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V.L.Shah College of Commerce (Guj.Med.) & Sutex Bank College of Computer Applications &  
Science, Amroli (Accredited 'B' (CGPA 2.55) by NAAC Dec.-2009) VEER NARMAD SOUTH  
GUJARAT UNIVERSITY, SURAT

Minor Project Presentation for the degree of  
Bachelor of Computer Applications  
(BCA 5th Semester) Year : 2025-26

## Online Examination System

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# *ONLINE*

# *EXAMINATION*

# *SYSTEM*

A streamlined solution for the exam process by  
significantly reducing manual work



# KEY CONCEPTS :

## Student Module:

- Allows students to create accounts and log in with unique credentials.
- Admin Authentication: Admins and examiners can log in with secure credentials and access the system.

## Admin module:

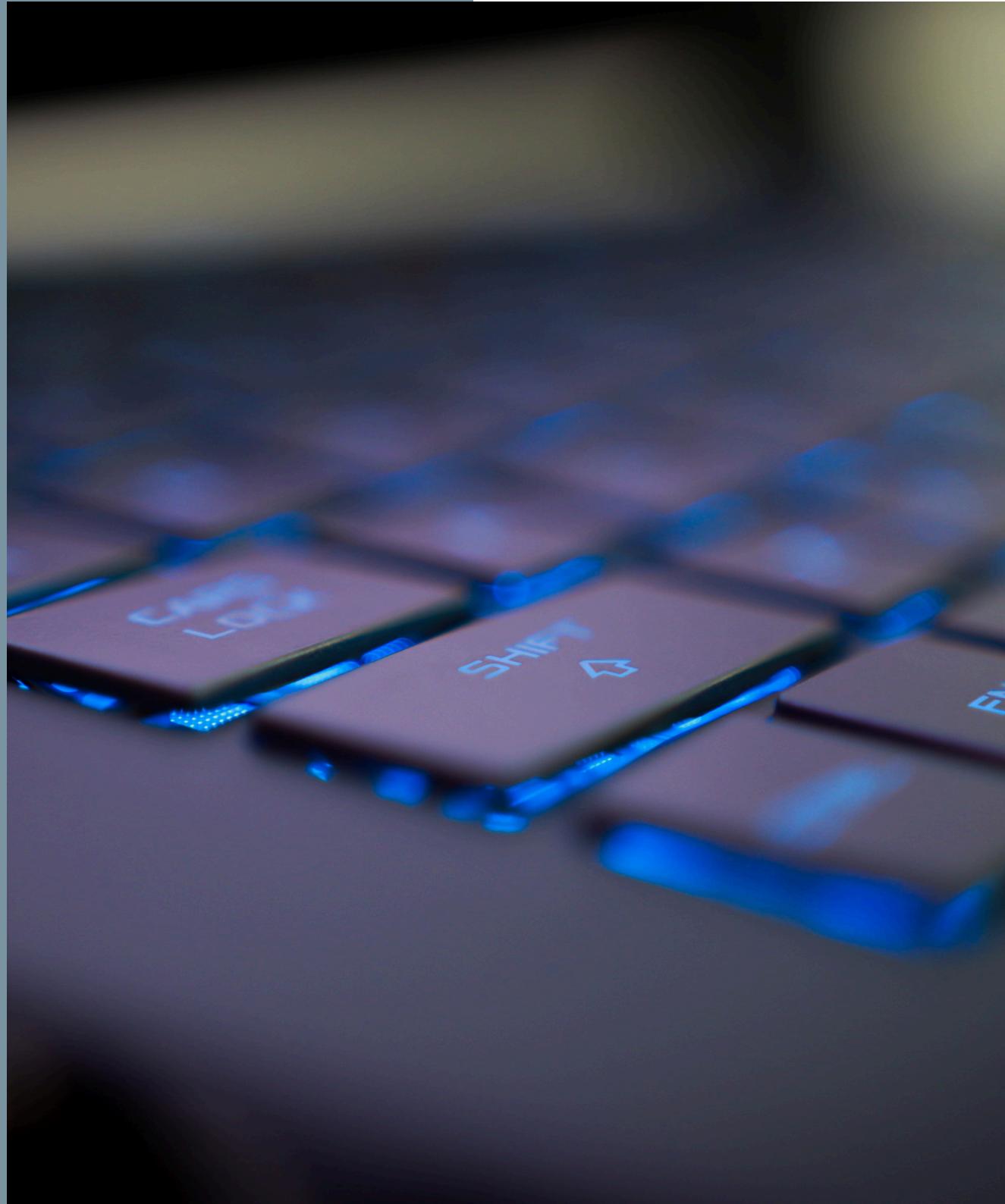
- Admin can manage students, examiners, and other admin accounts.
- Exam Creation and Scheduling: Admin can create exams, define exam details (date, time, duration), and set question formats.

