



APPLICATION OF COMPUTER BASED EXAMINATION SYSTEM

Submitted in partial fulfilment of the requirements for Industrial
Training of diploma in Computer Engineering

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CERTIFICATE

This is to certify that the project entitled “APPLICATION OF COMPUTER BASED EXAMINATION SYSTEM” is a Bonafede work of students Hiteshi Lodaya, Kavya Vasa submitted to K.J.Somaiya Polytechnic in partial fulfilment of the requirement for Industrial Training of diploma in Computer Engineering.

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Project Report Approval for Diploma.

This project report entitled “**Application of computer based examination system**” by

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DECLARATION

We declare that this written submission represents our ideas in our own words and where others ideas or words have been included, we have referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will cause disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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ABSTRACT

Online Examination System is an on-line test simulator to take online examinations in an effective manner and it doesn't waste time for manually checking the test paper. The main objective of the web based online examination system is to effectively evaluate the student thoroughly through a fully automated system that not only saves a lot of time but also gives fast and accurate results. Each and every student can give the examination according to their convenience from any location at the allocated exam timing and there is no need for extra things like paper and pen. Students can perform the examination only with their valid usernames and passwords. This examination contains multiple choice questions and an appropriate number of options. The candidate can only select one option from all the options given. The examinee can view the result after completion of the exam. This system contains a lot more features than the manual examination system. Lastly this examination system uses fewer resources and reduces the need for exam room scheduling, arranging invigilators, coordinating with examiners and more.

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List of Abbreviations

CBES- Computer Based Examination System

OES- Online Examination System

PHP- Hypertext Preprocessor

JS- JavaScript

CSS- Cascading Style Sheets

HTML- Hypertext Markup Language

SQL- Structured Query Language

DB- Database

Tbl- Table

DFD- Data Flow Diagram

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CHAPTER-1

INTRODUCTION

1.1 Background of the project

Online Examination System is a system through which many educational institutions and all users can benefit from. Many institutions use various paper materials and pens to process the manual examination. Computer-based exams (CBE) have a number of important advantages compared to traditional paper-based exams (PBE) such as efficiency, immediate scoring and feedback in the case of multiple-choice question exams.. But in this system, it provides the student information, questionnaires, and answers and automatically computes the scores. Candidates are given a limited time to answer the questions and after the time expiry the results will get displayed. Today many organizations conduct online examinations worldwide successfully and issue results online. There are advantages and disadvantages in online examinations. The advantage is that it can be conducted for remote candidates and evaluation of answers can be fully automated for multiple choice. The disadvantage is there is no method to identify whether the exact students take that exam.

1.2 Problem Definition

Online Examination is very helpful to users. The aim of this project is to provide a quick, immediate and easy way to appear for the exam. It can provide special advantages to the students. The OES can automatically add the marks allocated in each question to determine the total mark for the questions. A time limit can be set for the questions. The OES allows jumping to specific questions based on the previous answer. The OES limits the number of times a student can write a question. Login module helps the user to login to the site. For that he/she must type the username and password and email correctly. The login provision in this page helps the already registered user to directly access the site module is mainly for the students. This helps the students to register for the exam and answer the exam. For registration username, password and email should be entered. This system will provide results after the exam according to the correct and wrong answer. Administrator module is mainly for the administrator. This will contain the creation of a question paper, preview of an already created question paper, and the report of the administrator. For creating the question paper he/she must enter a correct username and password No: of questions, total time (in min), Option type. For

showing the preview of already created question paper he/she must enter the correct Exam id

1.3 Aim and Objective of the project

The aim of this project is to Provide a friendly, easy to use examination platform for students.

General objective:

General objective of our project is to change the current manual system into a computerized one. This project would be very useful for educational institutes where regular evaluation of students' is required.

Specific objective:

- Online examination project assesses students by conducting online objective tests.
- Responses by the candidates will be checked automatically.
- It reduces time consumption.
- OES reduces paperwork.
- Questions can have multiple options, multiple answers or can be text answers.
- To allow the department to create tests and answers.
- The result will be shown after some time to the participating students.
- This project will enable educational institutes to conduct tests and have automated checking of answers based on the response by the candidates.
- It would enable educational institutes to perform a test quiz.

1.4 Scope of the project

- Can be used anywhere any time as it is a web based application (user location doesn't matter)
- No restriction that examiner has to be present when the candidate takes the test.
- Design to facilitate administrator and user.
- Online examination is designed for educational institutes like schools, colleges and private institutes to conduct logic test for their students or employees on a regular basis.
- The system handles all the operation and generates reports as soon as the test is finish

1.5 Justification and need for the system

The traditional approach to measuring a person's level of knowledge in a topic has been examination. These days there is often more emphasis on internal assessment, which may consist of assignment and project given out by the teacher and marked or assessed by the same teacher. It is a modern method of conducting examinations, a widely accepted and rapidly increasing environment of conducting examinations online in all the sectors of education and job. It will considerably replace the traditional paper and pen based exam in future. In present days the availability of the computers and the internet is leading to on-line examinations.

1.6 Overview

The online exam created for taking online exam has following stages

- **Login**
- **Exam**
- **Result**

Login: When a student will enter the correct credentials then only he/she will be able to enter the site. Hence it is more secure and reliable than previously used on-line test simulators.

Exam: Exam page is the most creative and important page in this project. It consists of 2 modules namely:

- **Course selection**
- **Utilities**

Course selection: From the given choices the candidate can select his courses (like Core Java, Operating Systems,etc) for taking on with the test.

Utilities:

It includes: Next button for attempting the next question. Timer will also run simultaneously on the question page.

Result: After attempting all the questions the result will get displayed. Computer will calculate the correct answers only and according to that it will give marks.

1.7 Definition of Terms

Following are the terms and their meaning which are used in this project

Table 1.7.1 - Terms and their meaning

Sr. No.	Acronyms	Meaning
1.	Examination	A test to show a person's progress, knowledge or ability, it comprises some question and multiple choices answer.
2	Student	A person who has an account on the CBES platform
3.	Admin	A person who manages the operation of the CBS
4.	Guest	A person who has not registered an account in the CBS
5.	Profile	All the information of the candidate such as name, email of all examined CBS
6	Question	A problem that has a number of choices and only one correct answer

CHAPTER - 2

ORGANIZATIONAL STRUCTURE

2.1 Introduction

In this chapter, the concepts and technologies used in the work and how they are used are explained. Also in this chapter, the works of other researchers who have worked on related works were discussed under review of related literature, to aid the researcher in solving the identified problems. The design of the proposed system is also provided in this chapter. Also the algorithms and flowcharts are created for each module in chapter 2.

2.2 Theoretical Background

The technologies used in this application are web technologies: HTML, CSS, PHP, relational database technology (MYSQL) and JavaScript.

1. The main building technology of the application, Computer Based Examination System is the HTML, The HTML is the markup language used to describe and define the content of a webpage. The HTML is issued to tell the browser what to display on the page, like appearance of text such as bold or italics text and also used to specify images. The main HTML features used were form and Cascading Style Sheet. The form was used to collect LOGIN data username and password-from a user and a submit button (Login) to send the collected data to a web document to act on the data.

2. The styling of the application was done using CSS. This include the

- i. The Layout
- ii. Link Styling
- iii. Coloring
- iv. Picture Alignment
- v. Menu Building

Cascading Style Sheets (CSS) is a style sheet language used to describe the look and formatting of the document written in HTML. Presentation of information to the user by the browser was controlled by means of Cascading Style Sheet. Cascading Style Sheet is a cornerstone specification of the web and was used in the application to describe their presentation. CSS was designed to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structural content (such as by allowing for tableless web design). It avoids those portions of markup that would specify presentation by instead, providing that information in a separate

file. For each relevant HTML element (identified by tags), it provides a list of formatting instructions. For example, it might say (in CSS syntax), "All heading 1 element should be bold." Therefore, no formatting markup such as bold tags () is needed within the content; what is needed is simply semantic markup saying, "this text is a level 1 heading".

3. The connection to the database was done using the scripting language PHP. In the project, PHP was used for:

- i. Handling data validation
- ii. Editing, Deleting information in the database
- iii. Database connectivity
- iv. Managing Scripting Functionality
- v. Generating Dynamic content in the application like displaying the information of traffic offenders in the application
- vi. Searching and fetching information from the database and sorting them accordingly like the periodic display of traffic defaulters in the application.

PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP is used in the application to access databases and provide server-side form, because it is closely integrated with MySQL database, open source, lightweight and does not consume much server resources to render pages. PHP syntax: PHP code can be simply mixed with HTML code, or it can be used in combination with various templating engines and web frameworks. PHP code is usually processed by a PHP interpreter, which is usually implemented as a webserver's native module or a Common Gateway Interface (CGI) executable. After the PHP code is interpreted and executed, the web server sends the resulting output to its client, usually in the form of a part of the generated web page – for example, PHP code was used to generate a web page's HTML code, an image, and some other data. PHP has also evolved to include a command-line interface (CLI) capability 9 and can be used in standalone graphical applications. PHP is contained within the body of an HTML page and runs on window-based servers with an installed interpreter. 5. The database used for storing information in this project application is MySQL. Working together with PHP is MySQL, the most widely used open-source relational database management system (RDBMS). The SQL phrase stands for Structured Query Language. MySQL is a popular choice of database for use in web applications, and is a central component of the widely-used LAMP open source web application software stack (and other 'AMP' stacks). LAMP is an acronym for Linux, Apache, MySQL, Perl/PHP/Python. Both PHP and MySQL instructions used in this application are used together in the code to open the

database, establish connection between it and the HTML code to insert data, retrieve data, delete data etc.

4. JavaScript is combined with HTML and CSS to create dynamic HTML pages. JavaScript is commonly used on the internet to create web pages that respond to user actions, like when a user moves a mouse pointer over an image or clicks a form button. JavaScript was used for the client side scripting and security, it was also integrated with jquery and ajax to create Model Windows used in the application like:

- i. Generating Print preview display
- ii. To ensure the registrant does not submit empty forms
- iii. To ensure that the information requested is what the user enters using the JAVASCRIPT regular expression to match the data submitted.

2.3 Hierarchy of the Project / Design Details

The entire design of our includes a web based application that serves as an examination system for the examinees to test their knowledge and manage their scores efficiently and also helps the administrator to organize the examination system.

There are two modules in our project: -

1. The Admin Module: -

The admin has to first login with the username and password to enter the module and has to sign up if the admin is a new user. The admin can only enter the module if the username and password entered is correct. In the admin module the admin has to add questions which the candidate has to give answer for in the student module for every course in the module for the examination. The admin also has to add all the courses the candidate has in their syllabuses. Then the admin has to add the candidate details for the examinees who are eligible to appear for the exam. The admin can view the candidate details which he/she has added in the module. The admin can also view the questions for every course which he/she has already added.

2. The Student Module: -

The student has to first login into the account if the student is an existing user and signup if the student is a new user. The student can only enter the module if the email id and password are correctly entered. The student can update their profile from the profile button if they have any changes in their profile details. The student has to select the Course which they have to appear for and start the examination. There are 10 questions for every Course they have to attempt for every question within the

given time limit and end the exam. The student can view their score after ending the exam and can give the exam again if they want to. Lastly, the student can logout from their account by clicking on the logout button of the homepage.

2.4 Proposed System

Functional requirements:

Required software is for conducting online examination and providing results. The system should satisfy the following requirements:

User Requirements:

- **Administrator Aspect: -**

1. Logging into the system
2. Signing in if a new user and then logging in
3. Adding the questions
4. Adding the candidate details
5. Adding the course details
6. Viewing the candidate details
7. Viewing the question list for each course

- **Student Aspect: -**

1. Logging into the system
2. Signing in if a new user and then logging in
3. Updating profile if needed

4. Selecting the course
5. Appearing for the examination
6. Viewing the result after completing the exam

2.5 Algorithms and Flowcharts

Algorithm of Student Module:

Step 1: Start

Step 2: Signup if you are a new user.

Step 2: Input email and password to login if already a user.

Step 3: Enter the examinee homepage if email and password is correct.

Step 4: Select the Course and start your test

Step 5: Attempt every question by selecting the option out of four which you think is correct.

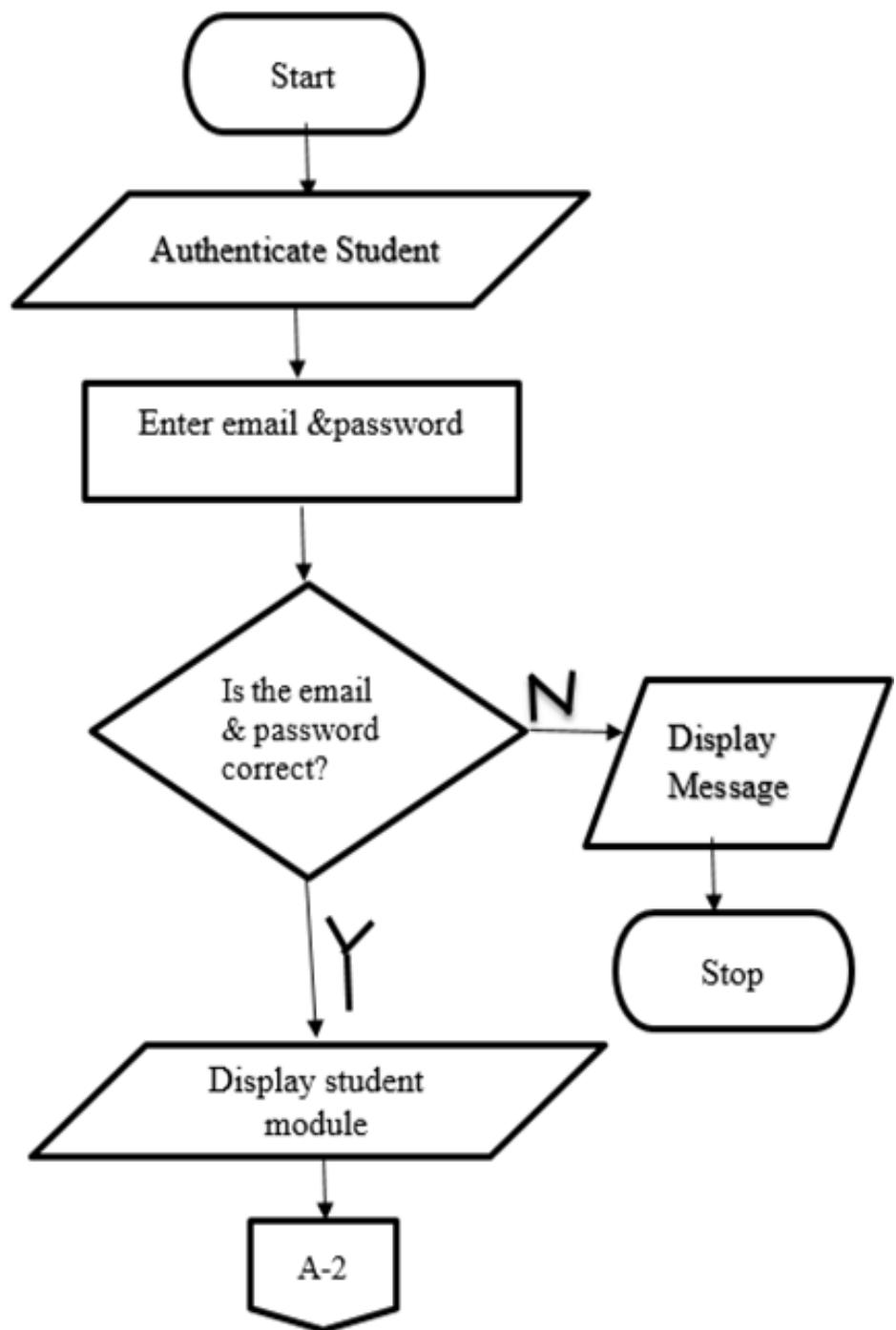
Step 6: Submit the exam before the end time.

Step 7: View your final score after completing the exam.

Step 8: You can start your exam again if you want to.

Step 9: Update your profile if any changes.

Step 10: Logout from your account from the right corner of the page.



