

E-EXAM ONLINE SYSTEM

ABSTRACT

Requirements, Technologies used, Screenshots and some diagrams of e-exam system

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E-Exam Requirements

Introduction:

- This Web Application provides facility to manage online examination worldwide...
- It saves time and effort as it allows the number of students to give the exam at a time and displays the results after finishing the test, it is automatically generated by the server.
- professor has a privilege to create, modify and delete the test papers and its particular questions.
- Users can register, login, and give the test with his specific id and password, and can see the results as well.

Overview

E-Exam is a System for students to get their exams online.

- The admin is responsible for adding and editing subjects and professors and make an approval for the professors.
- Professors prepare for their subjects' exams with adding and editing questions and identifying the correct answer and the level of difficulty for each question.
- **Students** take the exam with different random questions and the results are stored to be shown for the student.

Types of Users

- 1. Admin: is basically a professor with Administrating Authentications.
- 2. **Professor**: is responsible for The Structure of the Exam and its content.
- 3. **Student**: takes the Exam and then directly notified with his own result.

1. Admin

- 1. Adding and Editing the Levels and Departments of the Faculty.
- 2. Adding and Editing the Subjects of each level and department.
- 3. View the List of The Professors, and Approve the Sign-up Requests.
- 4. Specifies the subjects for each professor.
- 5. All Privileges of the Professor.

2. Professor

- 1. Adding and Editing Chapters for each Subject that he teaches and detect the number of questions of each Chapter
- 2. Organizing the structure of the exam.
- 3. Determine the allowed time for finishing the exam.
- 4. Adding and Editing Questions and Identify the Correct answer, and those Questions should be published for the students as a Questions Bank.

3. Student

- 1. Sign-Up and Select his Level and Department.
- 2. Sign-in and Select the Subject to start his Exam
- 3. Finish the Exam, submit it and show the Result and the Previous Exams' Results.

The Structure of the Exam

- 1. The types of Question are MCQ and True & False.
- 2. The Students Specifies type of Exam before start exam where:

As there are 3 exam options available for the student to choose between

- Final: Contain 60 questions mixed between MCQ and T&F in time 3 hour.
- Training: Contain 10 questions mixed between MCQ and T&F in time 18 minutes.
- Quiz: Contain 15 questions mixed between MCQ and T&F in time 30 minutes.
- 3. The Professor specifies how many questions included from each chapter that the Exam must have.
- 4. Each student gets random Questions According to the previous constraints that Professor set.

Considerations: -

- Consider these points while developing the System:
 - 1. Sign Up and Sign in Pages. Sign up for Professors, who need Approval from The Admin, and for Students.
 - 2. The Student can see only his Result.
 - 3. The Professor can see The Results of the Students for only his Subjects
 - 4. The Professor can add or edit questions for only his Subjects.
 - 5. If Time of the Exam is finished, then the Exam is close automatically and redirect to result page.
 - 6. The Student is notified of his Rank among his Level.
 - 7. Student can access a training Exams as much as he wants without being added in his Final Result.
- Consider Basic Security Concepts:
 - 1. Data Validation for every input in the System, prevent SQL Injection and cannot get into Log in or Sign up pages.
 - 2. The Authentication of each page, ex... student cannot add questions, users.
- O The Admin, and for Students:
 - 1. Sign Up and Sign in Pages. But Sign up for Professors, who need Approval from admin.

Technologies used:

HTML: Page layout has been designed in HTML.

CSS: CSS has been used for all the designing part.

JavaScript: some function and animations has been developed by JavaScript.

Bootstrap, Bootbox and jQuery: Bootstrap Library used for design and Bootbox and jQuery