## Exam Management Module:

- Create Exam Papers: Admins or examiners can create exams by selecting questions from the question bank or creating new ones.
- Time Limit Settings: Define total exam time and time for specific sections (if applicable)..



# TECHNOLOGY USED:



Front end : Html,JS

Styling : Css,Bootstrap

Backend : PHP

Database : MySQL



# PROBLEM STATEMENT & OPPORTUNITY :



## Challenges:

- Traditional pen-and-paper examinations are time-consuming, labor-intensive, and prone to errors. They also limit the ability to assess students' skills and knowledge in a comprehensive and efficient manner. Furthermore, the COVID-19 pandemic has accelerated the need for remote assessment solutions.

## Opportunities:

- Design and develop an online examination system that provides a secure, efficient, and user-friendly platform for conducting examinations. The system should enable educators to create, administer, and grade exams online, while also providing students with a flexible and accessible way to take exams remotely.

# *OBJECTIVE & GOAL :*

## **Objective:**

- To design and develop a secure, efficient, and user-friendly online examination system.

## **Goal:**

- To provide a flexible and accessible platform for students to take exams remotely, while improving exam administration efficiency, reducing grading errors, and enhancing the overall learning experience



# *BENEFITS :*



## **Cost and Time Efficiency :**

- Reduces administrative efforts, paper costs, and exam logistics.

## **Accessibility :**

- Allows students to take exams from anywhere and at any time..

## **Data Analytics:**

- Provides detailed performance reports for students and insights for institutions.

