QA Team “Apple”

Telerik Academy 2014

**Requirements for Evaluation & Teamwork Modules**

Version 3.0

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# 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 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 GUI should allow a student to be assigned to practical exam, or some already assigned student to be deleted from the event.* |
| *1* | *The GUI should allow calculation of the results for each one practical exam.* |
| *1* | *The GUI should allow practical exam’s points to be transferred from* [*BGCoder*](http://bgcoder.com/) *to TASS.* |
| *3* | *The GUI should allow all information about the practical exams to be exported to an Excel file.* |
| *4* | *The 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 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 GUI should allow all information about uploaded files to be exported to an Excel file.* |
| *3* | *The GUI should allow all uploaded exam files to be exported to an archive file.* |
| *4* | *The 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 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 GUI should allow all exam evaluations to be exported to an Excel file.* |
| *4* | *The 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 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 GUI should allow a student to be assigned to test exam, or some already assigned student to be deleted from the event.* |
| *1* | *The GUI should allow calculation of the results for each one test exam.* |
| *4* | *The 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 GUI should allow the administrator to upload students records Excel file.* | [*Students Records*](http://test.telerikacademy.com/Administration_Courses/StudentsRecords) |
| *3* | *The GUI should allow the administrator to download an already uploaded Excel file.* |
| *3* | *The GUI should allow all information about the uploaded files to be exported in an Excel file.* |
| *3* | *The 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 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 GUI should allow all information about the given bonuses to be exported to an Excel file.* |
| *4* | *The GUI should allow the listed bonuses information to be filtered by student course, username or bonus author.* |
| *4* | *The 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 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 GUI should allow all information about the evaluation to be exported to an Excel file.* |
| *4* | *The GUI should allow the administrator to filter the listed information about the evaluation by student course, lecture and username or evaluation author.* |
| *4* | *The 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 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 GUI should allow all information about the helpers to be exported to an Excel file.* |
| *4* | *The GUI should allow the administrator to filter the listed information about the helpers by student course and username.* |
| *4* | *The 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 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 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 GUI should allow all information about the homework evaluation reactions to be exported to an Excel file.* |
| *4* | *The 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 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 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 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 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 GUI should allow the administrator to add some student in teamwork team, and also to delete some student from the team.* |
| *2* | *The GUI should allow the administrator to import an Excel file with students’ teamwork evaluations.* |
| *3* | *The GUI should allow all information about one teamwork team to be exported to an Excel file.* |
| *4* | *The 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 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 GUI should allow all information about teamwork suggestions to be exported to an Excel file.* |
| *4* | *The 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 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 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 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 GUI should allow all team names for some teamwork type to be exported to an Excel file.* |
| *4* | *The 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.* |
| *1* |  | [*Import Team Names*](http://test.telerikacademy.com/Administration_Teamwork/TeamNameSuggestions/ImportTeamNameSuggestions) |
| *1* |  |
| *1* | *Evaluate student* | [*Team Member Evaluations*](http://test.telerikacademy.com/Administration_Teamwork/TeamMemberEvaluations) |
| *1* |  |
| *1* |  |
| *1* | *Check teamwork evaluations* | [*Team Member All Evaluations*](http://test.telerikacademy.com/Administration_Teamwork/TeamMemberAllEvaluations) |
| *1* |  |
| *1* |  |

## User functionality

|  |  |  |
| --- | --- | --- |
| *Priority* | *Requirement* | *Page* |
| *1* | *Upload homework (teamwork)* | *HW* |
| *1* | *Re-upload homework (teamwork)* |
| *1* | *Download the last uploaded homework (teamwork)* |
| *1* | *Homework evaluation* | *Evaluate* |
| *1* | *Evaluate the helpfulness of the comment* | *Homework Comments and Grading* |
| *1* | *Access to comments for homework evaluations* |
| *1* | *Sign-up for exam* | *…*  *(Exam)* |
| *1* | *Upload / Re-upload exam* |
| *1* | *Download the last uploaded exam* |
| *1* | *Exam evaluation* |
| *1* | *Check Exam Results / Exam Peer Review* |
| *1* | *From the GUI the user should be able to sign-up for teamwork.* | *Any page* |
| *2* | *From the GUI the user should be able to change his choice for participating in the teamwork.* |
| *2* | *The user should be able to evaluate and comment some teammate.* | [*Teamwork List*](http://test.telerikacademy.com/Courses/Teamwork/List) |
| *3* | *The user should be able to check the final teamwork scores.* |

# 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

