TALS

Release 5.7

Master Test Plan

Version 1.0

**Draft**

November 2015

Submitted by

Team Giant

***1 TEST PLAN IDENTIFIER***

TALS 5.7(build 20151119.44a964b)

Note, the structure of this document is primarily based on the IEEE 829-1998 Standard for Software Test Documentation. Additional reference standards include IEEE 1008 (Unit Testing), 1012 & 1059 (Validation & Verification) and 1074 (Software Life Cycle process).

***2 REFERENCES***

Distribution of Teamwork.xlsx

<http://telerikacademy.com/Courses/Teamwork/List>

***3 INTRODUCTION***

The purpose of this document is to describe the overall test plan and strategy for testing the TALS site located at <http://stage.telerikacademy.com/>. The approach described in this document provides the framework for all testing related to this application. Individual test cases will be written for each version of the application that is released. This document will also be updated as required for each release.

The quality objectives of testing the TALS site are to ensure complete validation of the business and software requirements:

* Verify software requirements are complete and accurate
* Perform detailed test planning
* Identify testing standards and procedures that will be used on the project
* Prepare and document test scenarios and test cases
* Regression testing to validate that unchanged functionality has not been affected by changes
* Manage defect tracking process
* Provide test metrics/testing summary reports

The goals in testing this application include validating the quality, usability, reliability and performance of the application. Another goal is to make the tests repeatable for use in regression testing during the project lifecycle, and for future application upgrades. Quality software is reasonably bug-free, meets requirements and/or expectations, and is maintainable.

***4 TEST ITEMS (FUNCTIONS)***

The following is a list of the modules and items to be tested:

1. Admin - Courses and Lectures
2. Front

- Navigation between different courses

-My Courses

-Archive

***5 SOFTWARE RISK ISSUES***

Still working………………………..

* **Team member get sick and need some days to be ready for work.**
* **The project schedule is too tight; it's hard to complete this project on time**
* **Test Manager has poor management skill**
* **A lack of cooperation negatively affects your employees' productivity**
* **Wrong budget estimate and cost overruns**

***6 FEATURES TO BE TESTED***

Testing will consist of several phase (see introduction), each phase may or may not include testing of anyone or more of the following aspects of the TALS Web site (listed alphabetically):

* Accessibility
* Accuracy
* Availability
* Coding standards
* Compatibility
* Content
* Functional
* Legal
* Navigation
* Performance
* Reliability
* Scalability
* Security
* Suitability
* Usability

***7 FEATURES NOT TO BE TESTED***

It is the intent that all of the individual test cases contained in each test plan will be performed. However, if time does not permit, some of the low priority test cases may be dropped.

***8 APPROACH (STRATEGY)***

The philosophy of the testing is risk-based testing, i.e. each test case will be prioritized as, High, Medium, or Low priority and then scheduled accordingly (Highest first). Exceptions to this general rule might include instances where:

* A large number of low priority test cases can be executed using a small amount of resources;
* A lower priority test is a pre-requisite of another higher priority test - e.g. an expensive and high priority usability test might necessitate many of the inexpensive low priority navigational tests to have passed;
* Due to the lack of comprehensive requirements, navigational and functional tests may be scheduled first, so as to allow the testers the opportunity to gain familiarity with the Web site (thereby also allowing them to developing pseudo requirements).

The testing will use a combination of manual and automated testing. Automated tools:

* Selenium
* Selenium Web Driver
* Telerik Test Studio
* Another tool if it is urgently required. If some additional training is needed it should be applied in short period of time without breaking the time schedule plan.

Web site’s source code will be frozen while being tested. If critical fixes that are blocking the testing efforts arise, changes will not be scheduled while a unit of code is being tested.

Regression testing will be done during any level of testing (Unit, Integration, System, or Acceptance). The regression testing will be based on severity of defects detected - If critical fix is done all tests until the fix obtain priority High and regression testing starts.

Basic metrics will be kept for test effort (i.e. hours), test cases executed, and incidents.

***9 ITEM PASS/FAIL CRITERIA***

The user requirements define pass/fail criteria

***10 SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS***

In general, testing will only stop if the Web site Under Test (WUT) becomes unavailable. If testing is suspended due to the Web site becoming unavailable, testing will be resumed once access to the Web site is reestablished.

Certain individual test cases may be suspended, skipped or reduced if prerequisite tests have previously failed e.g. usability testing may be skipped if a significant number of Web page navigational tests fail.

***11 TEST DELIVERABLES***

The following documents will be generated as a result of these testing activities:

* Master test plan (MTP - this document)
* Individual test plans for each phase of the testing cycle (as an Appendix to the MTP)
* Combination incident/test summary reports for each phase
* Test log for each phase
* Automated test scripts and supporting test data

With the exception of the automated test scripts, all documents will be delivered as Microsoft Office 2007 documents.

***12 REMAINING TEST TASKS***

|  |  |  |
| --- | --- | --- |
| TASK | Assigned To | Status |
| Create Acceptance Test Plan | TM, PM, Client |  |
| Create System/Integration Test Plan | TM, PM, Dev. |  |
| Define Unit Test rules and Procedures | TM, PM, Dev. |  |
| Define Turnover procedures for each level | TM, Dev |  |
| Verify prototypes of Screens | Dev, Client, TM |  |
| Verify prototypes of Reports | Dev, Client, TM |  |

***13 ENVIRONMENTAL NEEDS***

**Available Client-side Environments Available**

**According requirements**

Due to a limited budget and the pressing need complete the testing phase, Giant Team has decided not to purchase any additional client-side hardware, instead Giant Team will utilize its existing set of desktop and laptop machines, which currently consists of the following machine specifications:

!" **Everyone to put his laptop Manufacturer and Model + desktop if it is available GSm**

**Desktops**

**Laptops**

**Mobile**

**Available Server-side Environments**

Exact replica of the server- side production environment will be created and maintained by client.

**Available Server-side Environments**

***14 STAFFING AND TRAINING NEEDS***

Continuously training Team Giant at each level of testing.

***15 RESPONSIBILITIES***

Biser Hristov

Blagoy Shokov

Vencislav Ivanov

Dushka Dragoeva

Plamen Kostadinov

***16 SCHEDULE***

The user requirements define schedule

***17 PLANNING RISKS AND CONTINGENCIES***

The following seeks to identify some of the more likely project risks and propose possible contingencies:

* Web site becomes unavailable – Testing will be delayed until this situation is rectified
* Web testing software is not available/does not work (e.g. Web site uses cookies and tool can not handle cookies) - This will delay the introduction of automated testing and result in more manual testing
* A large number of defects/incidents makes it functionally impossible to run all of the test cases – As many test cases as possible will be executed, The PM will ultimately make the decision as to whether the number of defects/incidents warrants delaying the implementation of the production version.
* Not enough time to complete all test cases. If time cannot be extended, individual test cases will be skipped, starting with the lowest priority.

***18 APPROVALS***

Telerik QA trainers must approve this plan

***19 GLOSSARY***

TALS – Telerik Academy Learning System