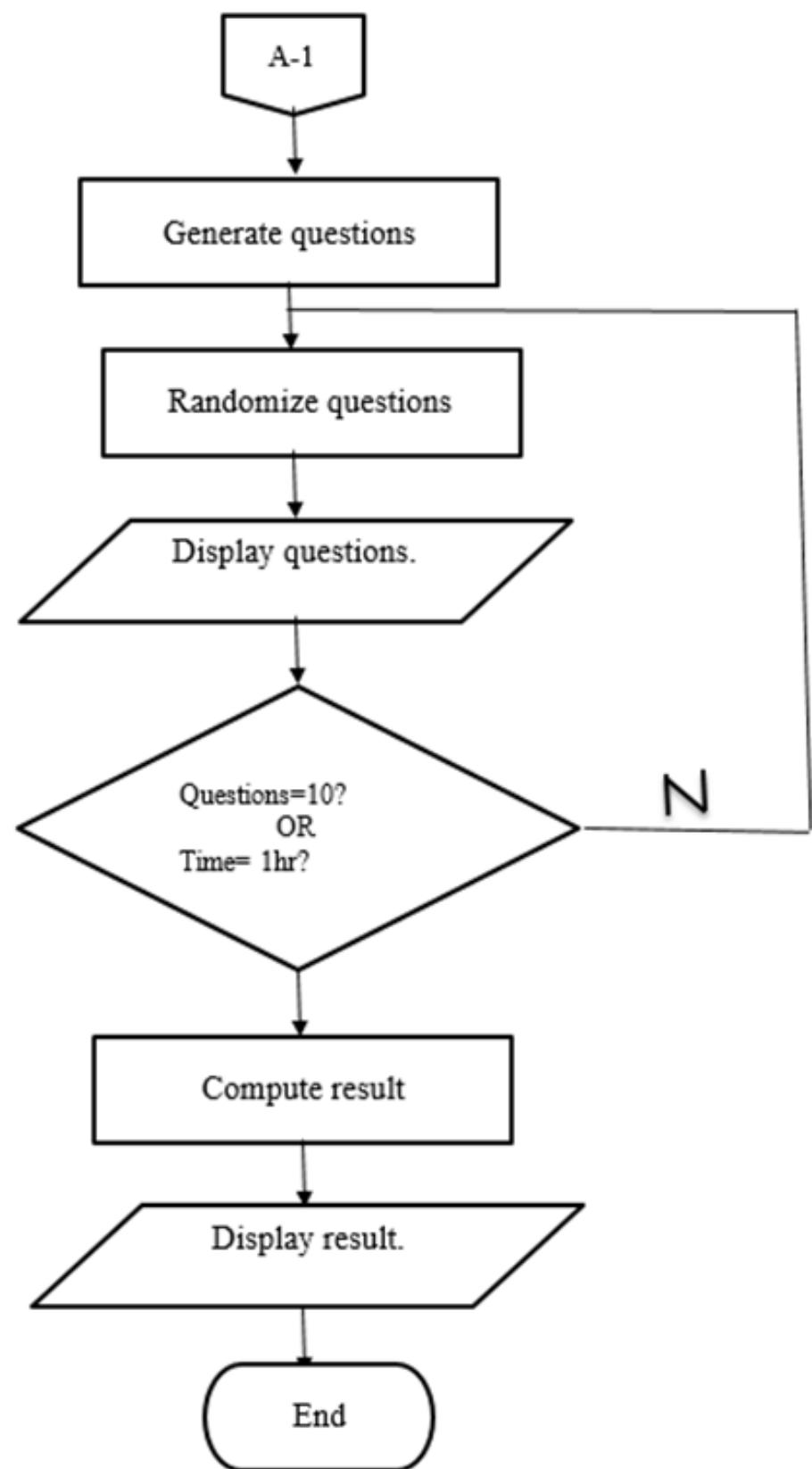


Figure 2.1.1- Flowchart of Student Module

Algorithm of Admin Module:

Step 1: Start

Step 2: Input username and password to login.

Step 3: Enter to control admin panel if username and password is correct.

Step 4: Add questions under the Add Questions section.

Step 5: View questions under Ques List section

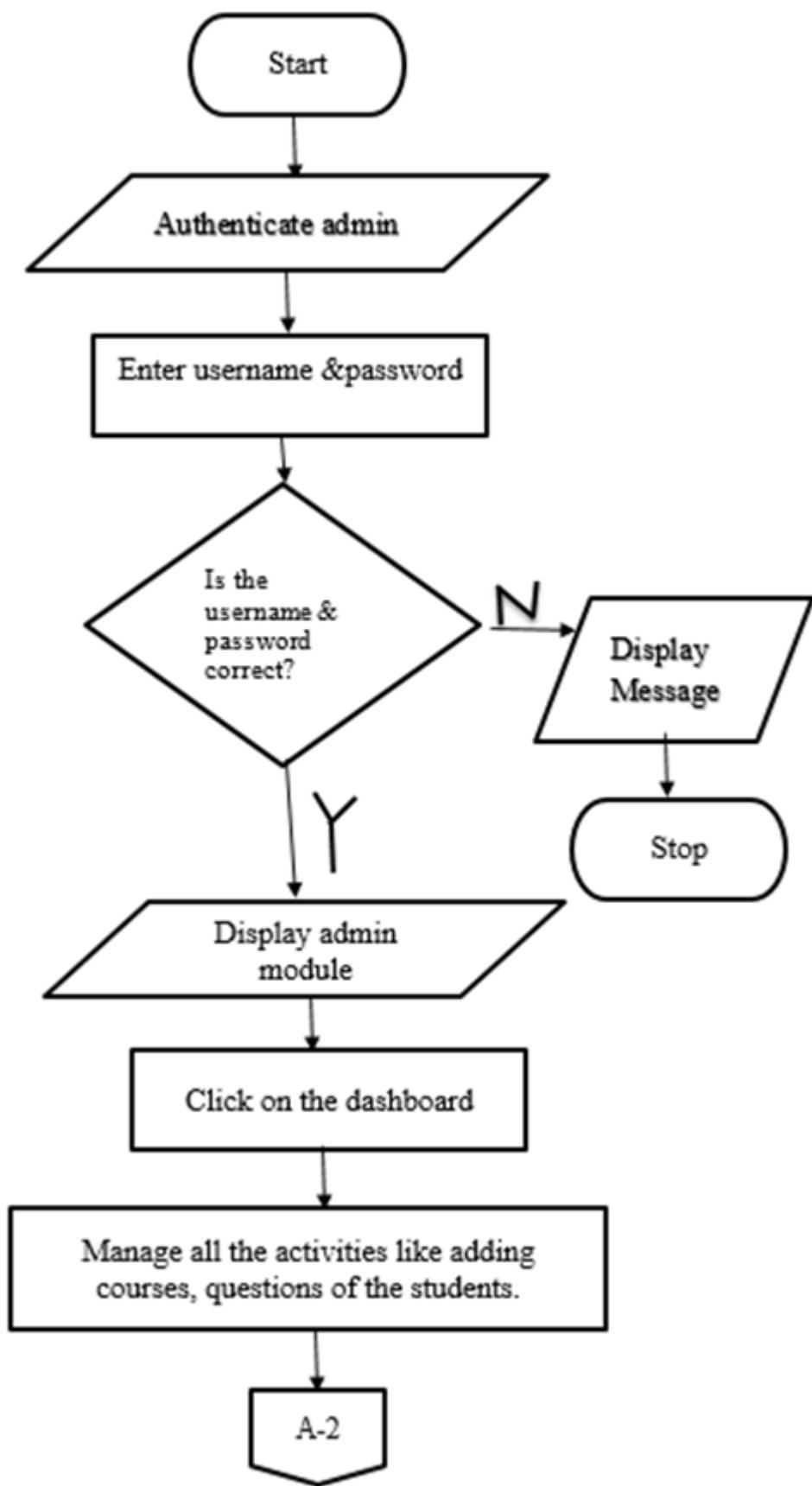
Step 6: Add Candidate Details under the Add Candidate Details section.

Step 7: View Candidate Details

Step 8: Add Courses and the Course details under Manage Courses section

Step 9: Logout from the admin module.

Step 10: End.



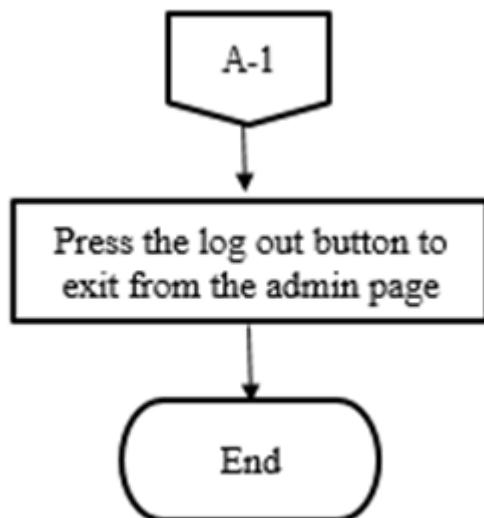


Figure 2.1.2- Flowchart of Admin Module

CHAPTER - 3

SYSTEM ANALYSIS AND PLANNING

3.1 Introduction

This chapter contains the description of the examination system before Covid - 19, problems associated with the existing system, features of the proposed system, analysis of the proposed system, advantages of the proposed system over existing system and the diagrams for the proposed system. The topics mentioned in this chapter are explained in detail below.

