

**PURBANCHAL UNIVERSITY**



**DEPARTMENT OF COMPUTER ENGINEERING**

**KHWOPA ENGINEERING COLLEGE**

**LIBALI-2, BHAKTAPUR**

**A MID DEFENSE REPORT**

**ON**

**ONLINE MCQ EXAMINATION SYSTEM**

Project work submitted in partial fulfillment of requirements for the award of the degree of  
Bachelor of Engineering in Computer Engineering ( Fifth Semester)

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## **LIST OF ABBREVIATIONS**

**HTML:** Hypertext Markup Language

**CSS:** Cascading Style Sheets

**JS:** JavaScript

**PHP:** Hypertext Processor

# **CHAPTER 1**

## **INTRODUCTION**

### **1.1 BACKGROUND**

Online MCQ Examination System is a system that allow for multiple choice questions to be answered and graded digitally, saving time and reducing errors. They also provide greater accessibility and flexibility for students with disabilities or busy schedules. Online MCQ examination systems offer several benefits over hand-written exams. They are more efficient and cost-effective. They also provide greater accuracy and consistency in grading. Online MCQ examination systems offer a more effective and engaging way to assess student learning [1].

It also reduces cost, as online exams eliminate the need for paper, printing, and manual grading. This can result in significant cost savings for institutions and organizations that administer large numbers of exams. Additionally, online exams are often more accurate than paper-based exams, as they can be designed to prevent errors such as misreading or misinterpreting answers.

### **1.2 MOTIVATION**

This system will be able to handle many services to take care of all student's records in a quick manner. This system will save time and paper work and make examination more systematic and disciplined. The web enabled examination system can be accessed from anywhere through the internet. Online Examination System is cheaper than traditional system. On completion of this online examination system institution can save money and many hours of human work. This system support objective as well as short descriptive questions. At present time many companies are following automatic system for aptitude test in placement.

### **1.3 STATEMENT OF PROBLEMS**

One common challenge that institutions or organizations may face when implementing online MCQ examination systems is technical difficulties. These can include issues with the platform itself, such as slow loading times or system crashes, as well as problems with internet connectivity or hardware compatibility. To address these challenges, it is important to thoroughly test the system before implementation and provide technical support for both instructors and students.

### **1.4 OBJECTIVES**

Our objective is to make sure that the student is thoroughly aware of the course curriculum and that the exam reflects the course content he/she has studied.

## **1.5 SCOPE AND LIMITATION**

This includes providing students with information about the format of the exam, the types of questions that will be asked, and the time limit for completion. In addition, it is important to communicate the consequences of cheating or other forms of academic misconduct.

- Technical problems or connection errors may occur.
- The context of the examinee may be incompatible with taking the exam.
- The student may lack concentration due to not having the habit of virtual work.
- There is a risk of hacking the online exam by impersonation, involvement of third parties, or consultation of unauthorized sources.

## **CHAPTER 2**

### **LITERATURE REVIEW**

With the PC and organization innovations broadly utilized, numerous PC applications dependent on Web have been created. Online MCQ Examination framework is the one which permit understudies or students to do exercise or tests through PC. It decreases the outstanding task at hand of educators, yet additionally accomplishes the objectivity and fairness of assessment. In the previous quite a while, numerous assessment frameworks have arisen. An Online MCQ Framework is an Online test system is to take Online Assessment, test in a successful way and no time squandering for physically checking of the test paper.

Online MCQ is the pivotal parts among online training. It is productive and quick enough and diminishes the enormous measure of material assets. Assessment framework is created dependent on web[2]. This paper portrays the rule of the planned framework, that presents the primary elements of the framework, dissects the calculation of auto-creating test paper, and examines the security of the framework.



## CHAPTER 3

### PROJECT MANAGEMENT

#### 3.1 TEAM MANAGEMENT

In order to complete and present the project proposal in well-manner, we manage a group with four members. They are:

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Jenisha Shrestha (770315)

Kritima Shrestha (770318)

Saragam Adhikari (770337)

#### 3.2 GANTT CHART

Task/Weeks	1	2	3	4	5	6	7	8	9	10	11
Collecting requirements											
Coding and development											
Testing and debugging											
Documentation											

