ProTeach System

1.   Introduction

The ProTeach will be designed for teaching institutions to enable their staff easy, simple and fast examination of students. The system will provide teachers intuitive interface for creating the exams and provide information to keep up students status and advancement. Statistics can point them out which questions are hardest and which part of subject needs better attention. On the other side students will have instant results from their exams and more insight in their knowledge gaps. The system can be used for homework and that allow teacher to understand which part of the lesson it was clear (by statistics).

Everything will be stored online so both sides can use at any time. Students and teachers would not need to make appointments for checking exam results and mistakes, everything can be easily accessed using web browser. There is also advantage in removing usage of the paper and storage space.

2.   Positioning

2.1   Problem Statement

The problem of	Management for homework and exams in the education sector.
	Simplifying the teacher's work and allow them to have statistic of the exams/homework, so he can improve the teaching.
	Decrease storage of exams and homework caused by paper.
affects	● Teachers ● Students ● Administration personnel
the impact of which is	Teachers usually spend to much time correcting same question repeatedly. During this process it is hard to keep track on quality statistics. Poor statistics do not allow teachers to improve theirs knowledge transfer and teaching process stays the same. Teachers (or in any case the institution) also have to store the exams for a certain period of time, and send the grade for each student in some way, and this can take a while.
a successful solution would be	● save teacher's time by removing process of correcting ● removing use of paper and storage

	- offer useful statistics for the teachers - offer better insight into errors for students - instant result for students and teachers - decrease cost of toner and print - the teacher avoids errors in the correction

2.2 Product Position Statement

For	University, school and private teacher
Who	The education institute that want a software system that improve the efficiency and provide extra information to the teachers.
The ProTeach system	It is a client-server system and it's an exams management system.
That	By simplifying the work for the teacher, avoid correcting error of the test and help the teacher to improve the explanations at the lesson by statistics. The teacher by a user-friendly interface can easily and quickly create a test. The education institute decrease the cost of printer, toner and paper. Moreover the students can to do homework everywhere, they need only a smart-phone or computer and students have instant results from their exams or homework. Students and teachers would not need to make appointments for checking exam results and mistakes.
Unlike	Other similar systems are often complex with many options then create confusion and the teacher spend too much time for create a test. The other system in general are not optimization for education, they include too much different areas. Some concurrent don't have a statistics service. For example: Moodle, www.proprofs.com , www.poll-maker.com
Our product	The system will help the teacher to process to evaluate students more easy and quickly by a system optimization for education and a user-friendly interface. Moreover the system can provide a comprehensive statistics.

3.   Stakeholder Descriptions

3.1   Stakeholder Summary

Name	Description	Responsibilities
Teaching institutions	Who order the system and will pay for it.	● Define requirements ● Pay for the system ● Monitoring development of the system ● Ask for deadlines
Development team	Group of person responsible for system development and maintenance.	● Understand system requirements ● Define system development life-cycle ● Design, implement and test the system ● Keep update teaching institution during the development. ● After system delivery fix bugs, add new functionality (if needed) and train the staff.

3.2   User Summary

Name	Description	Responsibilities
Teacher	People who need the system to create and manage exams.	● Use the system to manage exams ● Manage students in the courses ● See statistic about courses to manage activities ● Report issue
Student	People who want attend the test.	● Use the system to do an exams ● Find courses and enroll ● Manage their career ● Report issues

Administrator	The person or group of person from dean's office that uses the system to supervise.	● Use the system ● Handle unexpected situations and report them ● Report issue ● Suggest new functionalities to development team

4. **Product Overview**

4.1 **Needs and Features**

Need	Priority	Features	Planned Release
Management of tests (teacher side)	high	Module to allow teachers to create, evaluate and manage their tests/homework.	Release 1
Management of test (student side)	high	Module to allow student to do a test/homework.	Release 1
Assignment of course	high	Module to allow Administrator to create a new teacher user, a new course and bind teacher with course.	Release 1
Statistic report (teacher side)	medium	Module to allow teacher to see some statistic parameter about the test/homework. For example the most repeatedly wrong question, or average time needed to take the test.	Release 1

Statistic report (student side)	low	Module to allow student to see some statistic parameter about his/her career. For example the average of degree. How many test/homework he/she pass or fail.	Release 1
Enrolment module (student side)	medium	Module to allow students to look for a course and enroll him/her self to it.	Release 1
Enrolment module (teacher side)	medium	Module to allow teachers to confirm the enrollment of a student.	Release 1
Career management	low	Module to allow administrator to manage the career of the students. For example the administrator can see which tests the student give and the relative grade.	Release 1

5. **Non-functional Product Requirements**

Requirement	Priority	Planned Release
The software should be easy to operate and requires a low level of support for the system users.	high	release 1
Allow system to handle a huge number of student at the same time	low	release 1
A web interface for mobile devices	low	release 2

System security – users can access only the system functions they've been given clearance for (for example, the student can't have access to the module for teacher or administrator)	critical	release 1
System backup and recovery – all services can be made available after the system crash within 1 day. All data will be backed up daily.	very high	release 1