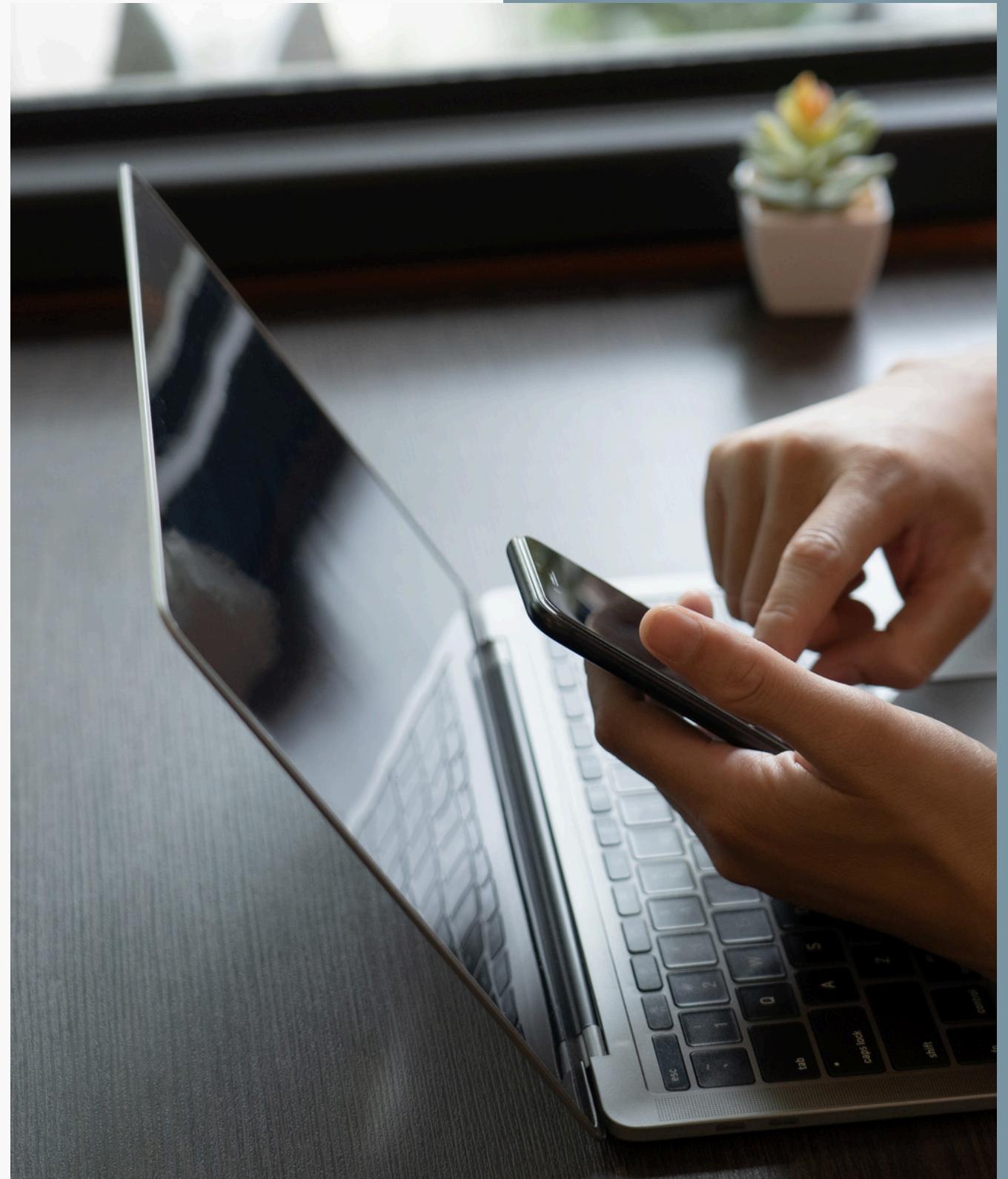
## **Flexibility:**

- Customizable exam formats and schedules to suit various needs.

