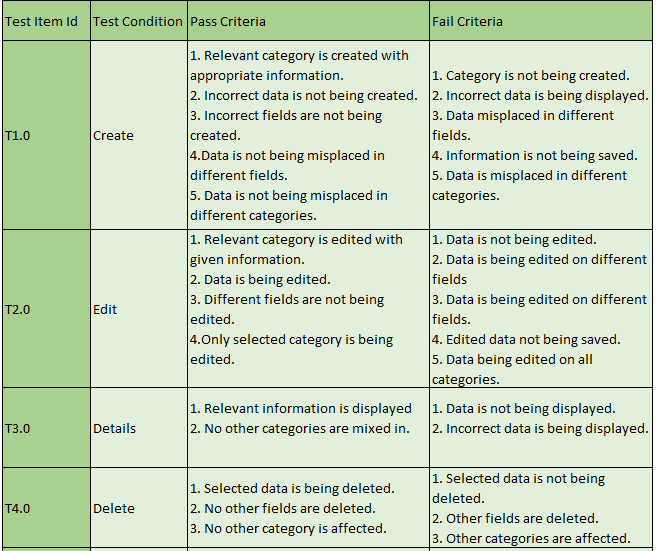
The exit criteria list out the conditions that must be met before testing can be concluded. They act as benchmark to pointing out how much testing is needed.

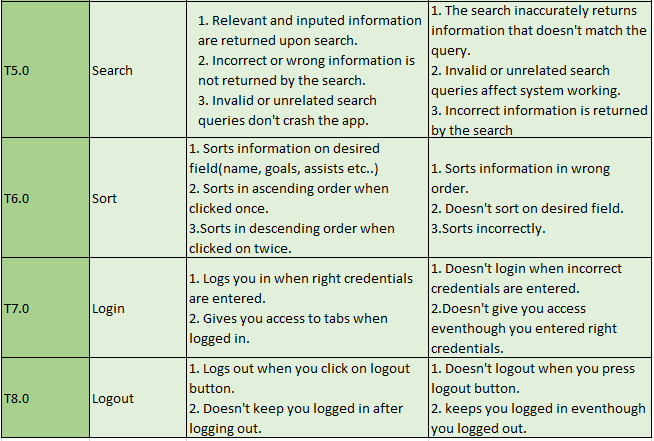
1. All the tests passed without much issues.
2. There are no bugs present in the system.
3. No significant errors left that could lead to system malfunction.
4. Test cases for search function have a 100% pass rate
5. Test cases for sort function have a 100% pass rate.
6. Test cases for create function have a 100% pass rate.
7. Test cases for delete function have a 100% pass rate.
8. Test cases for edit function have a 100% pass rate.
9. Test cases for Login function have a 100% pass rate.
10. Test cases for Logout function have a 100% pass rate.

# Item Pass/Fail Criteria

The criteria for each condition to make sure all test case have a 100% pass rate. There can be no significant errors or bugs left in the application that can cause the application to malfunction or crash.

There a few specific pass/fail criteria for each test condition. They explained in the images below.





# Suspension Criteria and Resumption Requirements

The criteria for suspending the testing activities explain the circumstances in which the testing processes come to a halt. Testing might be stopped in case of an unprecedented change of business requirement change. Which includes addition of extra features and functionality to the application. Because these changes would need to be implemented first to be able to test them. For example, adding a search option for the entire app would need extra development. Resumption will only be possible if these additional features are integrated into the development phase and implemented in the core system.

The testing will also be suspended in the event of a major defect being discovered which could lead to slowing down the actual system or other major problems. If the test case has a pass rate of less than 50% no further testing will be done until the defect is being addressed and fixed by the developer. Resumption in this case can only be done after tests are done on the rewritten code and static analysis also needs to be done on these before test plan can resume.

# Test Deliverables

Test deliverables outline what to expect after rigorous testing is done. These key deliverables will explain what all these tests were about and how did the procedures go. Test cases will be produced at the end explaining which all parts were the main focus. Documentation about the different bugs or defects that were discovered during the process. The deliverables include this document and test reports explaining load testing, performance testing etc.

1. System Test Plan (This document)
2. Test Report (Another document in the folder)

# Environmental Needs

The test environment needed for ease of use needs only a few requirements. Which includes a few good windows pc with a good internet connection. A collaboration tool which all team members can access. Right software with proper licensing and some tools that come with it. There are no extra or specific resources that are hard to acquire. There a few necessities listed below which points out specific hardware and software requirements.

## Configuration Requirements.

### Hardware Requirements

* A Pc with enough ram, storage and processing capabilities.
* Enough input devices (keyboard, mouse etc.)
* Sufficient internet speed and network bandwidth.