Fig 3.2 Gantt Chart

## CHAPTER 4

### METHODOLOGY

#### 4.1 GENERIC MODEL

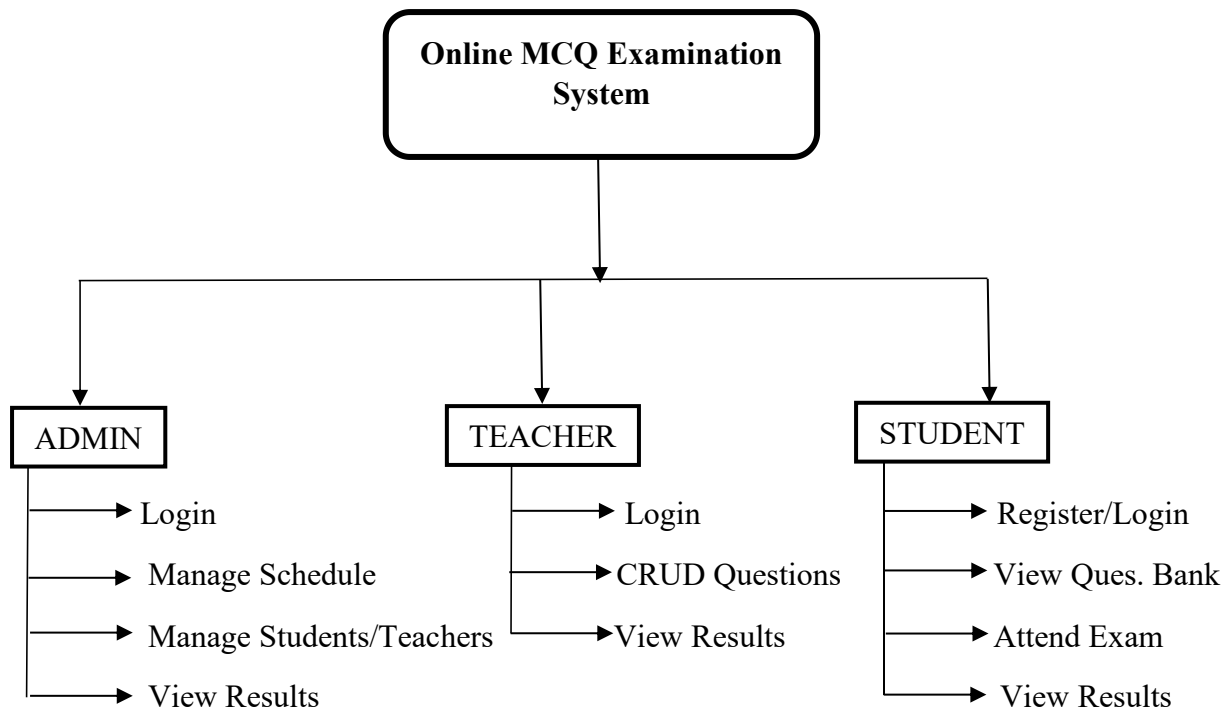


Fig 4.1: Generic Model

#### 4.2 CONTEXT DIAGRAM

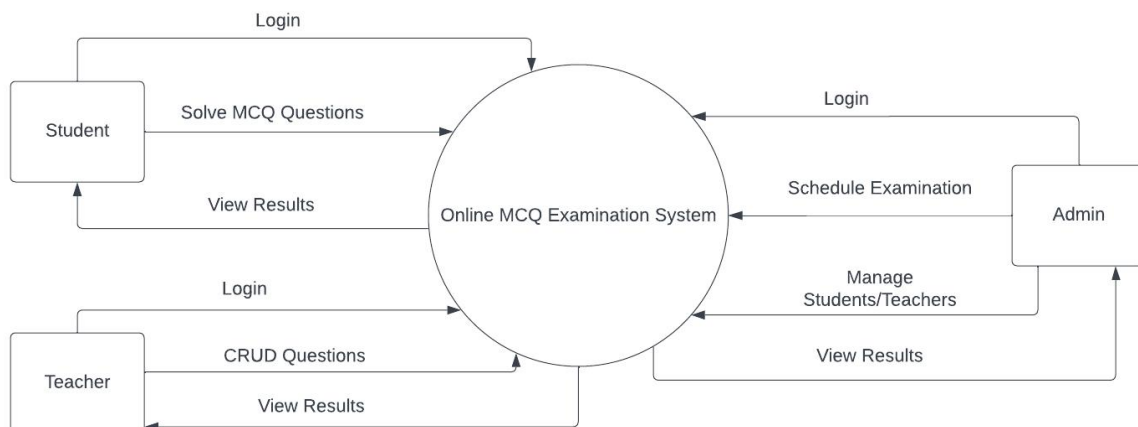


Fig 4.2 Context Diagram

### 4.3 DATA FLOW DIAGRAM

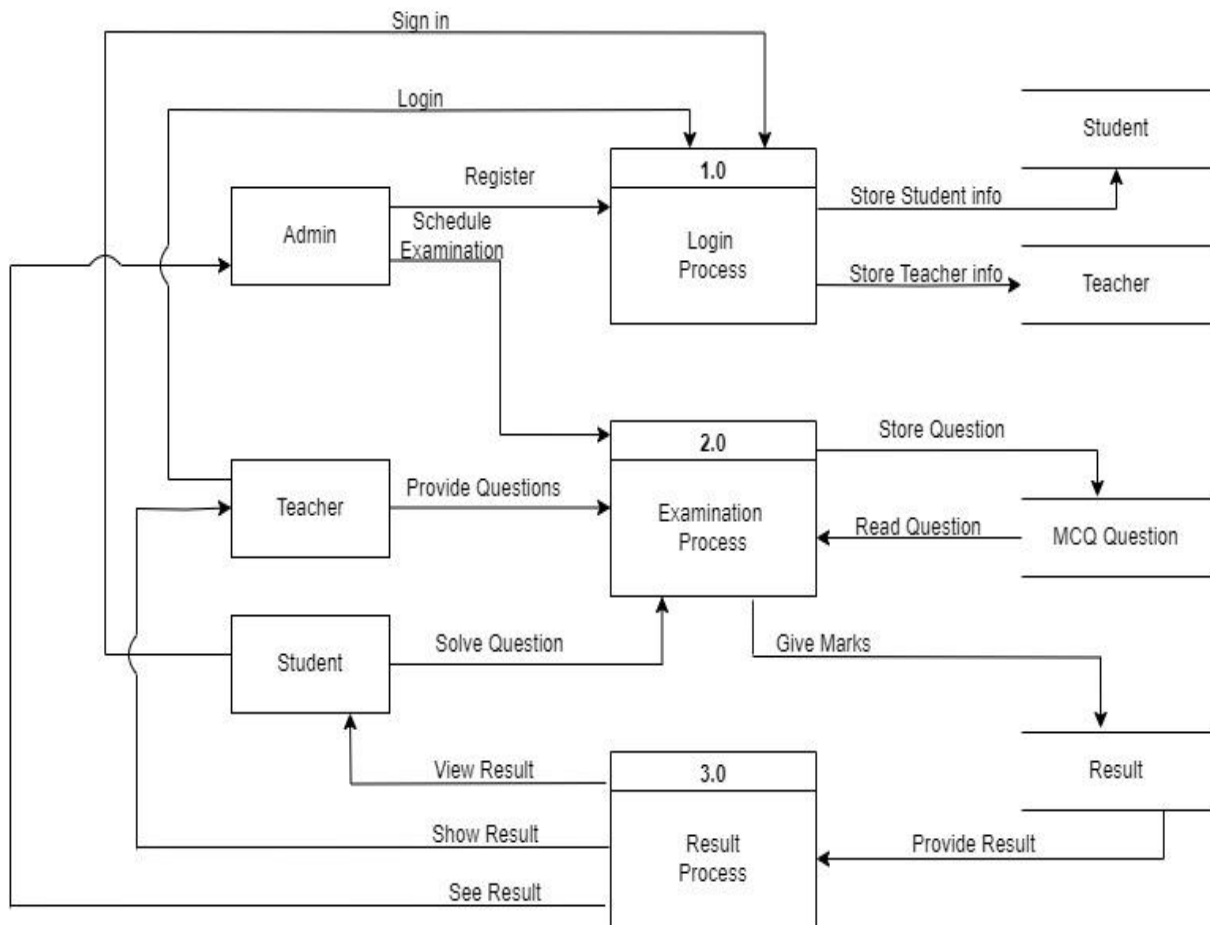


Fig 4.3 DFD of Online Examination System

## 4.4 FLOW CHART

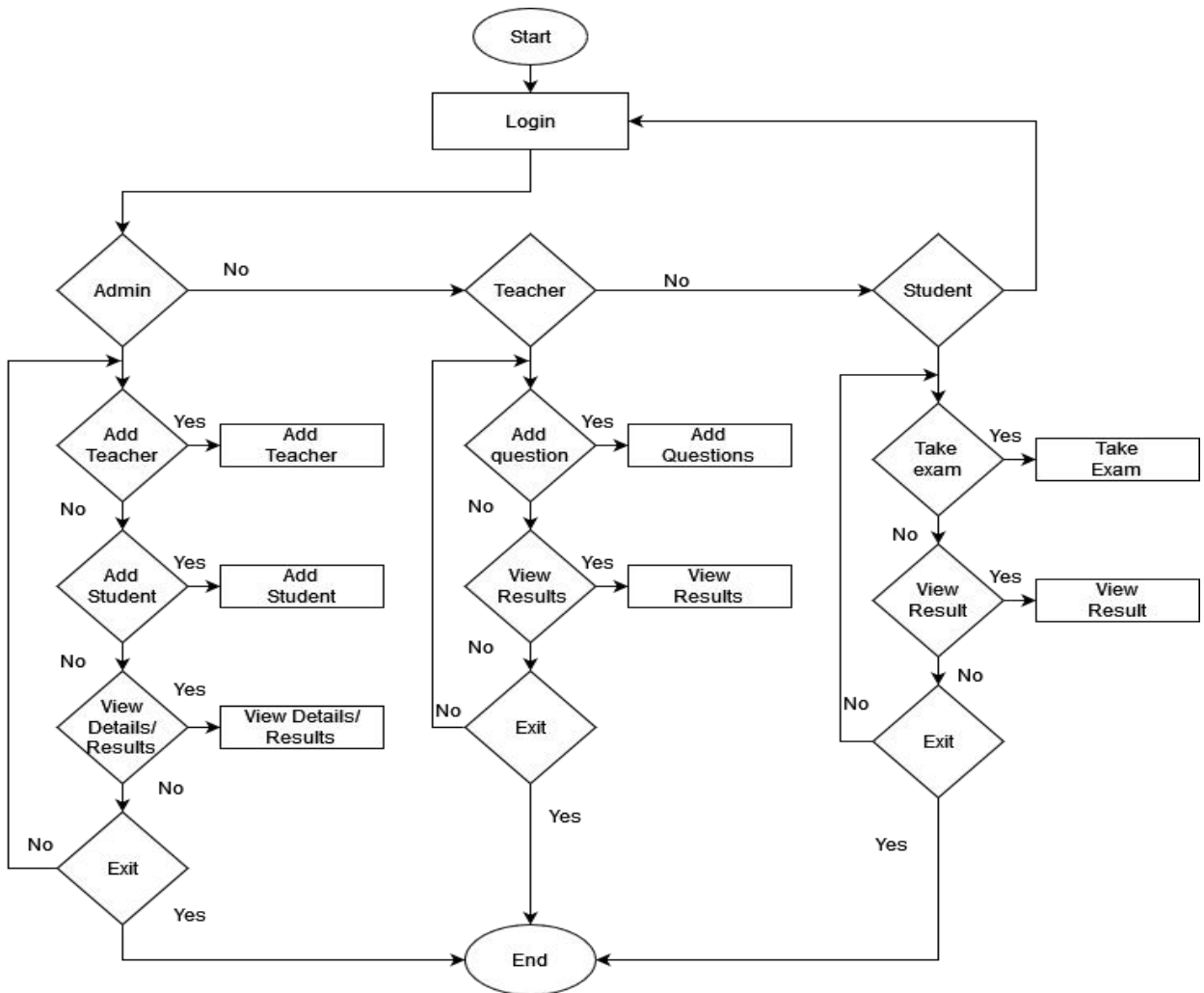


Fig 4.4: FLOW CHART

## 4.5 ER-DIAGRAM

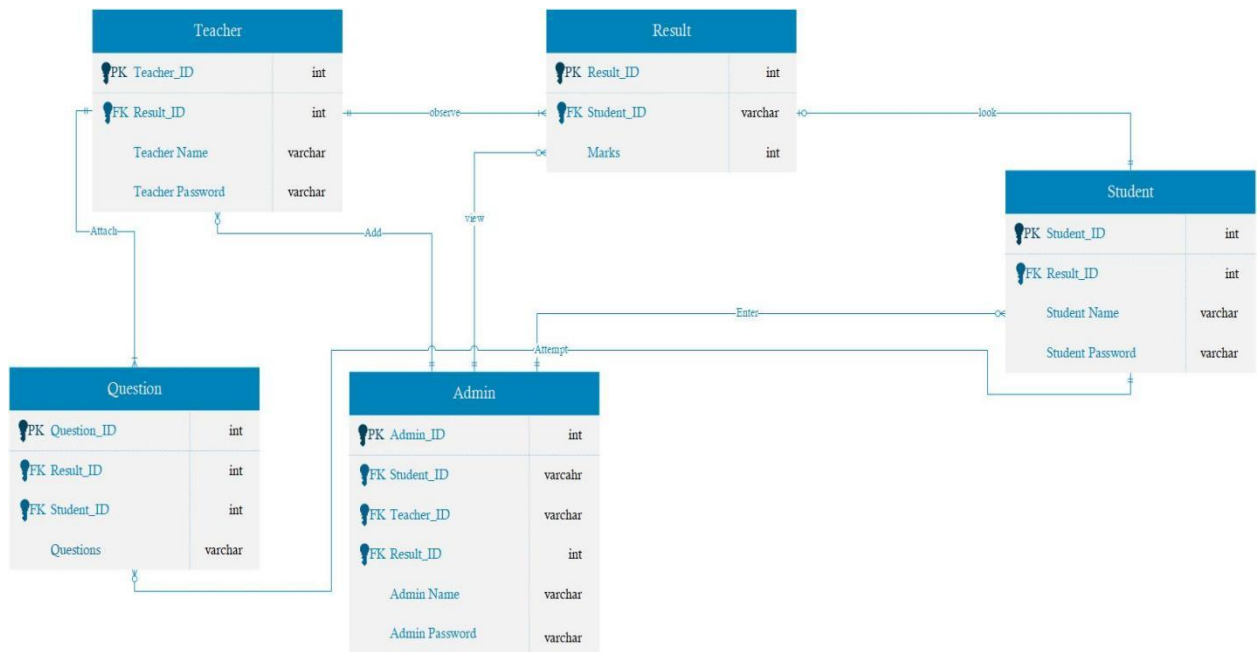


Fig 4.5: ER-DIAGRAM