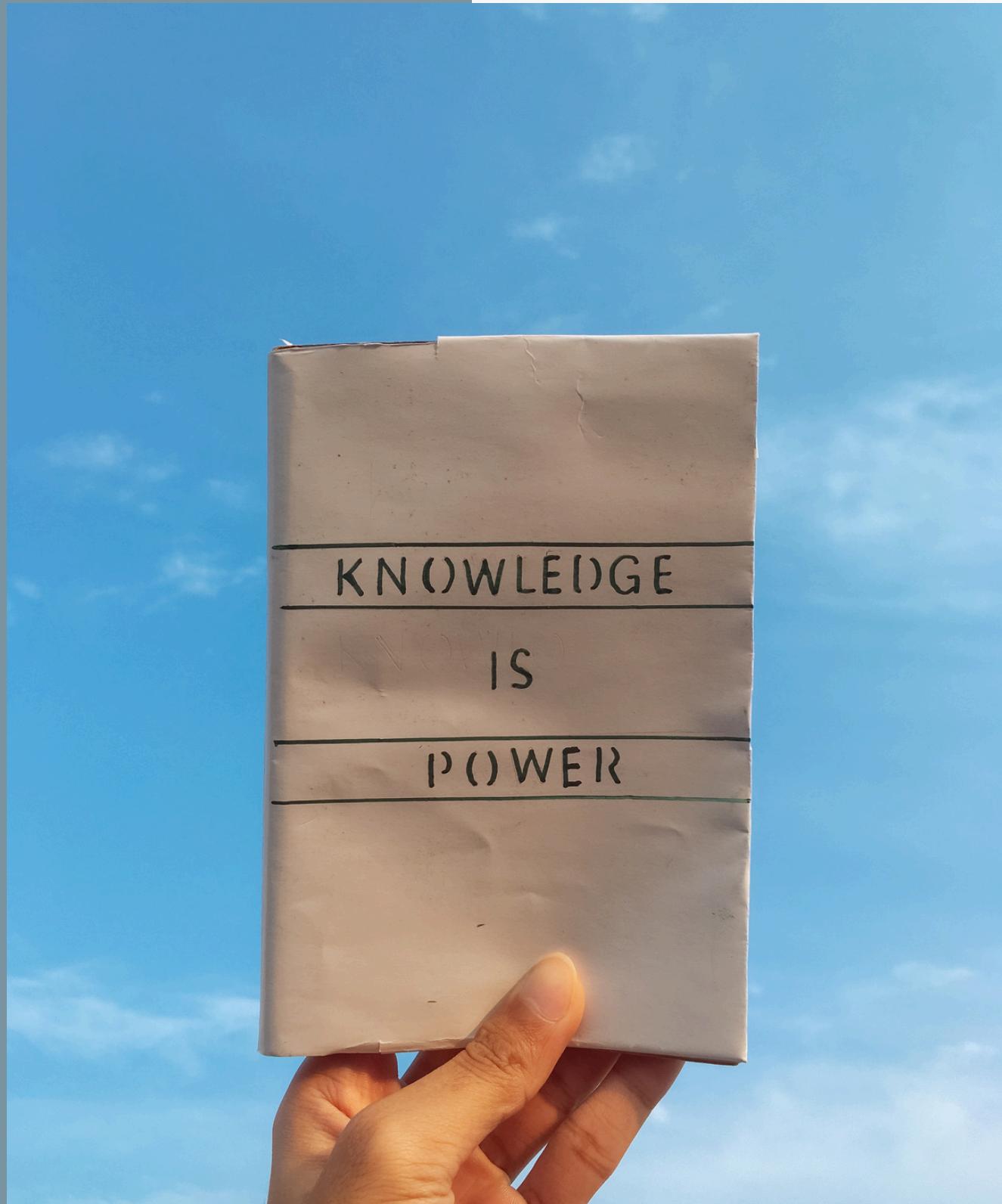


# *FUTURE IMPROVEMENTS :*

- **Role-Based Access Control (RBAC):** Improvement: Define different access levels for students, teachers, and administrators.  
Benefits: Ensures security and better management of the system.
- **Mobile App Integration:**  
Improvement: Develop a mobile-friendly app for Android and iOS.  
Benefits: Increases accessibility for students using smartphones.