### Software Requirements

* A Windows operating system with Visual Studio.
* Compatible web browser to locally host the app.
* A word document to document all the results
* Screenshot tool (snip) to take appropriate screenshots to put in the document.

## Configuration Procedure

1. Use computer with required software and hardware capabilities.
2. Install the right version of Visual studio
3. Run the application
4. Access the application
5. Proceed with test case.

# Responsibilities

The planning, design and execution of this test will be done by an individual with multiple responsibilities. The document author is this individual, Alen Jose

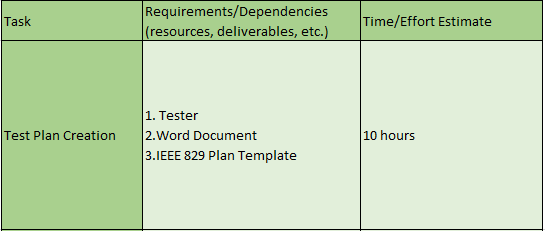
# Staffing and Training Needs

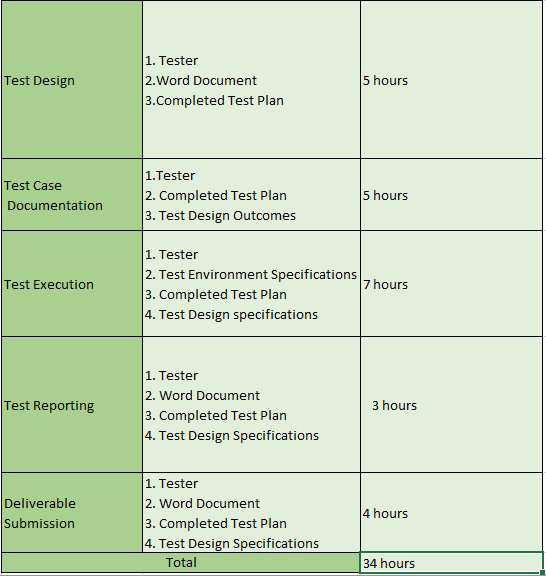
The tester needs help in certain areas of testing because of the complex and the rigid layout of the application. No special training is needed as the procedures were already taught to all the staff. The testers are capable of carrying out all the needed testing with the current knowledge level. As mentioned before the required software is already available to the testers with other tools to help in the process.

# Schedule, Testing Tasks, and Estimation

Testing processes are set to be done over set period of time after the developers finished certain aspects of the application. The actual product itself is set to be delivered on the 30/10/2020, the test document is also set to be delivered on the same day. The major deadline to meet is the product delivery, which is on set to be completed within time, but other requirements are also due on the same day, which puts pressure on the test team. Certain functionalities on the product may have to be dropped to meet the deadline so the team can have enough time to do proper testing on each part.

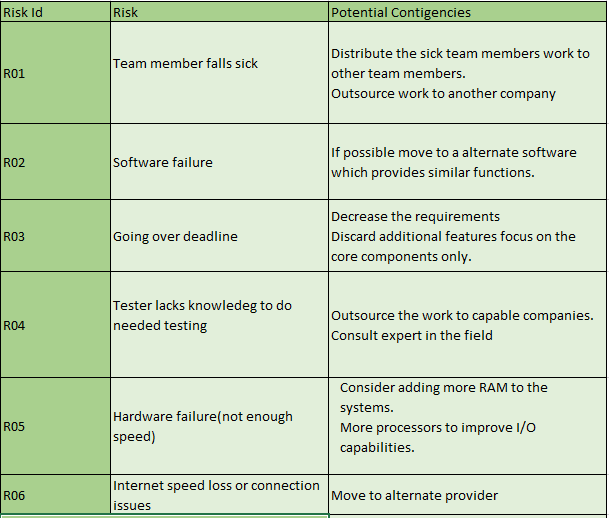
Estimating the time of completion has been somewhat successful with the use of some tools but may not be accurate. Which are explained in the table below.





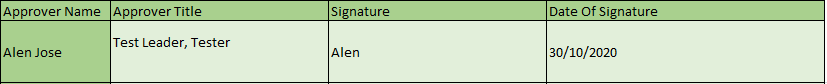
# Risks and Contingencies

Any project that is dependent on other resources and people are under possible risks during testing. They are listed in the document below which also includes possible contingencies for each of them in case they do occur in the testing phase.



# Approvals

This part recognises all document approvers, their titles, signature and date of signature.



# References

Thamena Essahaty. Test Plan for Weltec (2019)