QA Team “Apple”

Telerik Academy 2014

**Requirements for Evaluation & Teamwork Modules**

Version 3.0

October 30, 2014

# Table of Contents

[Table of Contents 2](#_Toc402404577)

[1. INTRODUCTION 3](#_Toc402404578)

[2. FUNCTIONAL REQUIREMENTS 3](#_Toc402404579)

[2.1. Administrator functionality 3](#_Toc402404580)

[2.1.1. Evaluation modules 3](#_Toc402404581)

[2.1.2. Teamwork modules 6](#_Toc402404582)

[2.2. User functionality 8](#_Toc402404583)

[3. TECHNICAL REQUIREMENTS 10](#_Toc402404584)

[4. ENVIRONMENT REQUIREMENTS 10](#_Toc402404585)

[5. HARDWARE REQUIREMENTS 10](#_Toc402404586)

[6. SOFTWARE QUALITIES 10](#_Toc402404587)

[7. GLOSSARY 12](#_Toc402404588)

# INTRODUCTION

This document contains the detailed requirements for testing of all “Evaluation” and “Teamwork” modules in [Telerik Academy Student System (TASS)](http://test.telerikacademy.com/).

# FUNCTIONAL REQUIREMENTS

## Administrator functionality

### Evaluation modules

|  |  |  |
| --- | --- | --- |
| *Priority* | *Requirement* | *Module* |
| *1* | *The* Admin *GUI should allow the administrator to create new practical exam information for some course, to retrieve and edit existing exam information and also to delete some exam.* | [*Practical Exams*](http://test.telerikacademy.com/Administration_Courses/CoursePracticalExams) |
| *1* | *The* Admin *GUI should allow a student to be assigned to practical exam, or some already assigned student to be deleted from the event.* |
| *1* | *The* Admin *GUI should allow calculation of the results for each one practical exam.* |
| *1* | *The* Admin *GUI should allow practical exam’s points to be transferred from* [*BGCoder*](http://bgcoder.com/) *to TASS.* |
| *3* | *The* Admin *GUI should allow all information about the practical exams to be exported to an Excel file.* |
| *4* | *The* Admin *GUI should allow the listed practical exams to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *2* | *The* Admin *GUI should allow the administrator to upload student practical exam file, to retrieve and edit some existing file upload and also to delete some uploaded file.* | [*Practical Exam Files*](http://test.telerikacademy.com/Administration_Courses/CoursePracticalExamFiles) |
| *3* | *The* Admin *GUI should allow all information about uploaded files to be exported to an Excel file.* |
| *3* | *The* Admin *GUI should allow all uploaded exam files to be exported to an archive file.* |
| *4* | *The* Admin *GUI should allow the listed practical exam files to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *1* | *The* Admin *GUI should allow the administrator to evaluate student practical exam, to retrieve and edit evaluation and also to delete some evaluation.* | [*Practical Exam Evaluations*](http://test.telerikacademy.com/Administration_Courses/CoursePracticalExamFilesEvaluations) |
| *3* | *The* Admin *GUI should allow all exam evaluations to be exported to an Excel file.* |
| *4* | *The* Admin *GUI should allow the listed practical exam evaluations to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *1* | *The* Admin *GUI should allow the administrator to create new test exam information for some course, to retrieve and edit existing exam information and also to delete some exam with all information about assigned students.* | [*Test Exams*](http://test.telerikacademy.com/Administration_Courses/CourseTestExams) |
| *1* | *The* Admin *GUI should allow a student to be assigned to test exam, or some already assigned student to be deleted from the event.* |
| *1* | *The* Admin *GUI should allow calculation of the results for each one test exam.* |
| *4* | *The* Admin *GUI should allow the listed test exams to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *2* | *The* Admin *GUI should allow the administrator to upload students records Excel file.* | [*Students Records*](http://test.telerikacademy.com/Administration_Courses/StudentsRecords) |
| *3* | *The* Admin *GUI should allow the administrator to download an already uploaded Excel file.* |
| *3* | *The* Admin *GUI should allow all information about the uploaded files to be exported in an Excel file.* |
| *3* | *The* Admin *GUI should allow the administrator to export in an Excel file the whole or part of information for student’s results from some course or group of courses.* | [*Export Results*](http://test.telerikacademy.com/Administration_Courses/ExportResults) |
| *2* | *The* Admin *GUI should allow the administrator to add bonus points to some students or group of students (from an Excel file), to retrieve and edit existing bonus information and also to delete some bonus.* | [*Bonuses*](http://test.telerikacademy.com/Administration_Courses/UsersInCoursesBonuses) |
| *3* | *The* Admin *GUI should allow all information about the given bonuses to be exported to an Excel file.* |
| *4* | *The* Admin *GUI should allow the listed bonuses information to be filtered by student course, username or bonus author.* |
| *4* | *The* Admin *GUI should allow the listed bonuses to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *2* | *The* Admin *GUI should allow the administrator to retrieve and edit existing homework evaluation information and also to delete some homework evaluation.* | [*Homework Evaluation*](http://test.telerikacademy.com/Administration_Courses/HomeworkEvaluation) |
| *3* | *The* Admin *GUI should allow all information about the evaluation to be exported to an Excel file.* |
| *4* | *The* Admin *GUI should allow the administrator to filter the listed information about the evaluation by student course, lecture and username or evaluation author.* |
| *4* | *The* Admin *GUI should allow the listed homework evaluations to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *3* | *The* Admin *GUI should allow the administrator to add student helper for some course, to retrieve and edit existing helper information and also to delete some helper.* | [*Helpers*](http://test.telerikacademy.com/Administration_Courses/UserInCourseHelpers) |
| *3* | *The* Admin *GUI should allow all information about the helpers to be exported to an Excel file.* |
| *4* | *The* Admin *GUI should allow the administrator to filter the listed information about the helpers by student course and username.* |
| *4* | *The* Admin *GUI should allow the listed helpers to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *3* | *The* Admin *GUI should allow the administrator to generate pie chart statistics for some course, lecture and student.* | [*Homework Statistics*](http://test.telerikacademy.com/Administration_Courses/HomeworkStatistics) |
| *2* | *The* Admin *GUI should allow the administrator to retrieve the existing information about the students’ homework evaluation reactions.* | [*Homework Evaluation Reactions*](http://test.telerikacademy.com/Administration_Courses/HomeworkEvaluationReactions) |
| *3* | *The* Admin *GUI should allow all information about the homework evaluation reactions to be exported to an Excel file.* |
| *4* | *The* Admin *GUI should allow the listed homework evaluation reactions to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *1* | *The* Admin *GUI should allow the administrator to add group of students for practical exam by uploading an Excel file with information about the students.* | [*Add Students for Practical Exam*](http://test.telerikacademy.com/Administration_Courses/CoursePracticalExams/AddStudents) |
| *1* | *The* Admin *GUI should allow the administrator to add group of students for test exam by uploading an Excel file with information about the students.* | [*Add Students for Test Exam*](http://test.telerikacademy.com/Administration_Courses/CourseTestExams/AddStudents) |