# *KNOWN ISSUES:*



## **Duplicate Complaints :**

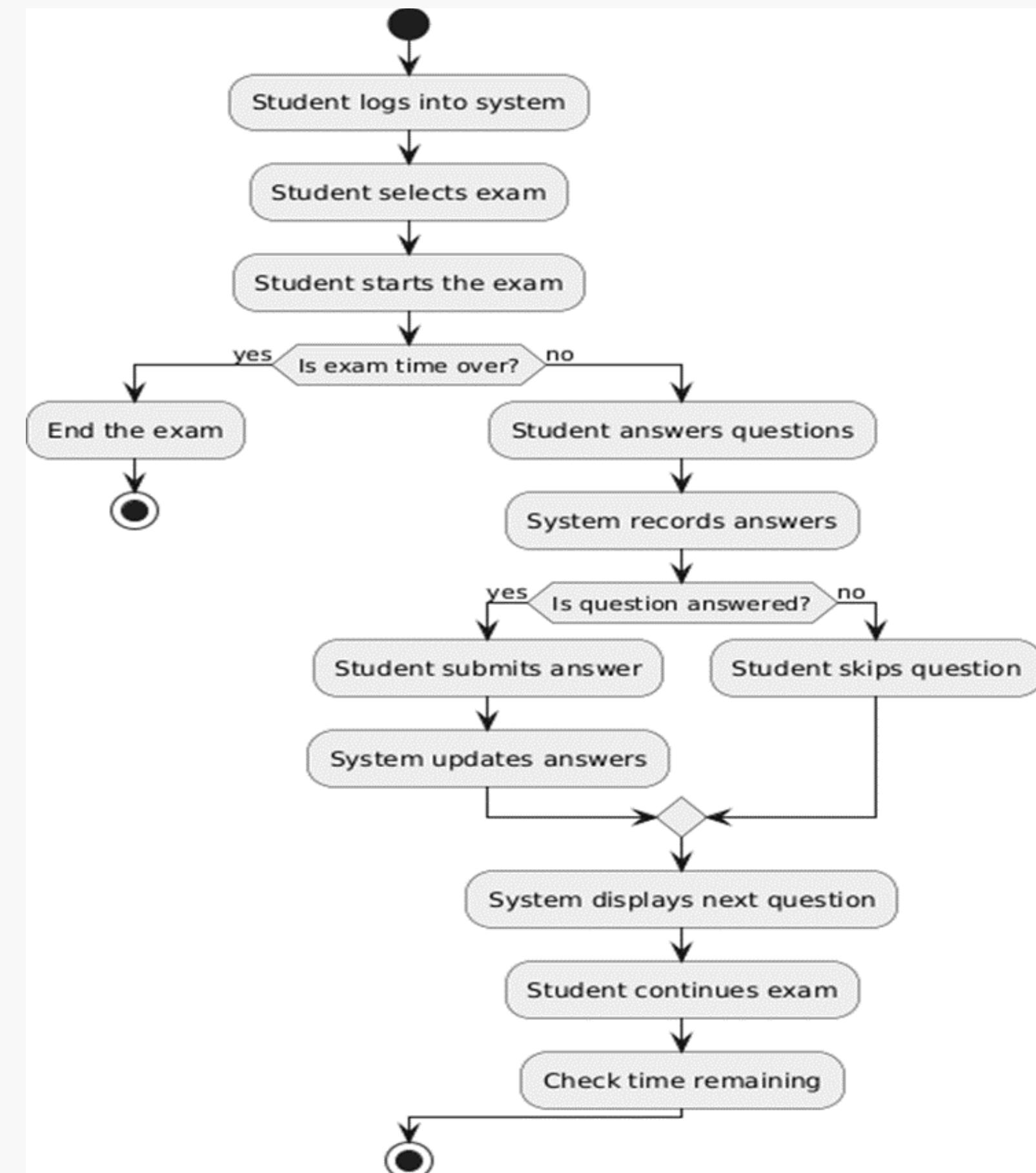
- High traffic or simultaneous user logins can cause server overload, leading to slow response times or system crashes.
- Poor internet connectivity or network outages can disrupt the examination process.