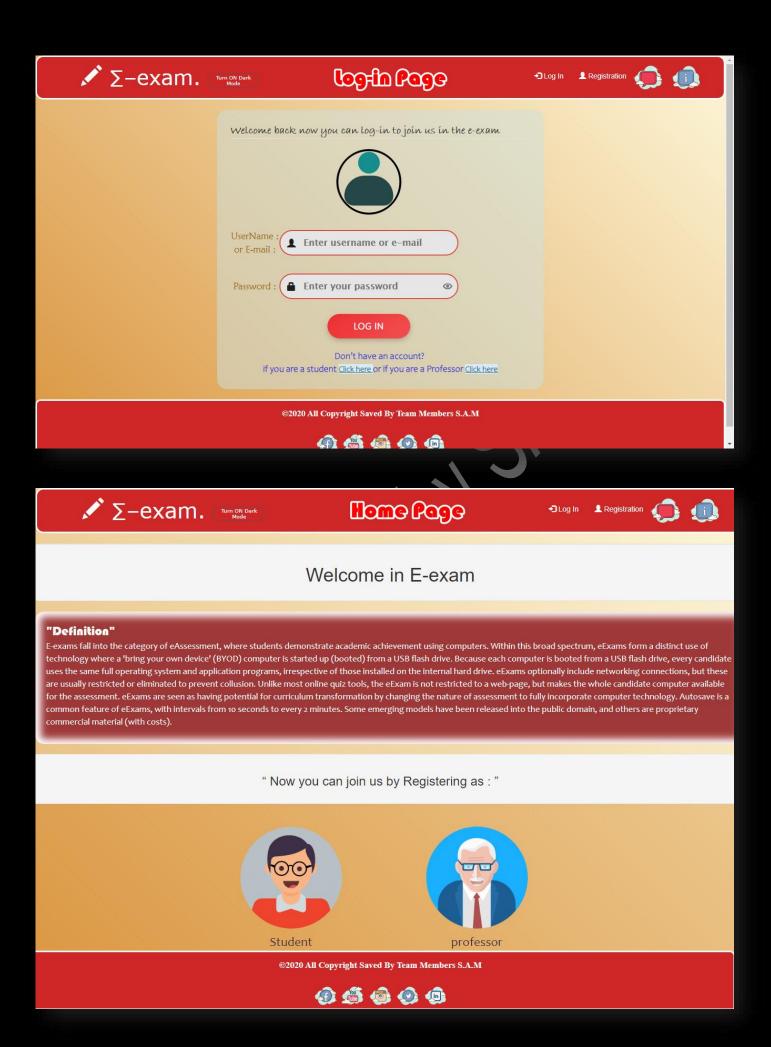
Libraries implementation of some tasks

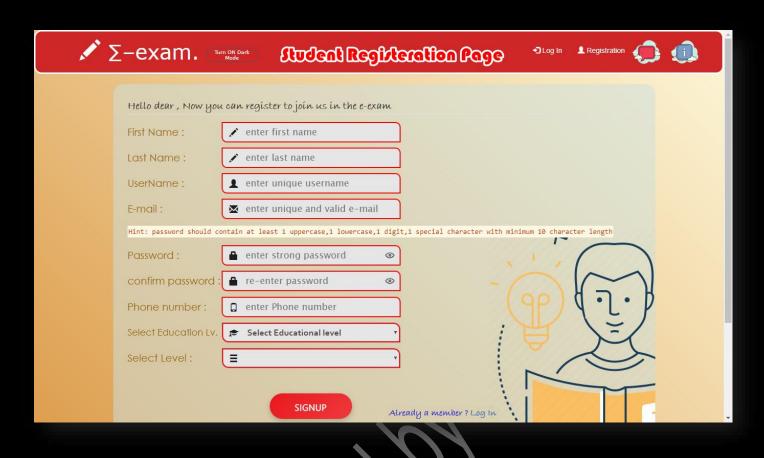
ASP: All the front-end logic and Validation task have been written in ASP.

C#: All the business logic has been written in C #.

Microsoft SQL Server Management: SQL Server database has been used as database for the project.

Visual Studio: Project will be run over the Visual Studio 2015 Server.











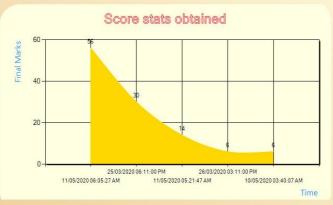
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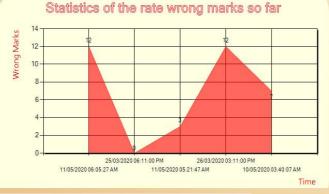