### Teamwork modules

|  |  |  |
| --- | --- | --- |
| *Priority* | *Requirement* | *Module* |
| *2* | *The* Admin *GUI should allow the administrator to create new teamwork for some course, to retrieve and edit existing teamwork information and also to delete some teamwork.* | [*Teamworks*](http://test.telerikacademy.com/Administration_Teamwork/Teamworks) |
| *2* | *The* Admin *GUI should allow the administrator to create new teamwork team for some teamwork, to retrieve and edit existing teamwork team information and also to delete some teamwork team.* |
| *2* | *The* Admin *GUI should allow the administrator to add some student in teamwork team, and also to delete some student from the team.* |
| *2* | *The* Admin *GUI should allow the administrator to import an Excel file with students’ teamwork evaluations.* |
| *3* | *The* Admin *GUI should allow all information about one teamwork team to be exported to an Excel file.* |
| *4* | *The* Admin *GUI should allow the listed teamwork, teamwork teams and the students in some team to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *2* | *The* Admin *GUI should allow the administrator to send suggestion for teamwork to some student, to retrieve and edit existing teamwork suggestions and also to delete teamwork suggestion.* | [*Team Member Suggestions*](http://test.telerikacademy.com/Administration_Teamwork/TeamMemberSuggestions) |
| *3* | *The* Admin *GUI should allow all information about teamwork suggestions to be exported to an Excel file.* |
| *4* | *The* Admin *GUI should allow the listed teamwork suggestions to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *2* | *The* Admin *GUI should allow the administrator to import teams for some teamwork and to add students to them by uploading an Excel file with information about the students.* | [*Import Teams*](http://test.telerikacademy.com/Administration_Teamwork/ImportTeams) |
| *2* | *The* Admin *GUI should allow the administrator to create new teamwork type, to retrieve and edit existing teamwork type information and also to delete some teamwork type.* | [*Team Name Suggestion*](http://test.telerikacademy.com/Administration_Teamwork/TeamNameSuggestions) |
| *2* | *The* Admin *GUI should allow the administrator to create new teamwork team name for some teamwork type, to retrieve and edit existing teamwork team name information and also to delete some teamwork team name.* |
| *3* | *The* Admin *GUI should allow all team names for some teamwork type to be exported to an Excel file.* |
| *4* | *The* Admin *GUI should allow the listed teamwork types and names to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *2* | *The* Admin *GUI should allow the administrator to import a list with teamwork team names by uploading an Excel file.* | [*Import Team Names*](http://test.telerikacademy.com/Administration_Teamwork/TeamNameSuggestions/ImportTeamNameSuggestions) |
| *2* | *The* Admin *GUI should allow the administrator to evaluate student teamwork, to retrieve and edit existing teamwork evaluation and also to delete some teamwork evaluation.* | [*Team Member Evaluations*](http://test.telerikacademy.com/Administration_Teamwork/TeamMemberEvaluations) |
| *3* | *The* Admin *GUI should allow the administrator to evaluate group of students by uploading one or group of Excel files.* |
| *4* | *The* Admin *GUI should allow the listed teamwork evaluations to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |
| *2* | *The* Admin *GUI should allow the administrator to evaluate and comment some student teamwork, to retrieve and edit existing teamwork evaluation and also to delete some teamwork evaluation.* | [*Team Member All Evaluations*](http://test.telerikacademy.com/Administration_Teamwork/TeamMemberAllEvaluations) |
| *3* | *The* Admin *GUI should allow the administrator to evaluate group of students by uploading one or group of Excel files.* |
| *3* | *The* Admin *GUI should allow all teamwork evaluations to be exported to an Excel file.* |
| *4* | *The* Admin *GUI should allow the listed teamwork evaluations to be grouped by column (by drag-dropping some column header). Also the grouping should be possible to be removed later.* |