# User Process Flow Diagram

## Student Process Flow :

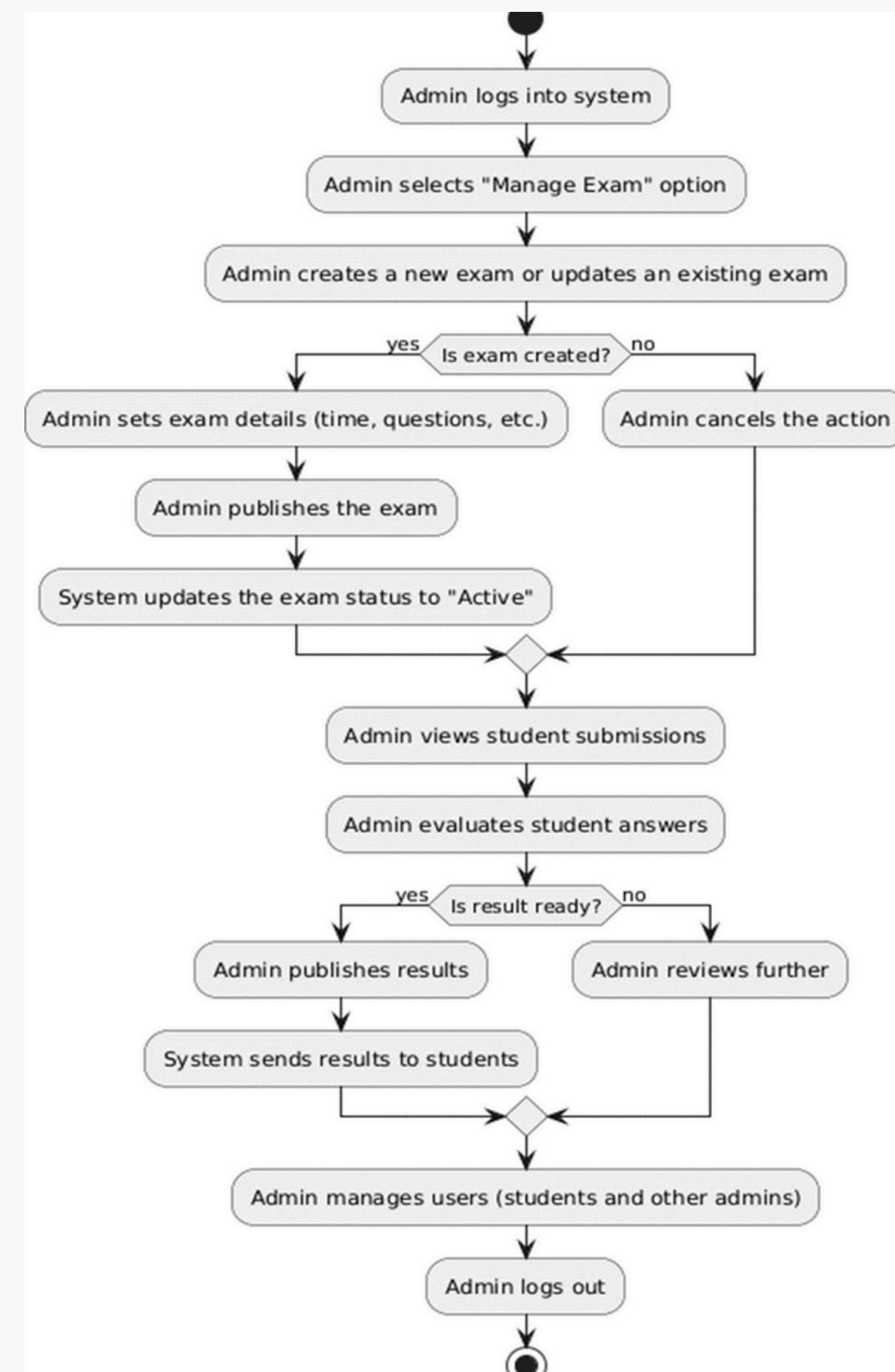
- Login through credential given by collage.
- Navigate to the complaints submission page.
- Fill complaint form and Submit the complaint.
- View status in Dashboard for tracking.



