Faculty of Science and Technology

Project Report

Title:	Online Exam	Online Exam Management System			
Group Name:	Gliders		Date of Submission:	24 March 2022	
Course Title:	Advance Da	Advance Database Management System			
Course Code:	CSC4181		Section:	С	
Semester:	Spring	2022-23	Course Teacher:	Rezwan Ahmed	

Declaration and Statement of Authorship:

- 1. I/we hold a copy of this Assignment/Case-Study, which can be produced if the original is lost/damaged.
- 2. This Assignment/Case-Study is my/our original work and no part of it has been copied from any other student's work or from any other source except where due acknowledgement is made.
- 3. No part of this Assignment/Case-Study has been written for me/us by any other person except where such collaboration has been authorized by the concerned teacher and is clearly acknowledged in the assignment.
- 4. I/we have not previously submitted or currently submitting this work for any other course/unit.
- 5. This work may be reproduced, communicated, compared and archived for the purpose of detecting plagiarism.
- 6. I/we give permission for a copy of my/our marked work to be retained by the faculty for review and comparison, including review by external examiners.
- 7. I/we understand that Plagiarism is the presentation of the work, idea or creation of another person as though it is your own. It is a formofcheatingandisaveryseriousacademicoffencethatmayleadtoexpulsionfromtheUniversity. Plagiarized material can be drawn from, and presented in, written, graphic and visual form, including electronic data, and oral presentations. Plagiarism occurs when the origin of them arterial used is not appropriately cited.
- 8. I/we also understand that enabling plagiarism is the act of assisting or allowing another person to plagiarize or to copy my/our work.
- * Student(s) must complete all details except the faculty use part.
- * Please submit all assignments to your course teacher or the office of the concerned teacher.

Group Name/No.:

No	Name	ID	Program	Signature
1	Rahat, Md Mohibor Rahman	19-39517-1	BSc [CSE]	
2	Moni, Khuko	19-39501-1	BSc [CSE]	
3				
4				
5				
6				
7				
8				
9				
10				

Faculty use only		
FACULTYCOMMENTS		
	Marks Obtained	
	Total Marks	
	TOLAT MATES	

Table of Contents

No	Topic	Page No
01	System Summary	03
02	ERD Diagram	04
03	Class Diagram of the System	05
04	Use Case Diagrams of the System	
05	Activity Diagrams of the System	
06	A Database Schema Diagram	
07	Sample Data	06 - 07
08	Questions for Query and Solve	
09	UI Design (Login and Registration Functionality Implementation)	

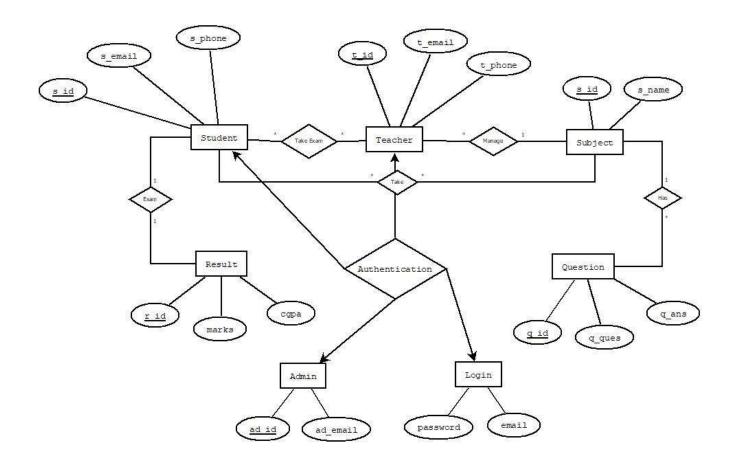
System Summary

This System is about an Online Exam Management System. Where there are mainly three types of users (Admin, Teacher & Student). In this system these users will be able to manage all the events regrading online examinations. The main two users (Teachers and Students) will be able to register to the system using a registration form but they won't be able to login to the system unless an admin approves the regarding user. After getting the approval from an admin the users will be able to login as the user type they were permitted to. After login the teachers will be able to schedule an exam, create/delete/edit questions and answers and also check results. The student users will be able to give the exam and also check their marks after finishing the exam. Admins will have the authority to check marks/ schedules/user information and also approve or delete any user. This whole project is online based.

ERD Diagram

Scenario:

- 1. Each admin has a unique admin id.
- 2. Each teacher has a unique teacher id, teacher name, email, and phone number.
- 3. Each student has a unique student id, student name, email, and phone number.
- 4. Teacher manages subject & takes exam of students. And student takes subject. Each Subject has a name and unique subject id. A student can take more than one subjects.
- 5. A question can have many answers. Question is identified by question id & it has question value also.
- 6. Teacher takes exams & students take part in exam. Different exam happens for different subjects. For each student, exam has different results. Each result has unique string id and value.