## 4.5 TOOLS AND PLATFORM

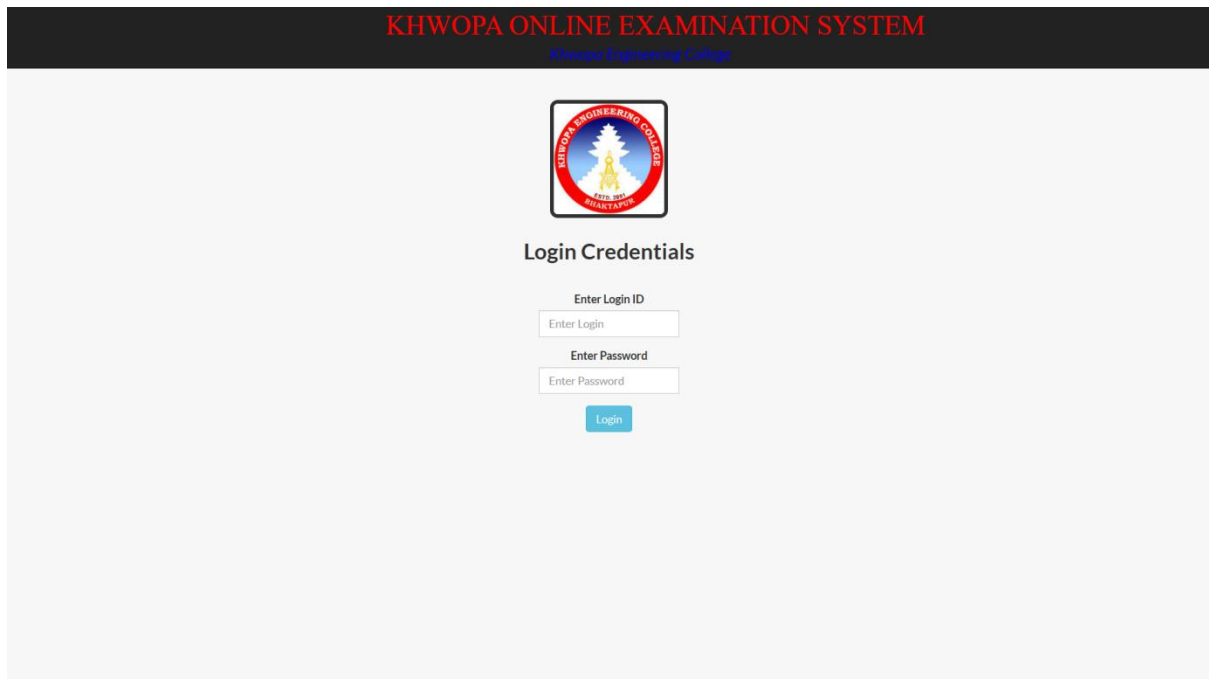
- HTML
- CSS
- JS
- PHP
- MySQL

## CHAPTER 5

### RESULT AND DISCUSSION

#### 5.1 OUTPUT

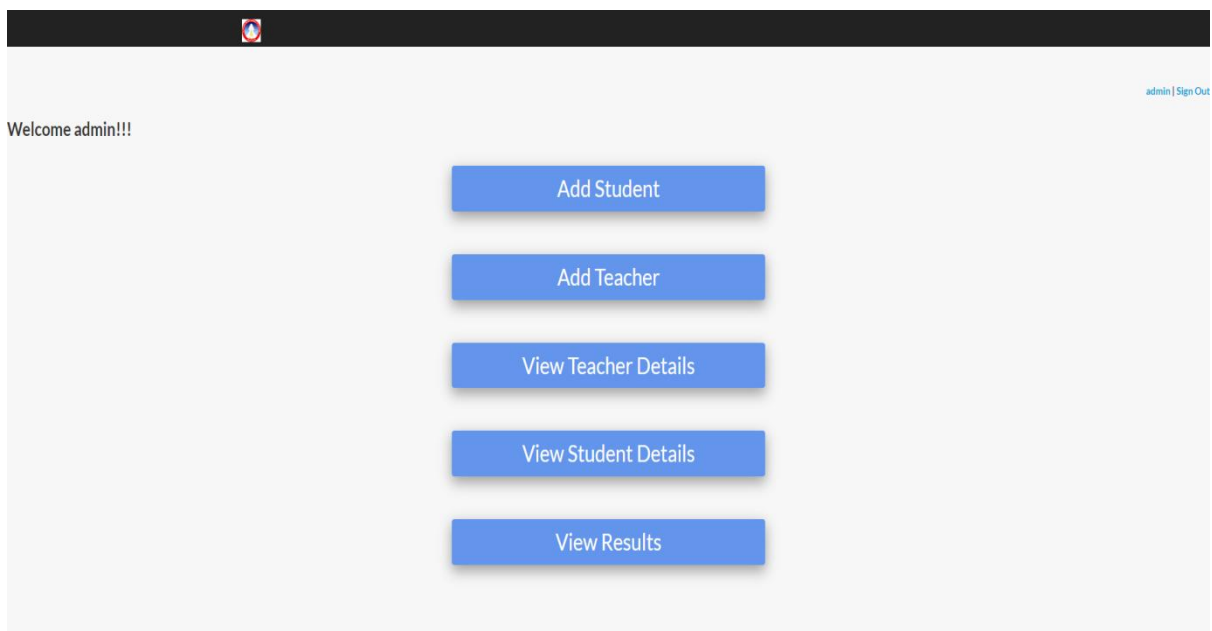
##### 5.1.1 Login Page



The screenshot shows the login page of the KHWOPA Online Examination System. At the top, a black header bar contains the text "KHWOPA ONLINE EXAMINATION SYSTEM" in red and "Khwopa Engineering College" in blue. Below the header is a large light gray area. In the center, there is a circular logo for Khwopa Engineering College. Below the