# User Process Flow Diagram

## Admin Process Flow :

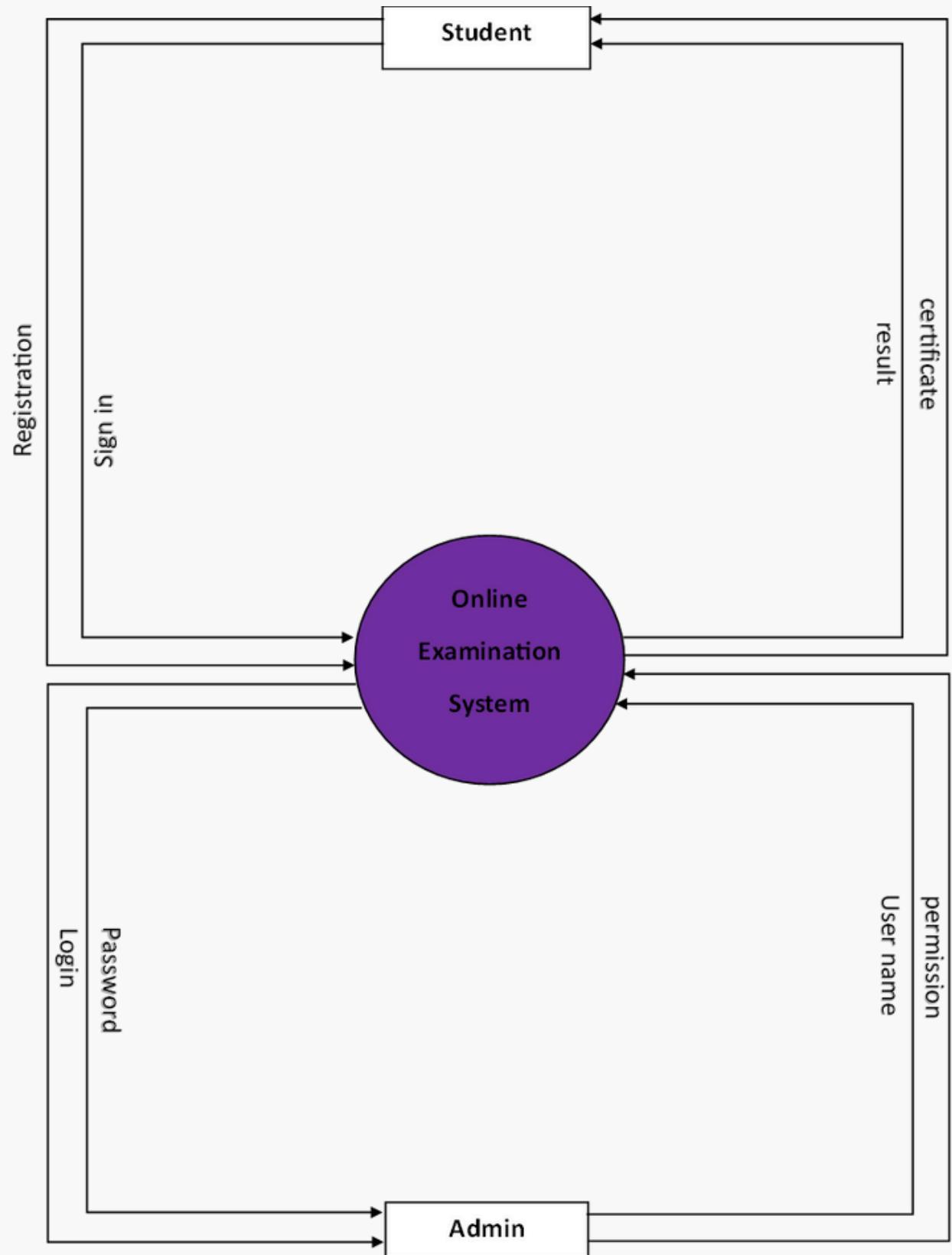
- Log in or register.
- View all complaints in the system.
- Manage user accounts (admin/student).
- Oversee the complaint resolution process.



# DATA FLOW DIAGRAM :

## DFD LEVEL 0 :

- This diagram shows the data flow between users (Student, Admin), the frontend, the backend server, and the database.