3.2 Description of the Existing System

First registering for every course and then the whole process of assigning tests and evaluating their scores after the test, was done manually till date. Processing the test paper i.e. checking and distributing respective scores used to take time when the software was not installed. Also assigning several invigilators for each class if online examination system application isn't created.

3.3 Features of the Proposed System

1. Create Course and MCQ questions: -

The online examination system software allows administrators to create examination papers by subject and using multiple-choice questions. This kind of ability ensures that the examinations remain up to date instead of being outdated in any way. It also means that a constant stream of questions is being added to the institutional knowledge of the college in questions of question banks for future educators use.

2. Generating Result: -

In online exams also results in evaluation are done automatically, as soon as the tests are submitted by the students in the allotted time-frame the software automatically shows the results. With all this outstanding feature the teacher's workload reduces to a great extent and is evaluated by the application itself.

3. Setting Time Limit: -

This feature allows setting the time limit for each question and the student appearing for the examination has to complete the exam within the stipulated time or else the student won't be able to attempt the exam if the time precedes the time limit.

4. Creating eligible Candidate List: -

The admin has to input the candidate details in the email module; those candidates can only login into their account. The candidates who aren't eligible and whose details haven't been added by the admin for the examination can't login for giving the exam. This feature makes sure no one except the eligible candidates can give the examination.

5. Logged out before completing the exam: -

If the candidate logs out before completing the examination they have to restart the examination from the beginning. This feature ensures that no one fails their exam because of a mistake or an internet issue.

3.4 Problem Association of the Existing System: -

- The Existing System is very time consuming.
- It is very difficult to analyze the exam manually.
- To take the exam of more candidates, more invigilators are required but there is no
- need for an invigilator in case of online examination.
- Results are not precise as calculation and evaluations are done manually.
- The chances of paper leakage are more in the current system as compared to the proposed system.
- Result processing takes more time as it is done manually.

- Usage of papers, pens and other materials is very necessary for the Existing System.
- Registering for every course before the exam.

3.5 Analysis of the Proposed System

1. Authenticating users based on username and password.
2. Recording candidates' responses to every question.
3. Examining whether the given response is correct or isn't correct.
4. Ending the examination if the time goes beyond the exam time.
5. Generating the final score for each examination based on the student's responses.
6. Reappearing for the exam if necessary and repeating the above processes again.

3.6 Advantages of Proposed System over Existing System

- In comparison to the present system the proposed system will be less time consuming and is more efficient.
- Analysis will be very easy in the proposed system as it is automated.
- Results will be very precise and accurate and will be declared in a very short span of time because calculation and evaluations are done by the simulator itself.
- The proposed system is very secure with no chances of leakage of question paper as it is dependent on the administrator only.

- The logs of appeared candidates and their marks are stored and can be backed up for future use.
- No need for papers, pens or other stationary materials.
- No registration is needed for every course the student can just login, the course on the exam date and give the exam.

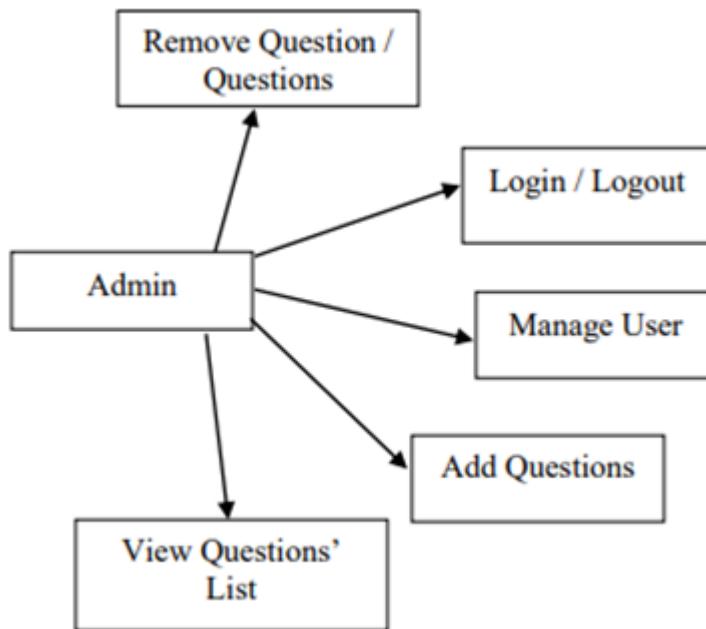


Figure 3.5.1- Responsibility List Diagram for Admin Module.