logo, the text "Login Credentials" is displayed. Underneath, there are two input fields: "Enter Login ID" with a sub-label "Enter Login" and "Enter Password" with a sub-label "Enter Password". A blue "Login" button is positioned below the password field.

##### 5.1.1 Index Page

##### 5.1.2 Admin Page



The screenshot shows the admin page of the system. At the top, a black header bar contains a small red and white icon on the left and "admin | Sign Out" in blue on the right. Below the header, the text "Welcome admin!!!" is displayed on the left. In the center, there are five blue buttons stacked vertically: "Add Student", "Add Teacher", "View Teacher Details", "View Student Details", and "View Results".

##### 5.1.2 Admin Page

### 5.1.3 Sign up Page

## Sign Up

1

Username

Enter User Name

Full Name

Enter Full Name

USN

Enter University Seat No.

Email address

Enter Email address

Gender

☐ Male

☐ Female

Phone No.

Enter Phone Number

Password

Password


Confirm password

Password

Add

### 5.1.3 Sign up (student/teacher) Page

### 5.1.4 View details page



admin | [Sign Out](#)


## Student Details

[Back](#)

USN	Student Name	Email	Phone no.
1si13cs106	Kushal Vaidya	2147483647	kushal123@gmail.com
770346	Surag Basukala	2147483647	basukalasurag45@gmail.com
770337	saragam adhikari	9841111111	saragam@gmail.com
770301	alisha	2147483647	alisha@gmail.com

Fig 5.1.4 View details page

### 5.1.5 View Result



admin | Sign Out


RESULT

[Back](#)

USN	Student Name	Result	Date
770301	alisha	4	2024-01-18

Fig 5.1.5 View Result

### 5.1.6 Teacher Page



surag007 | Sign Out

Welcome Teacher!!!

