September – November 2014

Team Cloudberry

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Team Cloudberry TILS “Users” Module Test Plan

Product version: 4.1

# Version history

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| --- | --- | --- | --- | --- | --- |
| Version | Implemented By | Revision Date | Approved By | Approval Date | Reason |
| 0.1 | Cloudberry Team | 26.09.2014 | Cloudberry Team | 26.09.2014 | Initial test plan |
| 0.2 | Lyuben Hranov | 27.09.2014 | Cloudberry Team | 27.09.2014 | Formatting |
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## 1. Test Plan Identifier

The following document should be referred as TILS-USERS-STP in all documents/systems that reference it in any way.

## 2. References

No references to any documents have been identified at this point.

## 3. Introduction

This is the Section Test Plan for Telerik Integrated Learning System (TILS). This plan will address only those items and elements that are related to the User's process. The primary focus of this plan is to ensure that everything that users can do provides the expected information while allowing for improvements of the system.

## 4. Test Items

Tests for the following sub modules of the “Users” modules will be performed. Only the first sub module will be tested from the Admin point of view, while the rest will be completed from the user’s perspective:

* Users administration
* Friends
* Form of study
* Lecture materials
* Enrollment
* Registration
* Messages

## 5. Software Risk Issues

### 5.1. Risks identified

* The test environment is not under the control of the testing team and there are specific situations where this environment could not be accessible.
* The test environment is only one for several teams that work on different projects. If there is poor communication between the teams some critical to one team data could be changed or erased.
* No documentation or requirements about the project is provided, which might lead to incomplete test design.
* No access to the source code of the application, which means that white-box testing of any kind could not be performed. This does not allow Unit testing to be performed, which is an integral part of any testing process
* None of the members has any previous experience with testing a web application6. Features to be tested

### 5.2. Risk mitigation

Good communication between teams must be provided, especially during the load testing period.

Information from the development team should be acquired.

Time for learning new material should be scheduled.

### 5.3. Risk contingency

In case of problem with the test environment, technical staff should be informed as soon as possible.

## 6. Features to be tested

All of the features to be tested have been documented in our Visual Studio Online project and can be found on <https://teamcloudberry.visualstudio.com/>.

## 7. Features NOT to be tested

* Academy Everywhere feature

## 8. Approach (Strategy)

The testing will be performed by each team member, who will be responsible for separate modules of the “Users” section of the site. The exact distribution of the modules will be decided at a later point of the project.

Primarily black-box testing methodology, primarily utilizing the Boundary value analysis, Equivalence partitioning and Error guessing techniques to design the test cases.

### 8.1 Testing Levels

Only system and acceptance testing will be performed for this project, since no access to the source code of the tested system (TILS) is provided to the test team.

### 8.2 Test types

* Functional testing
* Usability testing
* Security testing
* Performance testing
* Regression testing

### 8.3 Testing Tools

The following is a preliminary set of testing tools that will be used:

* Telerik’s TeamPulse will be used as the main test management application. It will store the tasks, assignments, bugs, reports etc.
* Microsoft Test Manager for test cases description and test management.
* Telerik Test Studio for automation of tests and test management.

### 8.4. Team Meetings

The team will meet at the beginning of each week for up to an hour meeting to discuss what will be done this week and to distribute the tasks to the team members.

During the week, daily meetings up to 30 minutes will be performed on which each team member will give report on what has been performed the day before, what will be completed today and whether he/she needs any help or guidance to remove any obstacles in order to finish the task in a timely manner.

The daily meetings will be conducted in person on Mondays, Wednesdays and Fridays, when there are lectures at the Academy. On the other days, they will be performed online at a time, agreed between all of the members the day before.

### 8.5. Metrics and reports

* Bugs by module and severity.
* Defects origin.
* Defects located at higher levels that should have been caught at lower levels of testing.

## 9. Item Pass/Fail Criteria

* All highest priority test cases should be executed and passed successfully.
* At least 80% of all lower priority test cases should be executed and passed successfully.
* No security issues found.

## 10. Suspension Criteria and Resumption Requirements

* The testing process will be suspended only when there is a blocking bug identified or when the test environment is not available.
* Testing should resume as soon as the test system is functional again after a failure or maintenance or when the blocking bug has been fixed.

## 11. Test Deliverables

The following are the end results that should be presented at the end of the testing process:

* Test cases covering adequately covering the modules under test
* Automated tests that can be run during regression testing
* Proof of successfully executed test cases
* Logs of discovered bugs and other issues
* Reports on the number of defects found during testing

## 12. Remaining Test Tasks

All of the tasks that have been generated based on the user stories are kept online in our TFS project. To see the remaining tests, please go to <https://teamcloudberry.visualstudio.com/>.

## 13. Environmental Needs

The test environment is provided and maintained by the Academy.

## 14. Staffing and Training needs

The training needed to successfully complete the testing will be ongoing and provided by the Telerik’s QA Academy.

## 15. Responsibilities

The weekly project manager is responsible for test plan evolving and all documentation.

The team is responsible for test cases design and execution.

## 16. Schedule

Time will be allocated in Team Pulse management system.

The persons required for each process will be scheduled in the beginning of every weekly iteration.

Time for the following tasks will be scheduled:

* Review and update of the test plan
* Test design
* Test cases execution
* Training for the technology needed

## 17. Glossary

TILS – Telerik Integrated Learning System