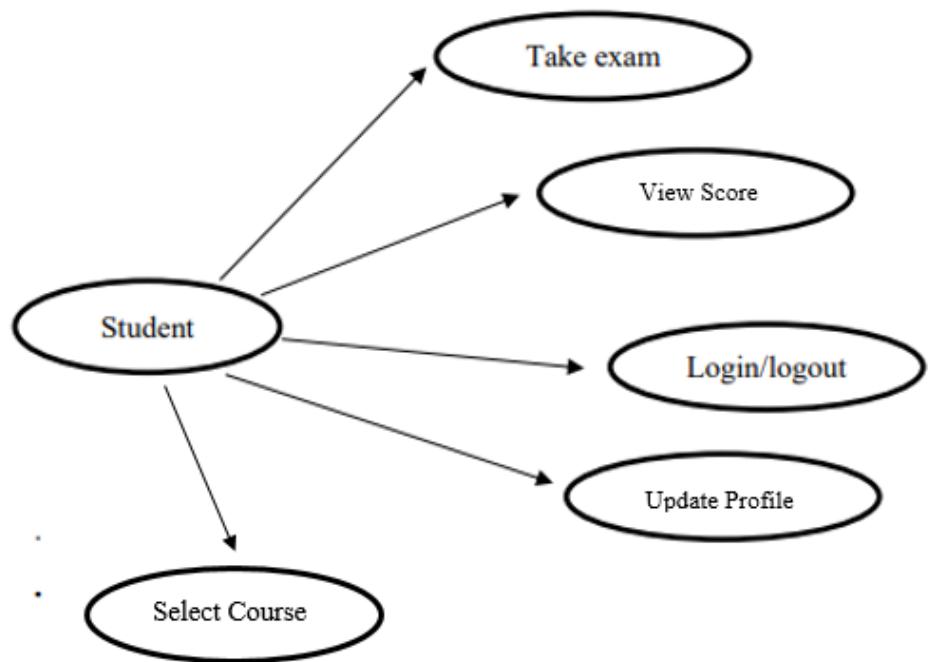


Figure 3.5.2- Responsibility List Diagram for Student Module

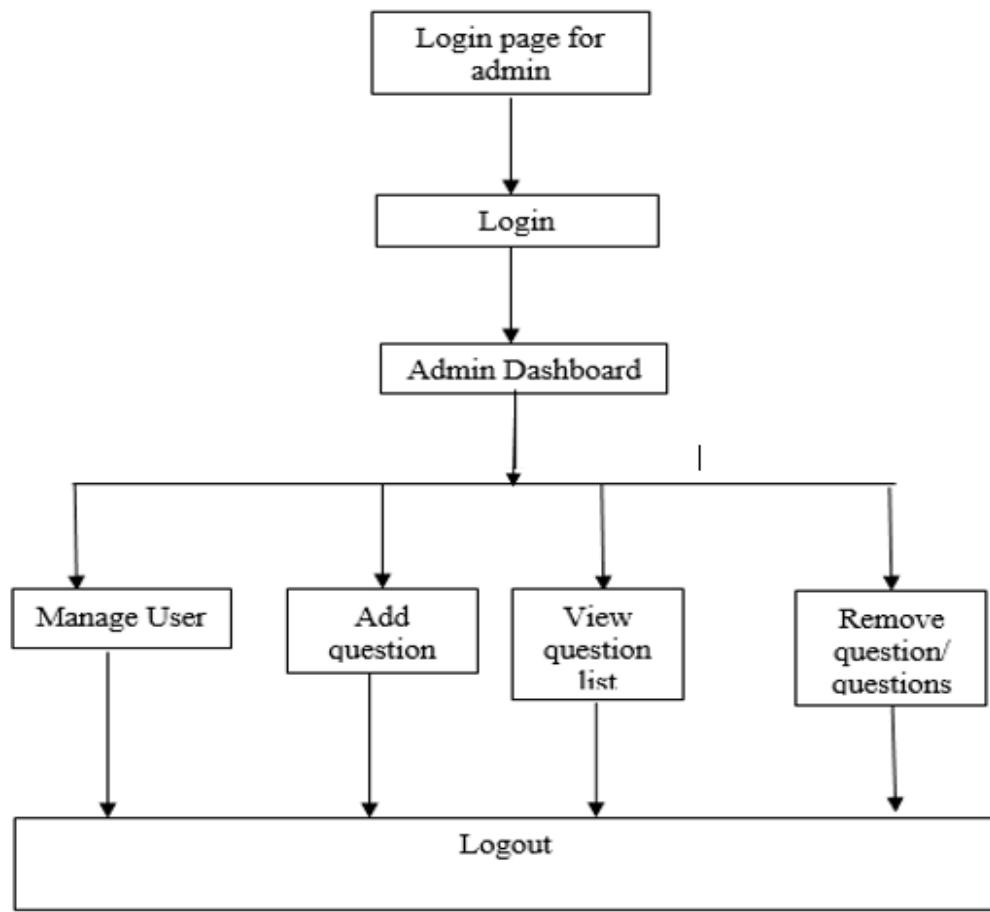


Figure 3.5.3- Chart for Admin Module

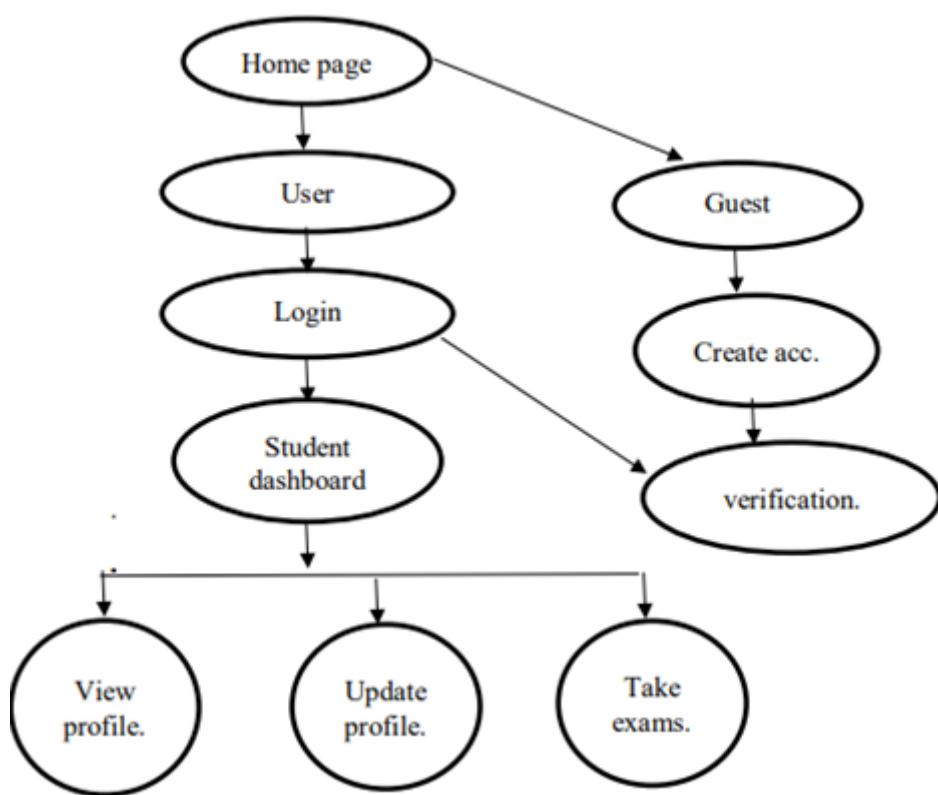


Figure 3.5.4- Chart for Student Module

3.7 Design of the Proposed System

Database Design

With the help of phpmyadmin we have created the following tables in the database for this project.

Table 3.7.1- Student signup table

Field Name	Character Length	Data Type
id	10	int
student_name	25	varchar
student_password	20	varchar
student_email	30	varchar

Table 3.7.2- Manage Courses

Field Name	Character Length	Data Type
course_name	25	varchar
course_code	20	varchar
exam_date	30	int
eligible_students	10	int
total_questions	20	int
marks	12	int
time_limit	20	varchar

Table 3.7.3- Candidate Details

Field Name	Character Length	Data Type
enrollment_number	20	varchar
candidate_name	25	varchar
candidate_username	20	varchar
candidate_password	20	varchar
candidate_email	20	varchar

Table 3.7.4- Admin table

Field Name	Character Length	Data Type
admin_id	10	int
admin_username	25	varchar
admin_password	20	varchar

Table 3.7.5- Add Questions Table

Field Name	Character Length	Data Type
course_name	25	varchar
question_number	20	int
question	30	varchar
option_1	10	varchar
option_2	20	varchar
option_3	12	varchar
option_4	20	varchar
correct_option	70	int

Table 3.7.6- cj_choices Table

Field Name	Character Length	Data Type
question_number	11	int
text	-	text
is_correct	1	tinyint

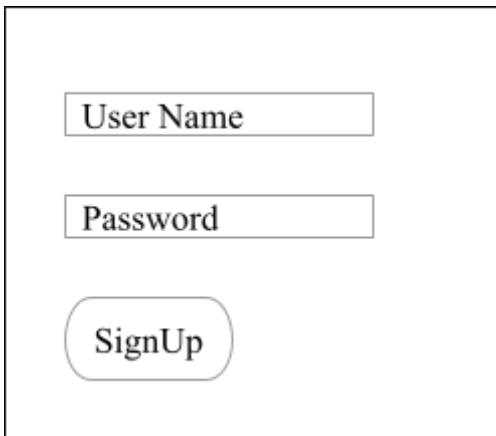
Table 3.7.7- cj_questions Table

Field Name	Character Length	Data Type
question_number	11	int
text	-	text

We have created similar tables of choices and questions for every course like above table.

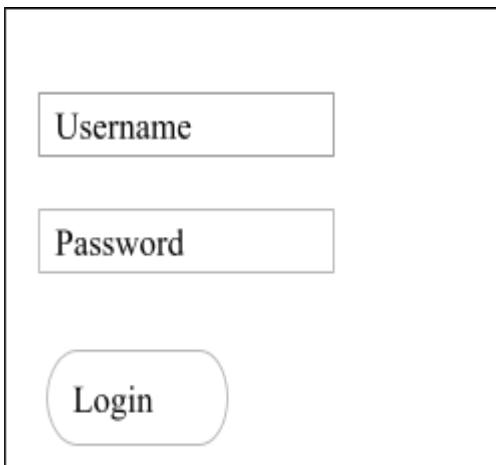
Input Design:

For Admin Module:



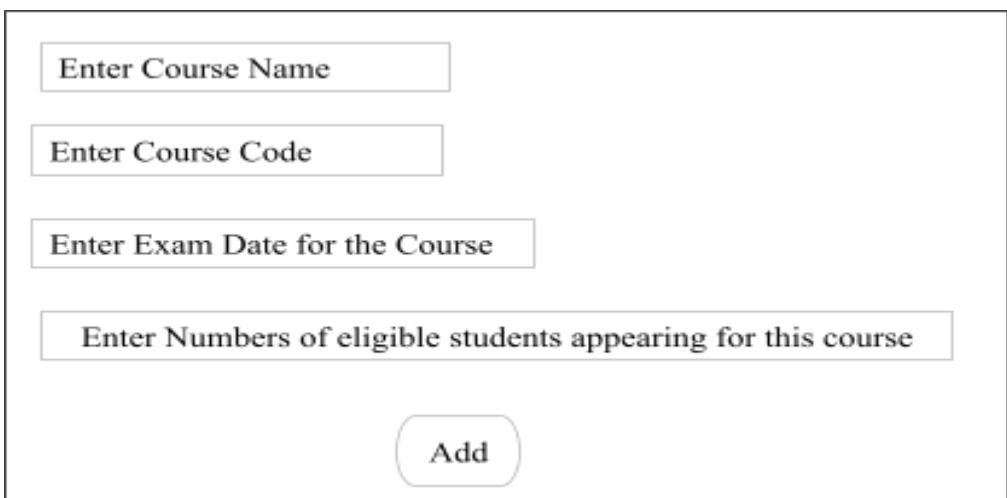
The figure shows a rectangular input form for sign-up. It contains three fields: a rectangular "User Name" field at the top, a rectangular "Password" field below it, and a rounded rectangular "SignUp" button at the bottom.