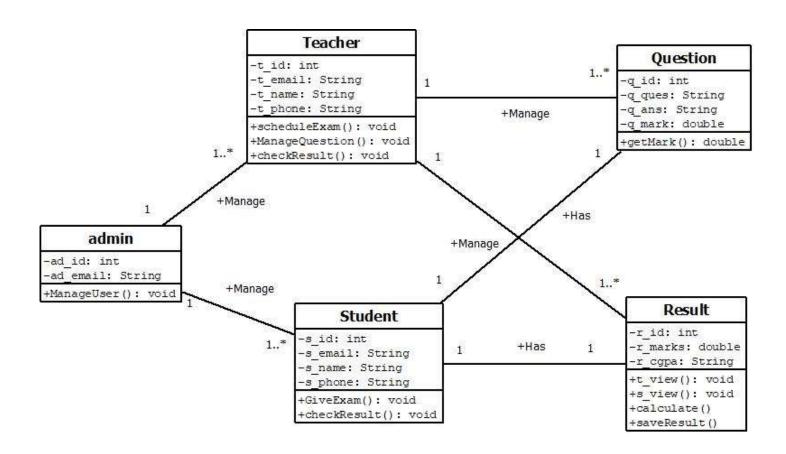


Class Diagram

Scenario:

There are five classes in our system which are Admin, Student, Teacher, Question and Result.

- 1. Admin has their id which is integer and their name which is string both of them are private. In admin class admin id is the primary key. In the admin class there are only one operation which is manage user which return type is void. Admins can approve and modify users if necessary through this function.
- 2. Student class has their own student id, email, and name and phone number. A student has two operations which are give exam, and check result.
- 3. Teacher class has their own teacher id, email, and name and phone number. A teacher has three operations which are schedule exam, manage question and manage result.
- 4. Question class has its own question id, questions, answers and marks related to the questions. It has only one operation to return marks which return type is double.
- 5. Result class has result id, marks and cgpa where there are four functions for teacher and student separate result view, calculate result and save result.



Sample Data

Admin Table:

AD_ID	AD_EMAIL	AD_PASSWORD
1000	admin@system.in	password

Student Table:

S_ID	S_NAME	S_EMAIL	S_PHONE	S_PASSWORD
1000	Md. Mohibor Rahman Rahat	mohibor@gmail.com	01760761659	password
1010	Khuko Moni	khuko0@gmail.com	01360761659	password
1020	Md. Tanvir Alam Niloy	tniloy0@gmail.com	01533995600	password
1030	Rubayed Noor Shahriar	rubayed@gmail.com	01999944600	password
1040	Munem Al Shahriar	munem26@gmail.com	01533107746	password

Teacher Table:

T_ID	T_NAME	T_EMAIL	T_PHONE	T_PASSWORD
1050	Rezwan Ahmed	a.rezwan@aiub.edu	01312479154	password
1060	Razib Hayat Khan	razib.hayat@aiub.edu	01845613549	password
1070	Rifat Tasnim Anannya	rifat.tasnim@aiub.edu	01456128795	password
1080	Abir Ahmed	abir.ahmed@aiub.edu	01521432942	password
1090	Dr. Md. Mehedi Hasan	mmhasan@aiub.edu	01933340635	password

Result Table:

R_ID	R_MARKS	R_CGPA
101	90	4
102	85	3.75
103	80	3.5
104	75	3.25
105	70	3
106	65	2.75
107	60	2.5
108	50	2.25
109	72	3
110	77	3.25

Question Table

Q_ID	Q_QUES	Q_ANS	Q_MARKS
3000	What's the full form of DBMS?	Database Management System	10
3001	What's the full form of RDBMS?	Relational Database Management System	10
3002	What are the types of normalization in database?	1NF, 2NF, 3NF	10
3003	What's the full form of DDL?	Data Definition Language	10
3004	What's the full form of DML?	Data Manipulation Language	10
3005	The correct relation between the radius of curvature R and focal length f of a spherical mirror is -?	R = 2f	20
3006	The instrument used for detecting the presence of electric current in a circuit is -?	Galvanometer	20
3007	Which one of the following was the first mineral acid discovered?	Sulphuric acid	20
3008	What types of radiations has the smallest wavelength?	X-rays	20
3009	In an incandescent electric bulb, the filament of the bulb is made up of which metal?	Tungsten	20
More tha	an 10 rows available. Increase rows selector to view more rows.		

Questions for Query and Solve

Questions:

- 1. Display all the students name and phone number only.
- 2. Write a query using join to find the teacher's id and the questions they created on it; group by subject.
- 3. Make teacher id unique.
- 4. Make student email unique.
- 5. Show all the results obtained by a student.