Add Questions

View Results

Fig 5.1.6 Teacher Page



### 5.1.7 Subject Options

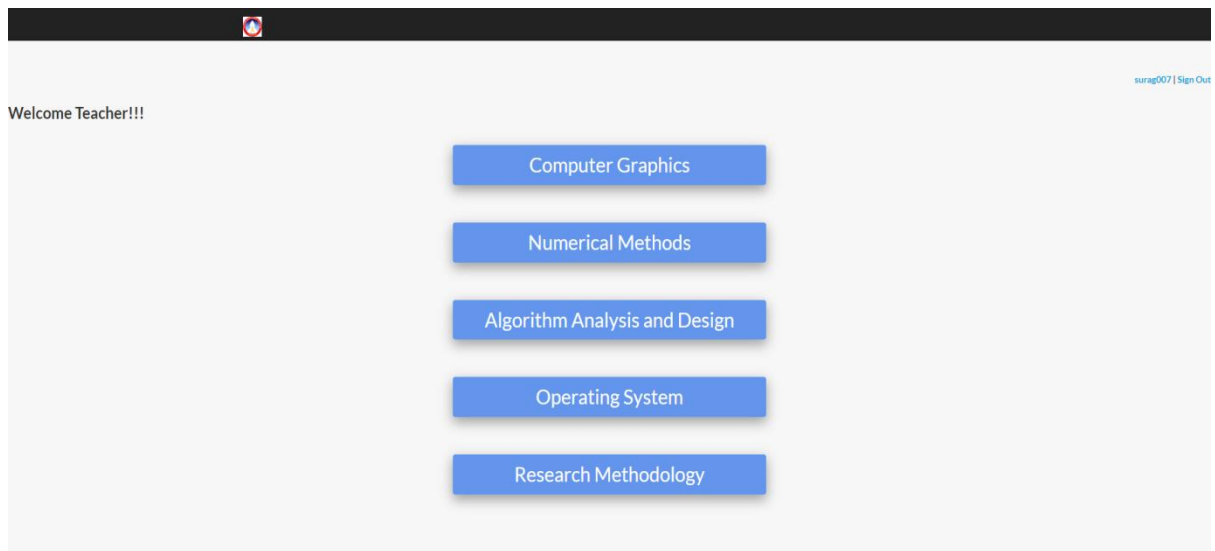


Fig 5..7 Subject Options

### 5.1.8 Add Question

The screenshot shows a web application interface for adding a question. At the top, there is a black header bar with a small logo on the left and the text "surag007 | Sign Out" on the right. Below the header, the main content area has a light gray background. In the center, there is a form titled "Add Questions". The form contains several input fields and a dropdown menu. The first field is a large text area labeled "Enter Question". Below it are four smaller text input fields labeled "Enter Option A", "Enter Option B", "Enter Option C", and "Enter Option D". Below these is a dropdown menu labeled "Enter Correct Answer" with "Option A" selected. A blue "Add" button is located at the bottom right of the form.