## User functionality

|  |  |  |
| --- | --- | --- |
| *Priority* | *Requirement* | *Area* |
| *1* | *The UI should allow the normal user to upload some homework (or teamwork) as archive file via course page.* | *Homework (Teamwork) Upload* |
| *1* | *The UI should allow the normal user to re-upload some homework (or teamwork) as archive file via course page.* |
| *2* | *The UI should allow the normal user to download the last uploaded homework (or teamwork) file via course page.* |
| *1* | *The UI should allow the normal user to evaluate and comment the homework (or teamwork) of some other student via course page.* | *Homework Evaluation* |
| *2* | *The UI should allow the normal user to access the comments for his uploaded homework (or teamwork) via course page.* | *Homework Comments & Grading* |
| *2* | *The UI should allow the normal user to evaluate the helpfulness of the comment to his uploaded homework (or teamwork) via course page.* |
| *1* | *The UI should allow the normal user to sign-up and choose date for practical and test exam.* | *Exam Sign-up* |
| *1* | *The UI should allow the normal user to upload some practical exam as archive file.* | *Exam Upload* |
| *1* | *The UI should allow the normal user to re-upload some practical exam as archive file.* |
| *2* | *The UI should allow the normal user to download the last uploaded practical exam file.* |
| *1* | *The UI should allow the normal user to evaluate and comment the practical exam of some other student.* | *Exam Evaluation* |
| *1* | *The UI should allow the normal user to check practical and test exam results from his personal information page.* | *Exam Results* |
| *1* | *The UI should allow the normal user to sign-up for teamwork.* | *Teamwork Sign-up* |
| *3* | *The UI should allow the normal user to change his choice for participating in the teamwork.* |
| *2* | *The UI should allow the normal user to evaluate and comment some teammate from the list with teamwork.* | *Teammate Grading* |
| *2* | *The UI should allow the normal user to check the final teamwork scores from the list with teamwork.* |

# TECHNICAL REQUIREMENTS

* Anti-cheat security
* Score data alteration security
* Precise estimation of exam result and course total score

# ENVIRONMENT REQUIREMENTS

* Administrator access
* Server internet access

# HARDWARE REQUIREMENTS

* Server reliability

# SOFTWARE QUALITIES

* **User-friendliness** – since users of the TASS will be of all sorts and types and not all of them will be very experienced with computers, it is essential that the application be as user-friendly as possible.
* **Correctness** – because “Telerik, Inc.” is investing a lot of time and money in the TASS, it is imperative that the TASS performs correctly and does not print incorrect information about paintings.
* **Reliability** – reliability of the TASS is not expected to be essential, but nonetheless important. Accepted rate of failure is 1 crash per fortnight.
* **Performance** – it is highly essential that the TASS application runs efficiently. Any request should not take more than 5 seconds.
* **Reusability** – reusability will not be important in this application.
* **Extensibility** – over time the system will be enhanced with small features, therefore the application should be extensible.
* **Robustness** – it is expected that the TASS application does not crash if a user inputs wrong data or makes mistakes or if links are broken.
* **Maintainability** – “Telerik, Inc.” expects that the TASS will be used by different kinds of users over varying periods of time. Routine maintenance may be necessary at times; hence the system should be easily maintainable.
* **Reparability** – since it is possible that the application may not be fault-free, TASS application should be designed and implemented such that it can be easily repaired in the future.
* **Safety** – the TASS is not a critical application that can affect society at large and therefore there is not much concern about safety of the application.
* **Understandability** – to support evolvability, reparability, and maintainability, it is imperative that all aspects of the TASS (design, code and test cases) be easily understandable, even to future developers who are not currently involved in the creation of the TASS.
* **Interoperability** – since the TASS does not have to interoperate with any other software, interoperability is not a concern.
* **Productivity** – productivity is not of a concern for the TASS.
* **Visibility** – visibility is not a concern in the development of the TASS

# GLOSSARY

* **Telerik Academy Student System (TASS)** – a student system developed for the purpose of training at the Academy of Telerik.
* **User** – a student in Telerik Academy.
* **Admin GUI** – it is used for all administration related functionality like giving user roles, creating and deleting of courses, lectures, exams and teamwork, assigning students to them, practical exam and test evaluations, bonuses, anti-cheat, certificates, etc.
* **UI** – the interface between the end-user of an application and the software behind it.