Figure 3.7.1- SignUp form



The figure shows a rectangular input form for login. It contains three fields: a rectangular "Username" field at the top, a rectangular "Password" field below it, and a rounded rectangular "Login" button at the bottom.

Figure 3.7.2- Login form



The figure shows a rectangular input form for adding course details. It contains four fields: a rectangular "Enter Course Name" field at the top, a rectangular "Enter Course Code" field below it, a rectangular "Enter Exam Date for the Course" field further down, and a rectangular "Enter Numbers of eligible students appearing for this course" field at the bottom. Below these fields is a rounded rectangular "Add" button.

Figure 3.7.3- Add Course Details form

Enter Course Name
Enter Question Number
Enter Question
Enter Option 1
Enter Option 2
Enter Option 3
Enter Option 4
Enter Correct Option Here
Submit

Figure 3.7.4- Add Questions form

Enter the enrollment number
Enter Candidate Username
Enter Candidate Password
Enter Candidate Email
<input type="button" value="Add"/>

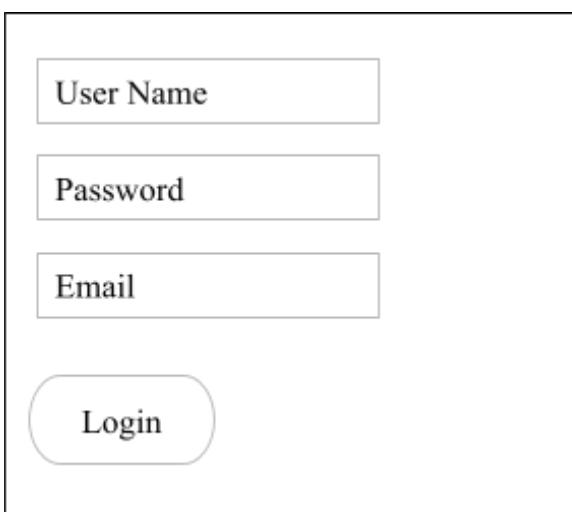
Figure 3.7.5- Add Candidate Details form

For Student Module:



The image shows a user interface for a SignUp form. It consists of three rectangular input fields stacked vertically, each labeled with its respective field name: "User Name", "Password", and "Email". Below these fields is a single button, which is rounded rectangular and labeled "SignUp". All elements are contained within a large rectangular frame.

Figure 3.7.6- SignUp form



The image shows a user interface for a Login form. It consists of three rectangular input fields stacked vertically, each labeled with its respective field name: "User Name", "Password", and "Email". Below these fields is a single button, which is rounded rectangular and labeled "Login". All elements are contained within a large rectangular frame.

Figure 3.7.7- Login form



The image shows a user interface for an "Update Your Profile" form. It consists of three rectangular input fields stacked vertically, each labeled with its respective field name: "User Name", "Email", and "Password". Below these fields is a single button, which is rounded rectangular and labeled "UPDATE". All elements are contained within a large rectangular frame.

Figure 3.7.8- Update Your Profile form

CHAPTER- 4

SYSTEM REQUIREMENTS

4.1 Hardware Requirements

- Processor: AMD 3020e with Radeon Graphics
- Installed RAM: 4.00GB
- Speed: 1.20 GHz
- Operating System Version: 21H1(OS Build 19043,1165)

4.2 Software Requirements

- HTML:

HTML stands for HyperText Markup Language. HTML is the standard markup language for creating Web pages. HTML describes the structure of a Web page. HTML consists of a series of elements. HTML elements tell the browser how to display the content.

- CSS:

CSS stands for Cascading Style Sheets. CSS describes how HTML elements are to be displayed on the screen, on paper, or in other media.

- JavaScript:

JavaScript is a programming language that can be included on web pages to make them more interactive. JavaScript is a client-side, interpreted, object-oriented, high-level scripting language, while Java is a client-side, compiled, object-oriented high-level language.

- PHP:

PHP is a recursive acronym for "PHP: Hypertext Preprocessor". PHP is a server-side scripting language that is embedded in HTML.

- MySQL for the database :

MySQL is a database system used for developing web-based software applications. MySQL supports standard SQL (Structured Query Language).

- Phpmyadmin

phpMyAdmin is a free software tool written in PHP, intended to handle the administration of MySQL over the Web. phpMyAdmin supports a wide range of operations on MySQL and MariaDB. Frequently used operations can be performed via the user interface, while you still can directly execute any SQL statement.

4.3 Non-functional requirement

- **Performance:**

After completing the exam, the entire score of the student will be calculated.
The software shall support use of multiple users at a time.

- **Usability:**

The website should be user friendly and should require least effort to operate.

- **Availability:**

Students can take exams only during the previously allotted time slots, however can open sites anytime to access other information. This system must run on multiple operating systems and support windows operating system

4.4 Technologies used

Front end as: HTML, CSS, JS

Back end as: PHP, MYSQL

Server: Xampp Control Panel

Database: MYSQL

Querying language: SQL

CHAPTER- 5

SYSTEM IMPLEMENTATION

5.1 Introduction

This is a simple CBES in which a user can login with the correct credentials if he/she is not then they can register and then they can log in. After getting logged in they user can choose the course they want to give exam for. After attempting all the questions results will be displayed.

Admin can signup and login with the correct username and password.

he/she can control all the activities such as adding questions of the courses, adding candidate details, view question list of particular courses, view candidate details also.

5.2 Implementation Architecture

In this “online examination system” the presentation layer is designed using HTML,CSS as the User Interface, the application layer is designed using PHP that runs on the server and the data layer is designed using MySQL database server (XAMPP control panel) which is installed in the computer system.