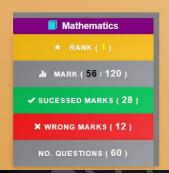




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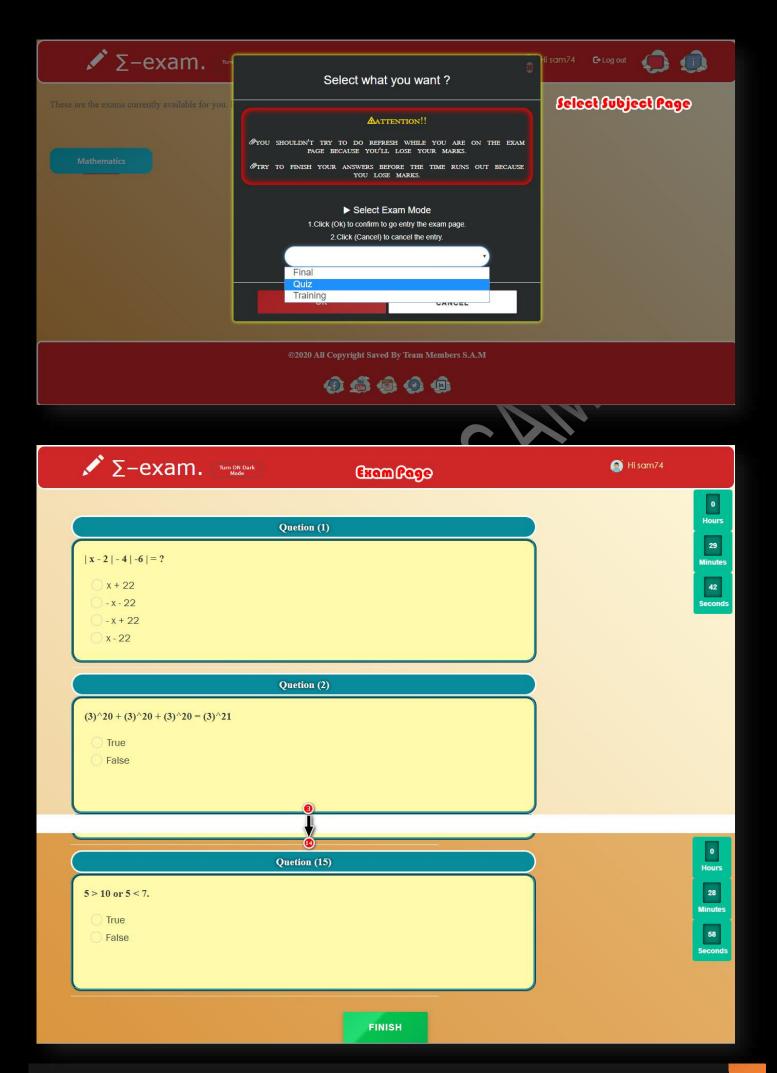


