



Software Engineering-1

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Learning Management System

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SRS for Learning management system

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Document Purpose and Audience

This document illustrate the scope of learning management system and some of its functional requirements

It is intended for all TAs specially “Mostafa Saad” and Dr.Mohammed El-Ramly

Introduction

Software Scope

It makes the operation of communication between Doctors ,TAs and students more easier .Its software made to facilitate the educational operation, break time barrier.

It will make the operation of grading more fairly and clearly.

Software Purpose

This software will be a learning management system for doctors, TAs and students. This system has a message service which allow you to send and receive messages among course staff. Doctor can create assignment in two types (textual or programming) assignment. The system marking the programming assignment by using ONLINE JUDGE. This system help doctor to upload course materials and reminder the students about the deadline. It will be a board for asking, commenting , and notification for uploaded materials.

Requirements

Functional Requirements

This system should do the following:

1.signup

Has three categories :-

- Sign up as a Doctor
- Sign up as a TA
- Sign up as a student

To save your information in the database of the site you should enter your first name , last name , email , and password.

2.Login

The system allows you to enter user name and password and check if they are correct or not if not it will ask you to reenter your user name and password again if it correct it will redirect you to your section “Doctor section, TA section , Student section”.

3.Profile

This field contain user information such as his name , date of birth ,gender , country, biography , education ,and projects and can edit it .

4.change information

You can change your name, password, picture, mobile ,and Email.

5.my courses

This field has all courses that students enrolled on .

Every course has :

- Board : Doctors can post an announcement for their courses his student can comment on this posts ,any student can ask questions .
- Resources : this tab will has course lectures , labs , and assignments .
- Task : description of assignment and time submission .
- Info : it has course details such as name , code , description , start /end date of the course , and course hours.
- Notifications : it will show any thing change in your tabs .

6.create course: doctors can create course and give this course password or code.

7.upload materials : Doctors and TAs can upload materials for students

8.message services: students, doctors, and TAs can communicate with each other.

9.Assignments

When the student come to submit an assignment the web site will check for the deadline if the of assignment is finish the site will ignore this submit else it will be accepted .

In case it accepted the site will check if it textual or programming

- Textual

TAs will download ,marked , and upload the result

- Programming

When the student come to submit a programming assignment he will choose between C++ or java there will be something like online judgment which will enter some of test cases and will show you that your program is correct or not if it not it will give a feedback about error type “syntax error, run time error ,and logical error”.

10.search

This feature allow you to search about course ,doctor, TA ,and college .

11.Send invitation

- Doctors can invite TAs and students to their courses.
- TAs can invite Students and other TAs .
- Students can invite students.

12 Logout

Users can get out from the site and go to the main page of the site.

Non Functional Requirements

1.Usability

it will be easy to use for users for more usability it will be multi language site. Each feature will be clearly.

2.Interface

The site interface should be easy and comfortable for user to use.

3.Secuirty

For user's information security the system will allow user to insert the user name and password for three times, in case their all wrong the site will blocking login and send an email to the registered email with a link to reset password.

Using firewall to protect the site from hackers.