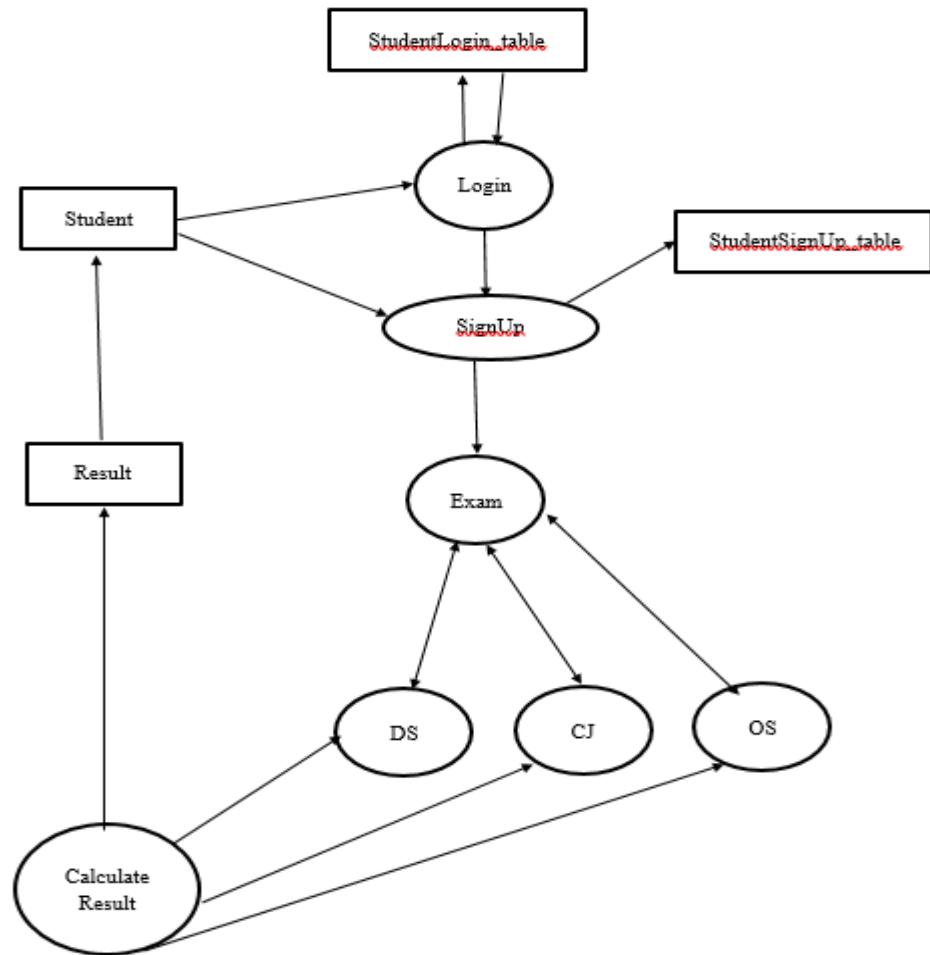


Figure 5.2.1- Data Flow Diagram of the proposed system

5.3 Project Cost and Expenses

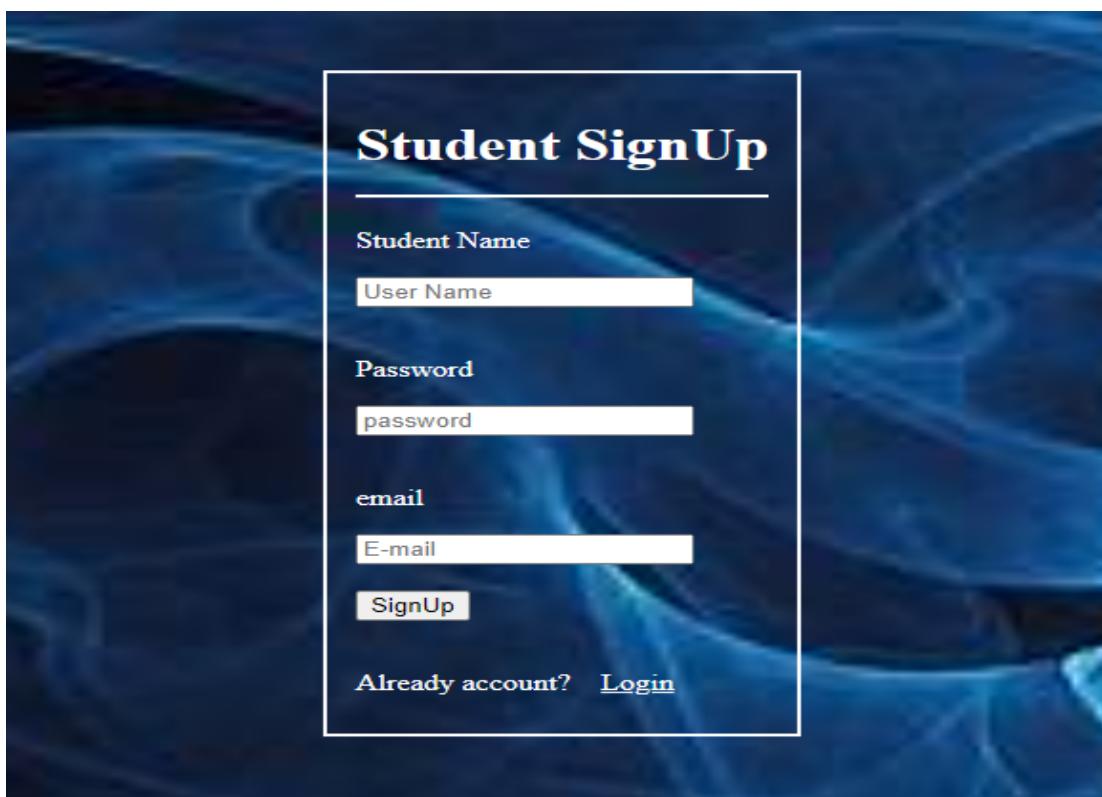
Sr. No.	Category	Expense
1.	Database	No Expense
2.	Software	No Expense
3.	Stationary	No Expense

Table 5.3.1 - Cost of Project

5.4 Results

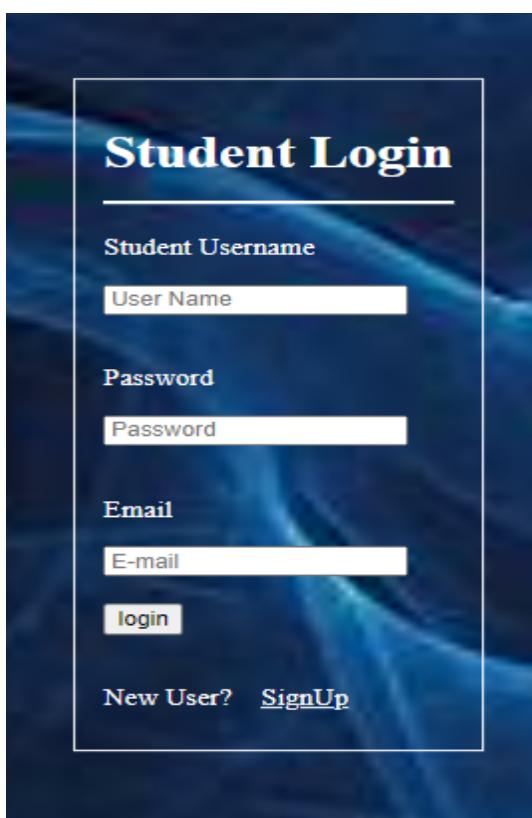
Student Module:

Registration page



The registration page features a dark blue background with a subtle wavy pattern. In the center, there is a white rectangular form with a thin black border. At the top of the form, the text "Student Sign Up" is displayed in a bold, dark blue font. Below this, there are four input fields: "Student Name" (labeled in blue), "User Name" (input field), "Password" (labeled in blue), "password" (input field), "email" (labeled in red), "E-mail" (input field), and a "SignUp" button (blue). At the bottom of the form, there is a link "Already account? [Login](#)".

Login page



The login page has a dark blue background with a wavy pattern. It contains a white rectangular form with a thin black border. At the top, the text "Student Login" is shown in a bold, dark blue font. The form includes four input fields: "Student Username" (labeled in blue), "User Name" (input field), "Password" (labeled in blue), "Password" (input field), "Email" (labeled in red), "E-mail" (input field), and a "login" button (blue). At the bottom of the form, there is a link "New User? [SignUp](#)".

Student Function

PROFILE EXAM LOGOUT

WELCOME TO ONLINE EXAM



SELECT YOUR COURSE NOW!

Update and Profile Page

Student Profile



Student Username:

Student Email:

Student Password:

UPDATE

Rules and Regulation Page

Test your knowledge

This is multiple choice quiz to test your knowledge.
Number of Questions: 10
Question Type: Multiple Choice
you will get 3 minutes for every question

[START EXAM?](#)

After clicking on the start exam and select your course button ‘Select Exam Course page’ will appear

[PROFILE](#) [EXAM](#) [LOGOUT](#)

Course Name	Total Questions	Marks	Time Limit	
Core Java	10	10	30 min	START
Data Structures	10	10	30 min	START
Operating System	10	10	30 min	START
Database Management System	10	10	30 min	START
Microprocessor	10	10	30 min	START

After clicking on the START button of CORE JAVA course following webpages will appear.

Test your Core Java knowledge

Question 1 of 10 :

Which of the following is not a Java feature? 02:54

Dynamic

Architecture Neutral

Use of pointers

Object-oriented

[Next](#)

Test your Core Java knowledge

Question 2 of 10 :

Which of the following is used to find and fix bugs in Java programs? 02:57

JVM

JDK

JRE

JDB

[Next](#)

Test your Core Java knowledge

Question 10 of 10 :

02:57

How many threads can be executed at a time?

Only one thread

Multiple threads

Only main (main() method) thread

Two threads

[Next](#)

After attempting all the questions following webpage will get displayed

Core Java Quiz Result

You're Done!