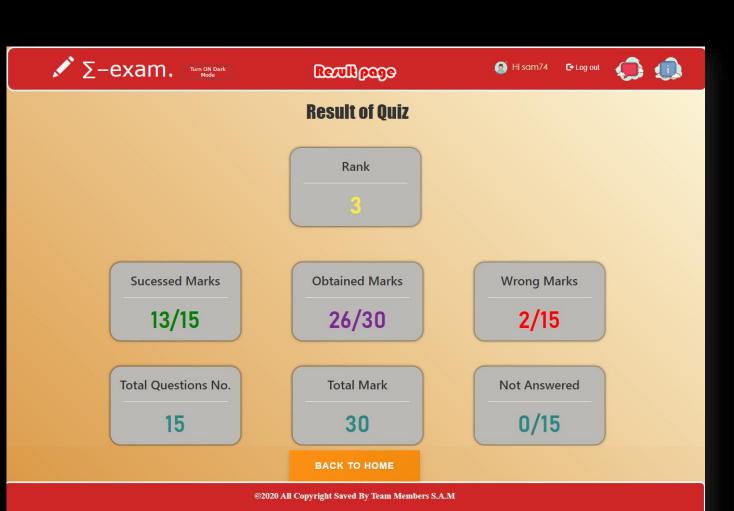


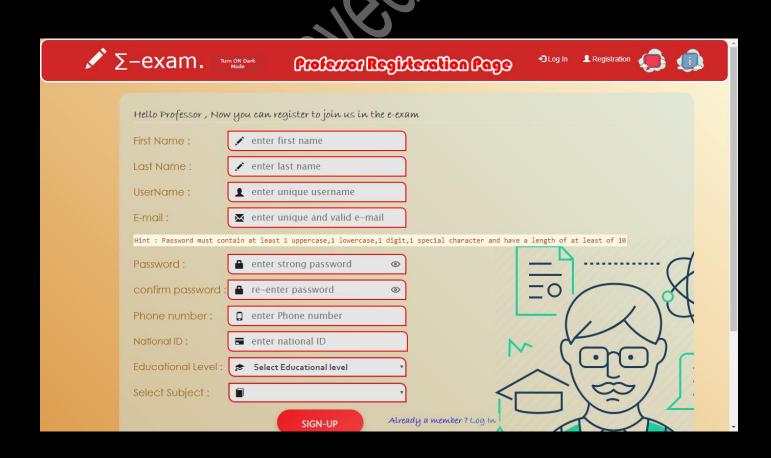














Professor Home Page







Dear Professor,

We hope you are in the best condition, and we are glad to be your partner in our success. We are an e-exam community. We wish you all the best in your work in helping us to build a successful, complete, and helpful community for our students to get an exclusive experience to take exams.

🔗 You can go to exam questions page 🦙 You can view your previous question

and some statistics from here

Create Question

Statistics



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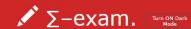












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EDIT MY DATA



EDIT PASSWORD



Account Info.

Name: Amr Hassan

User Name: Amr72

Amr@gmail.com Email:

01097347834 Phone:

User Type: professor

National ID: 21332897438927

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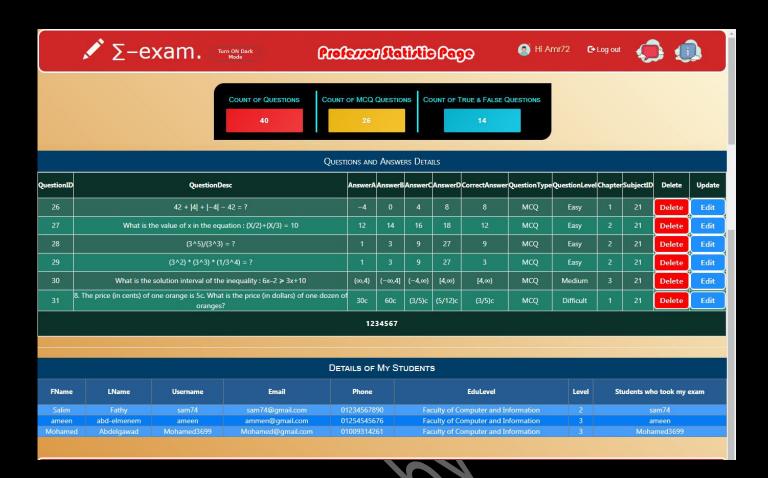


