



Software Engineering

Learning management system

Team

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Introduction

Audience of the system

TA: Mostafa Saad

Software Purpose

1 .The purpose of the project "learning management system" is to build website that has a basic education course features (Doctor, TA, Student, Course, and Assignment)

In additional to:

Allowing the assignment to be of two types: programming or textual.

1. Make the education process easier to the doctor and student.
2. Applying messaging service in the website.

Software Scope

1. Manage educational courses and the system has 5 tiers (Doctor, Teaching ,TA Student, Course, Assignment).
2. The system allows to the doctor to creates the course and send invitations to TAs
3. Each course has password and student register in it using password from the doctor.
4. Messaging is allowed between all actors of the system.
5. The website page will consist of 3 taps (Info, board and tasks)
6. Tasks are an Assignment contains 2 types: Programming and textual assignments.
7. For programming assignments, system put will put the grade as numbers of passed cases over total cases.
8. For textual assignments, TAs must evaluate and put grade to students.
9. Doctors will be able to extract grades report for registered students.

Definitions

\_ Programming assignment:

Doctor creates programming assignment with deadline for student to meet and attaches document to describe assignment, then student will submit a programming file using an available language (e.g. c ++, c# and java), student in time submit will know if his code is perfect or not and

how many cases he passed.

\_textual assignment:

Assignments that doctor creates with deadline for students to meet, doctors attaches document to describe assignment, then student should prepare a file that contains his answer and upload it before deadline.

Acronyms

TA

Refer to: Teacher assistant

Requirements

Functional Requirements

Function 1:

Descriptions: Doctor creates a course and sends invitations to TAs.

Input:

1. Enter course name, password, and other details.
2. Enter all mails of the TAs, and the invitation message that will send to them.

Processing: saving the course, and sending invitations to all TAs.

Output: success, or failed ------------------------------------------------------------------------------- Function 2:

Description: student views a list of courses and register for one using a password taken from the doctor.

Input: select course and enter the password, and some info about his such as name, email, address...

Processing: check the password valid or not, and if valid save the person for this course.

Output: success or failed

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Function 3:

Descriptions: Doctor creates an assignment (Textual or programming assignment) with a deadline for students to meet.

Input:

1. attaches a document that describes the assignment (in case textual assignment).
2. attaches a document that describes the assignment with input and output format (in case programming assignment).
3. Determine the course where the assignment attached to.
4. Enter a deadline for the assignment.

Processing: saving the document with deadline for the course.

Output: success, or failed

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Function 4:

Description: Student should prepare a file that contains his answer and upload it before deadline.

Input: upload assignment answer document and the course number where the assignment makes for it.

Processing: check if the uploading date less than the deadline or not.

Output: success or failed because out of deadline.

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Function 5:

Description: Student submit 1 programming file using an available language (e.g. C++ / Java), and the code must respect to the input / output format or it will fail.

Input: upload file contain code represents his answer, and the course number where the assignment make for it.

Processing: 1-the system check if the uploading date less than the deadline or not.

2-the system know if the code is perfect or not.

3-the system put grade as number of passed cases.

Output: success or failed

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Function 6:

Description: Doctor can be able to extract grades report for registered students.

Input: enter student name, id, and coursed.

Processing: search about the student using name, id, coursed, and if exists return his grades.

Output: student grades or student not exists.

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