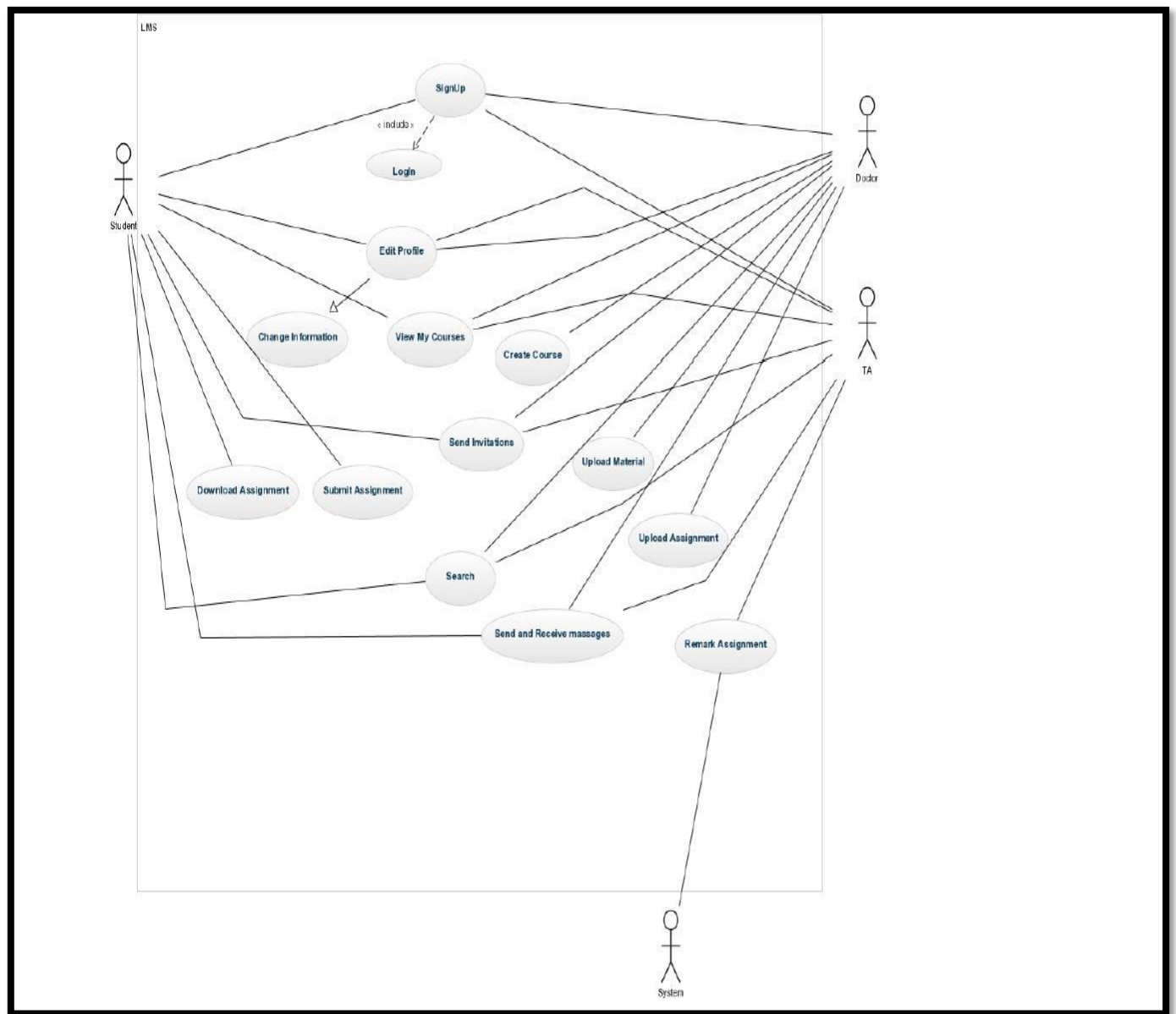
4.performance

The site will use secure and speed domain to make moving in the site easier "maximum five second to redirect you to your choice".

When student submit an assignment it will be speedily marking and get back result correctly "it will take two second for each test case the doctor will mention with each assignment it's test cases".

The quality of the service won't be affected by speedily service.

Use Case



Use Case Tables

Use Case Name:	Signup	
Actors:	Doctors ,TAs , and students	
Pre-conditions:	User will use any browser to enter the site	
Post-conditions:	Site save the user's information in database of the site	
Flow of events:	User Action	System Action
	1- User will enter his user name ,password , and email	
		2-System will check the user data and notify if data isn't correct
	3-User will submit his information	
		4-if there isn't any errors in user's data then it will accepted.
		5-Site will print a successful message
Exceptions:		
Includes:	Login	
Notes and Issues:		

Use Case Name:	Login
Actors:	Doctors ,TAs , and students

Pre-conditions:	Must sign up first	
Post-conditions:	Can do all features in the site	
Flow of events:	User Action	System Action
	1- User enter his user name and ,password .	
		2-Site verify user data
	3-User can use any feature	
		4-Site will redirect user to the feature which has he chosen
Exceptions:	Site won't accept wrong user name or password.	
Includes:		
Notes and Issues:		