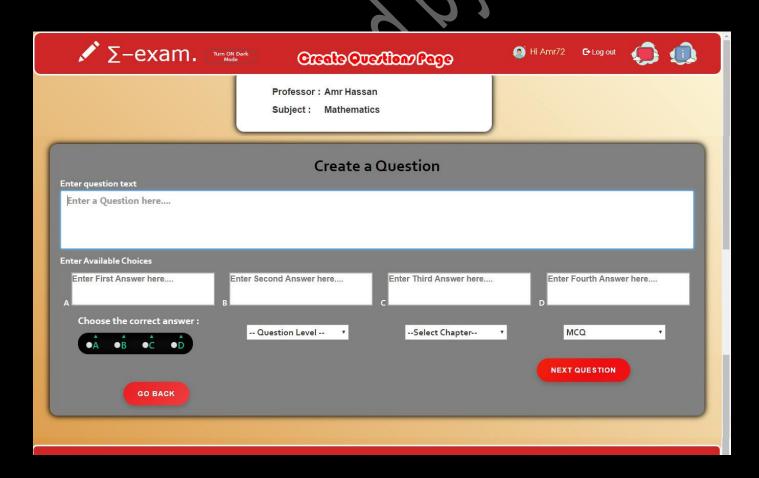


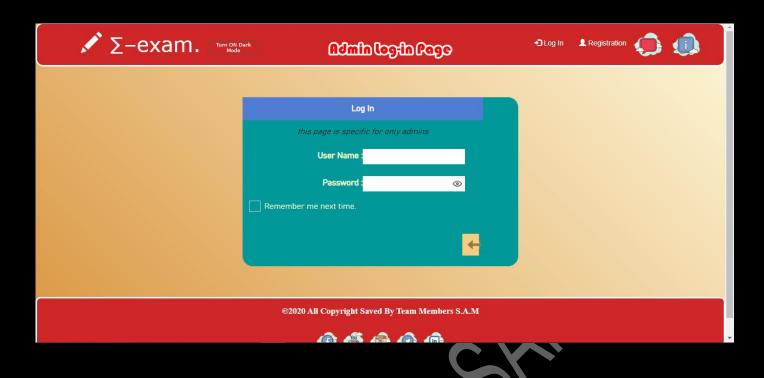




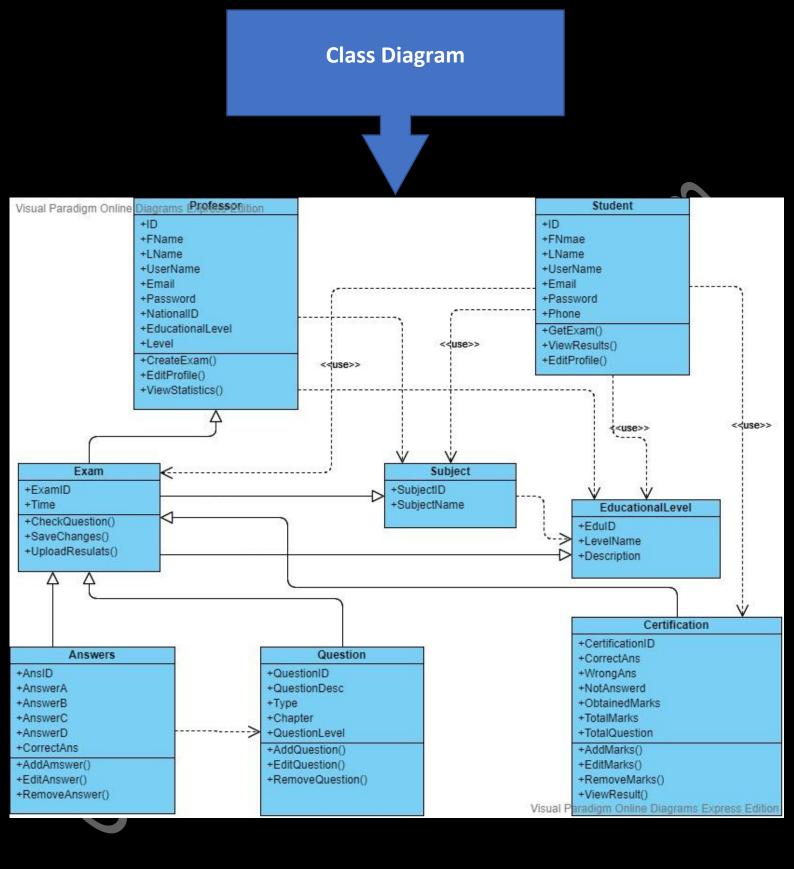




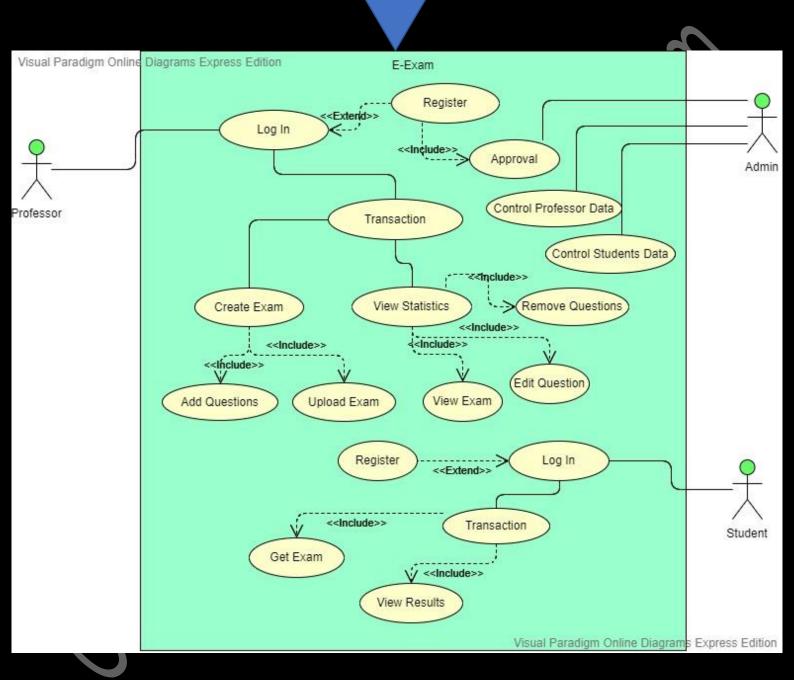








Use Case Diagram



ERD