Congrats! You have completed the test

Final Score: 5 / 10

[Try Again](#)

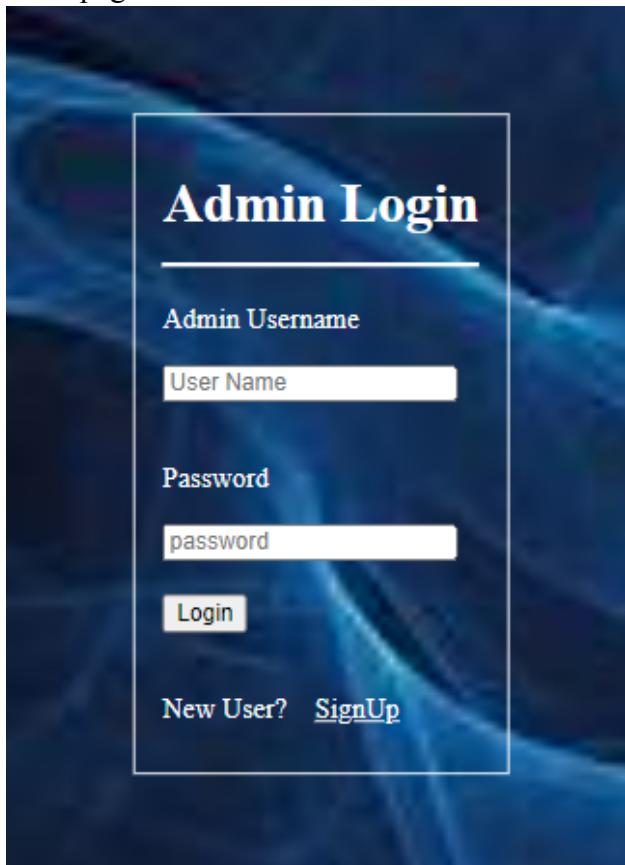
[Back to Quiz](#)

Copyright © 2021,Core Java quiz

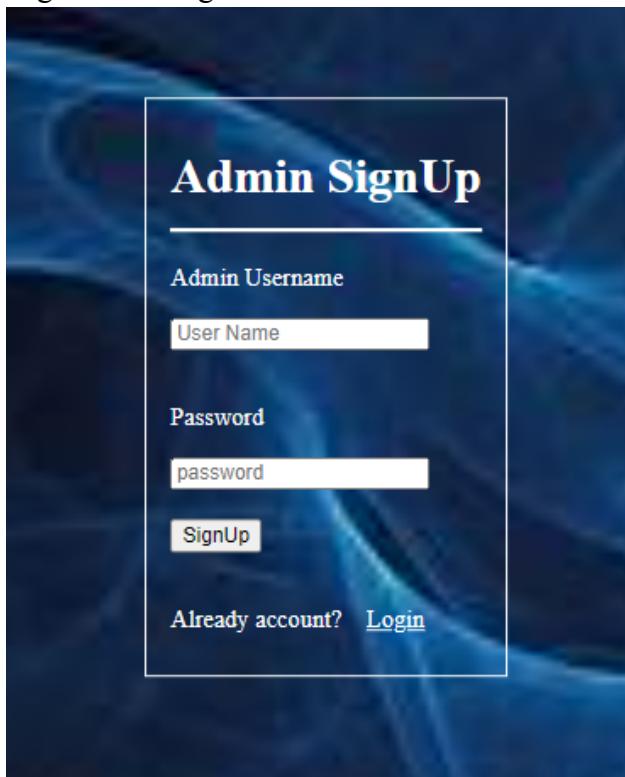
In this way we have created such a quiz for every course.

Admin Module:

Homepage



Registration Page



Admin Control

Admin Panel

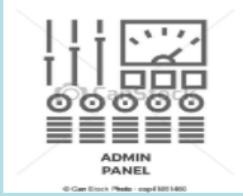
Welcome to the Admin Control Panel

[Manage Courses](#) [Add questions](#) [Add Candidate Details](#)

[View the eligible Candidates and their details here](#) [View Question List](#)

[Logout](#)

You can control the examination system from here



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Manage Courses page

Admin Panel - Manage Courses

Add Course Details

Course Name:

Course Code:

Exam Date for the Course:

Number of eligible Students appearing for this Course:

[Add](#)

Add Questions page

Admin Panel - Add Questions

Add Questions for every course here

[Add Core Java Questions here](#) [Add DBMS Questions here](#)

[Add Data Structure Questions here](#) [Add Operating Systems Questions here](#)

[Add Microprocessor Questions here](#) [Click here to go back to the Homepage](#)

Select the Course you want to add questions for.

After clicking on the ‘Core Java Questions here’ button below the webpage will be displayed.

Admin Panel - Add Core Java Questions

Course Name:

Question Number:

Input Question Here:

Option 1:

Option 2:

Option 3:

Option 4:

Enter Correct Option Number Here:

[Click here to go back to the Add Questions page](#) [Click here to go back to the Homepage](#)

After clicking on the ‘Operating Systems Questions here’ button below webpage will get displayed.

Admin Panel - Add Operating Systems Questions

Course Name:

Question Number:

Input Question Here:

Option 1:

Option 2:

Option 3:

Option 4:

Enter Correct Option Number Here:

[Click here to go back to the Add Questions page](#) [Click here to go back to the Homepage](#)

Add Candidate Details webpage

Admin Panel - Add Candidate Details

Add Candidate Details

Candidate Enrollment Number:

Candidate Name:

Candidate Username:

Candidate Password:

Candidate Email:

View Candidate Details web page

View the Details of Candidates who are appearing for the examination here

Candidate Details

Candidate Enrollment Number	Candidate Name	Candidate Username	Candidate Password	Candidate Email
FCOG19101	kiran	kiraan	12345	kiran@gmail.com
FCOG19102	KASHISH	KASH	5678	kashish@gmail.com
FCOG19103	SONIA	SONIAAA	4567	sonia@gmail.com
FCOG19104	Hiteshi	Hiteshi178	2074H	hiteshi.lodaya@gmail.com
FCOG19105	ALEX	ALEX	1611	alex@gmail.com
FCOG19106	kavya	kavyaa	1234	abc@gmail.com
FCOG19107	sankha	sankhaa	1234567	sankha.dk@gmail.com
FCOG19108	Rhea	Rhea123	5678R	rhea.lavrence@gmail.com
FCOG19109	Krishna	Krishaa56	9012K	krisha.rawal@gmail.com
FCOG19110	Shreya	Shreya72	3781S	shreya.doshi@gmail.com

[Click here to go back to the Home page](#)

Question List web page

Admin Panel - Question List

Welcome to View Question List page

[Core Java Question List](#) [DBMS Question List](#) [Data Structure Question List](#)

[Operating Systems Question List](#) [Microprocessor Question List](#)

[Click here to go back to the Homepage](#)

Here you can view the question list for every course.

After clicking on the ‘Operating Systems Questions list’ button below the webpage will be displayed.

Operating Systems Question List

Q1.

Which of the following is not an operating system?

Option 1: Windows
Option 2: linux
Option 3: oracle
Option 4: DOS

Correct Option: 3

Q2.

What is the maximum length of the filename in DOS?

Option 1: 4
Option 2: 5
Option 3: 8
Option 4: 12

Correct Option: 3

CHAPTER- 6

CONCLUSION AND FUTURE WORK

6.1 Future Work

- This can be used in educational institutions as well as in the corporate world.
We can implement this application.
- We can update it for the next version.
- We can add new features as and when we require.
- There is flexibility in all the modules.
- It is highly likely that the scope will change as the web application project moves forward
- Can add more security and functions so that there will be less chances of malpractice

6.2 Conclusion

The Project Online Examination was assigned to us for industrial training and we were told to make a small project. In order to complete this project we have gone through several websites and several online books of Software management. While going through these books and websites we enhanced our limited knowledge on these vast subjects which was not achieved through our semester papers. We have definitely gained a lot from this project as we came to know how to use SQL Server and which was never known to us. Now we are able to make websites on any given requirement and these are all possible after we have done this industrial training.

CHAPTER 7:

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Websites: -

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3. www.javapoint.com
4. www.codeacademy.com
5. www.youtube.com
6. www.google.com

APPENDIX

Questionnaire Form

Q1. Will you as a user use this computer based online examination?

- Yes
- No

Q2. Which examination system do you prefer more online or offline?

- Online examination system
- Offline examination system

Q3. According to you what improvement / improvements should be made in our

project or no improvements should be made the project is perfect as it is?

- No improvements are to be made
- Improvements are to be made. State below what improvements should be made:

Q4. According to you, does online exams take more time or offline exams consume

more time for completing the test?

- Online exams take more time and offline exams consume less time
- Offline exams consume more time and online exams take less time

Q5. Do you prefer to use a computer or a laptop for taking the examination as a student and as an admin do you prefer to use a laptop or a computer to organizing the exam?

As a student

- Laptops
- Computers

As an administrator

- Laptops
- Computers