Fig 5.1.8 Add Question

### 5.1.9 User Page

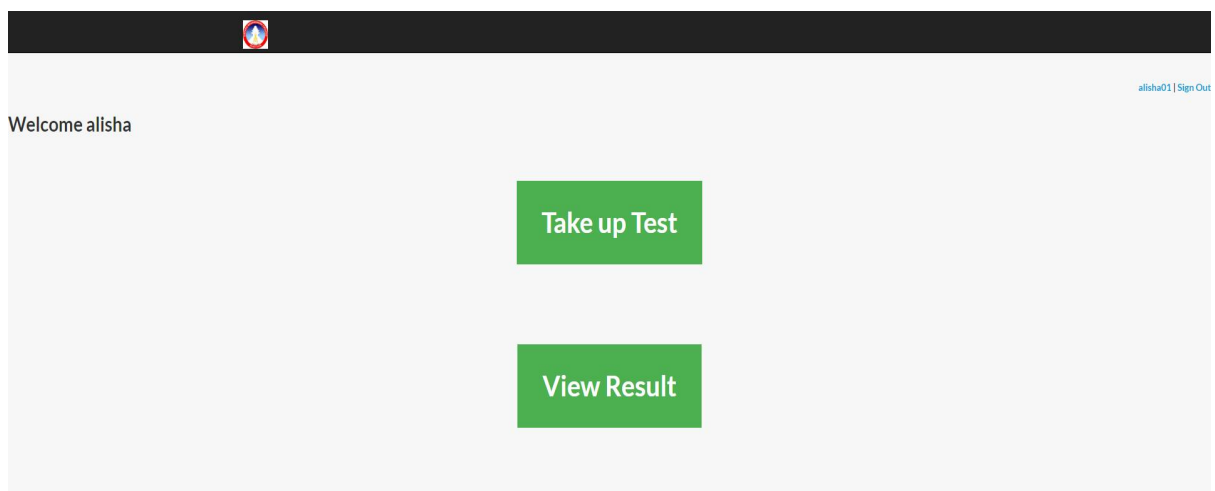


Fig 5..9 User Page

### 5.1.10 Subject Options

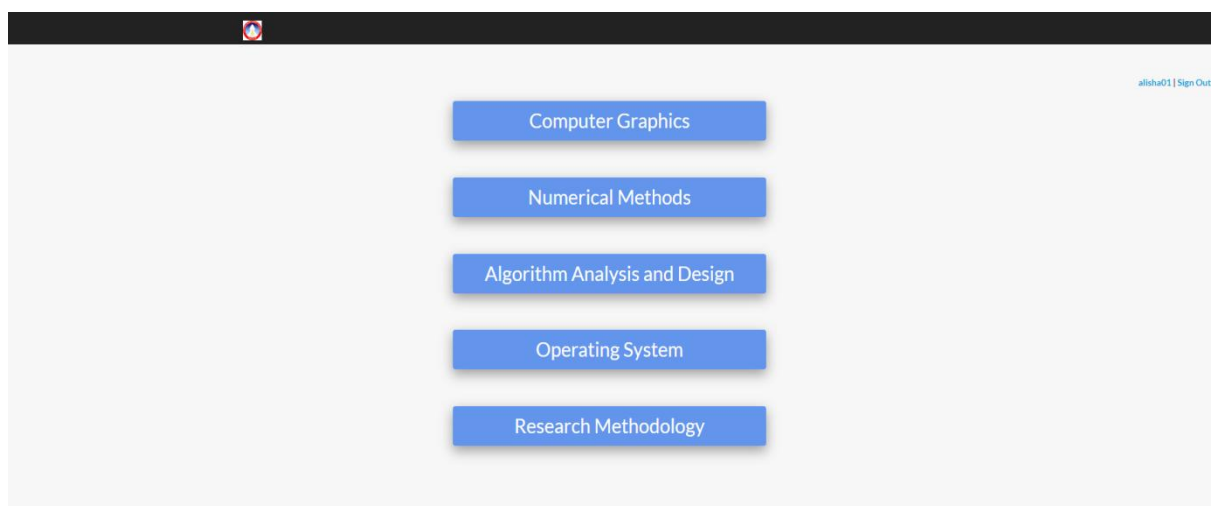


Fig 5..10 Subject options for students

### 5.1.11 MCQ Section

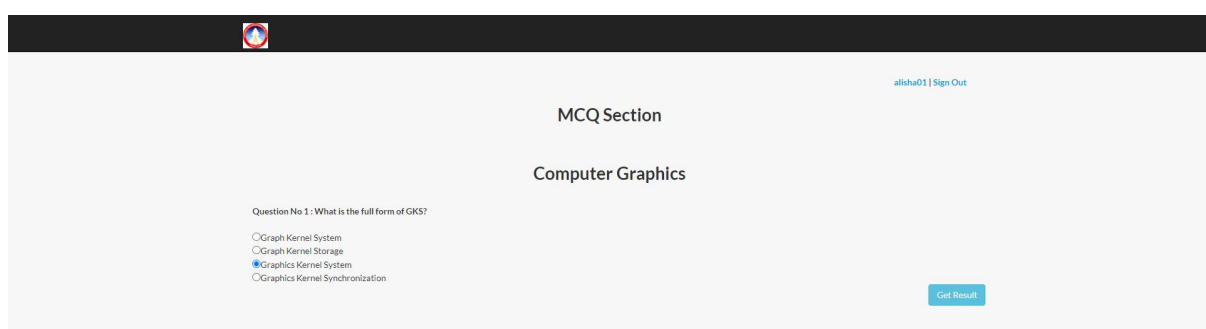


Fig 5.1.11 MCQ Section

### 5.1.12 Results

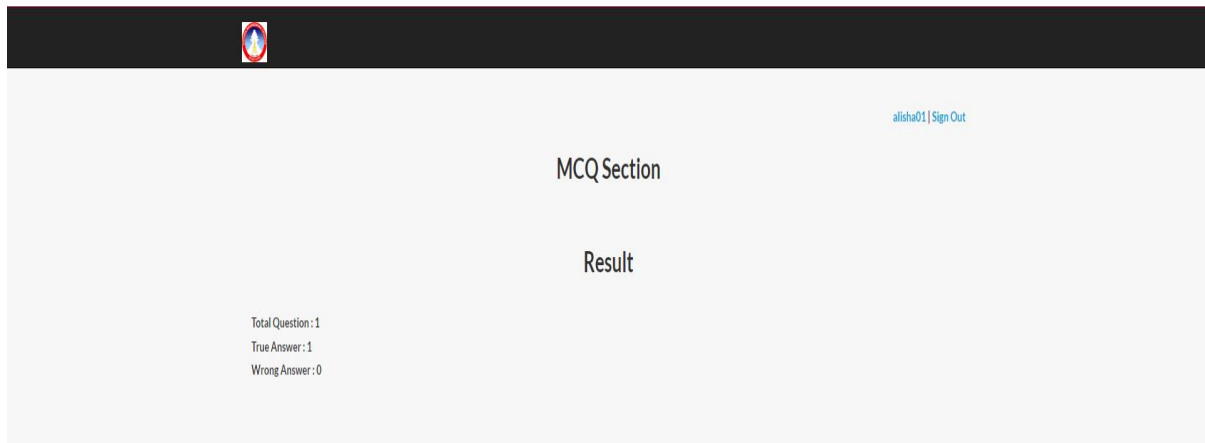


Fig 5.1.12 Results

### 5.2 REMAINING WORK

Some of the works remained to perform are:

- Time Scheduling by admin
- Addition of time limit
- View Overall Result
- Add Old Question Bank

## REFERENCES

1. <https://www.eklavya.com/blog/online-examination-system/> Accessed on (08/01/2024)
2. <https://chat.openai.com/> Accessed on (08/01/2024)