Use Case Name:	Send invitations	
Actors:	Doctors	
Pre-conditions:	Must login first	
Post-conditions:	Allow doctors to send invitations to TAs	
Flow of events:	User Action	System Action
	1- Doctor will choose TAs that he want to work with him	
		2-System will check that it has that TAs in database of the site
	3-Doctor will reenter the name of TAs if the pervious one was wrong.	
		4-site will print successful message

Exceptions:	TAs doesn't exist in database	
Includes:		
Notes and Issues:		

Use Case Name:	Create course	
Actors:	Doctors	
Pre-conditions:	Must login first.	
Post-conditions:	Course will be available for students to use it	
Flow of events:	User Action	System Action
	1-Doctor will enter course name and code.	
		2-System will check if the course name is exist in database or not
	3-Doctor will write description about course	
		4-System will print successful message
	5-doctors will invite TAs and send course code to students.	
Exceptions:	Course code or name is not available	
Includes:		
Notes and Issues:		
Use Case Name:	Assignments	
Actors:	Doctors ,TAs , student, and system	
Pre-conditions:	Must login first	

Post-conditions:	Doctor can create assignments, students can submit their answers , system and TAs can remark assignments	
Flow of events:	User Action	System Action
	1-Doctors will create an assignments, and set a deadline.	
		2-System will upload assignments to students
	3-Studets will submit their answers before deadline.	
		4-The site will send answer to system to be remarking.
Exceptions:	Student send assignments after deadline,	
Includes:		
Notes and Issues:		

Use Case Name:	Upload materials	
Actors:	Doctors ,and TAs	
Pre-conditions:	User must login first.	
Post-conditions:	Doctors and TAs can upload labs, lectures and videos to students.	
Flow of events:	User Action	System Action
	1- Doctors will upload materials	
		2-System will print a successful message
	3-Students will download materials	
		4-Sytem will access this operation to students

Exceptions:	Materials can't duplicate.	
Includes:		
Notes and Issues:		

Use Case Name:	Search	
Actors:	Doctors ,TAs , and students	
Pre-conditions:	Enter the site first.	
Post-conditions:	You can search about anything in site	
Flow of events:	User Action	System Action
	1- User will name something search about it.	
		2-System will search about the user's key all over the site.
	3-User can browse the result.	
Exceptions:	The key that user mentioned is wrong.	
Includes:		
Notes and Issues:		

Use Case Name:	View my courses
Actors:	Doctors ,TAs , and students

Pre-conditions:	Must login first.	
Post-conditions:	User can browse his courses that he enrolled on.	
Flow of events:	User Action	System Action
	1- User will choose the course that he want.	
		2-System will open this course
	3-User will browse the course that he chose	
Exceptions:		
Includes:		
Notes and Issues:		

Use Case Name:	Send and receive message.	
Actors:	Doctors ,TAs , and students	
Pre-conditions:	Must login first	
Post-conditions:	Send and receive messages among users	
Flow of events:	User Action	System Action
	1- User will choose the tab of messages	
		2-System open tab.
	3-User choose the another person that he want to communicate with him	
		4-the site will make conversation

		between this two users
Exceptions:	Message must contain subject.	
Includes:		
Notes and Issues:		

Use Case Name:	Edit profile	
Actors:	Doctors ,TAs , and students	
Pre-conditions:	Must login first	
Post-conditions:	Allows user to edit his information.	
Flow of events:	User Action	System Action
	1- User will enter to his profile	
		2-System will open the user profile
	3-User will change anything he want	
		4-system will verify this changes
Exceptions:		
Includes:		
Notes and Issues:		

Use Case Name:	Logout
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Actors:	Doctors ,TAs , and students	
Pre-conditions:	Must login first	
Post-conditions:	Get out from the site	
Flow of events:	User Action	System Action
	1- User will choose logout tab	
		2-System will go to main page of the site
Exceptions:		
Includes:		
Notes and Issues:		