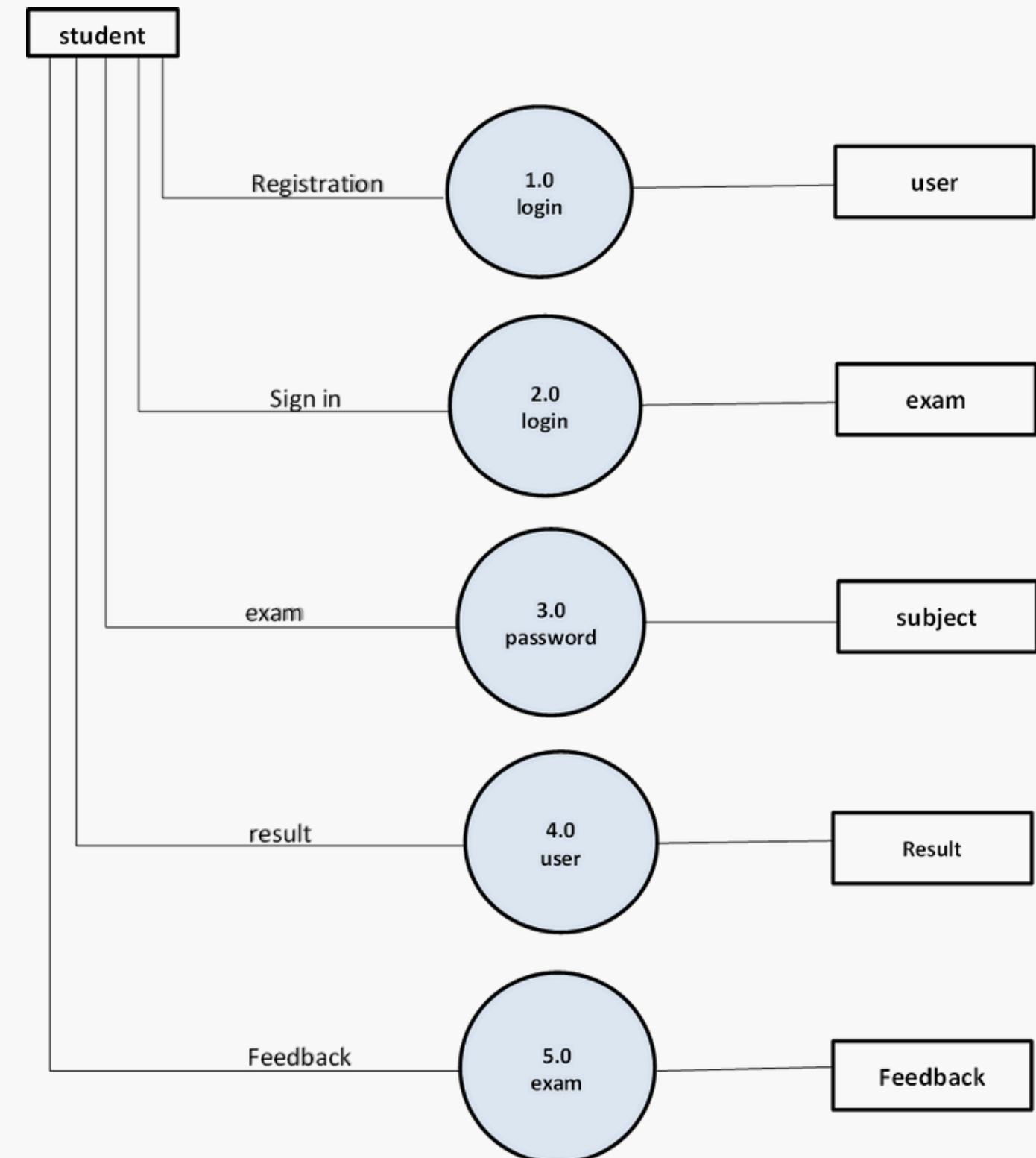


# DATA FLOW DIAGRAM :

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## DFD LEVEL 1-STUDENT:

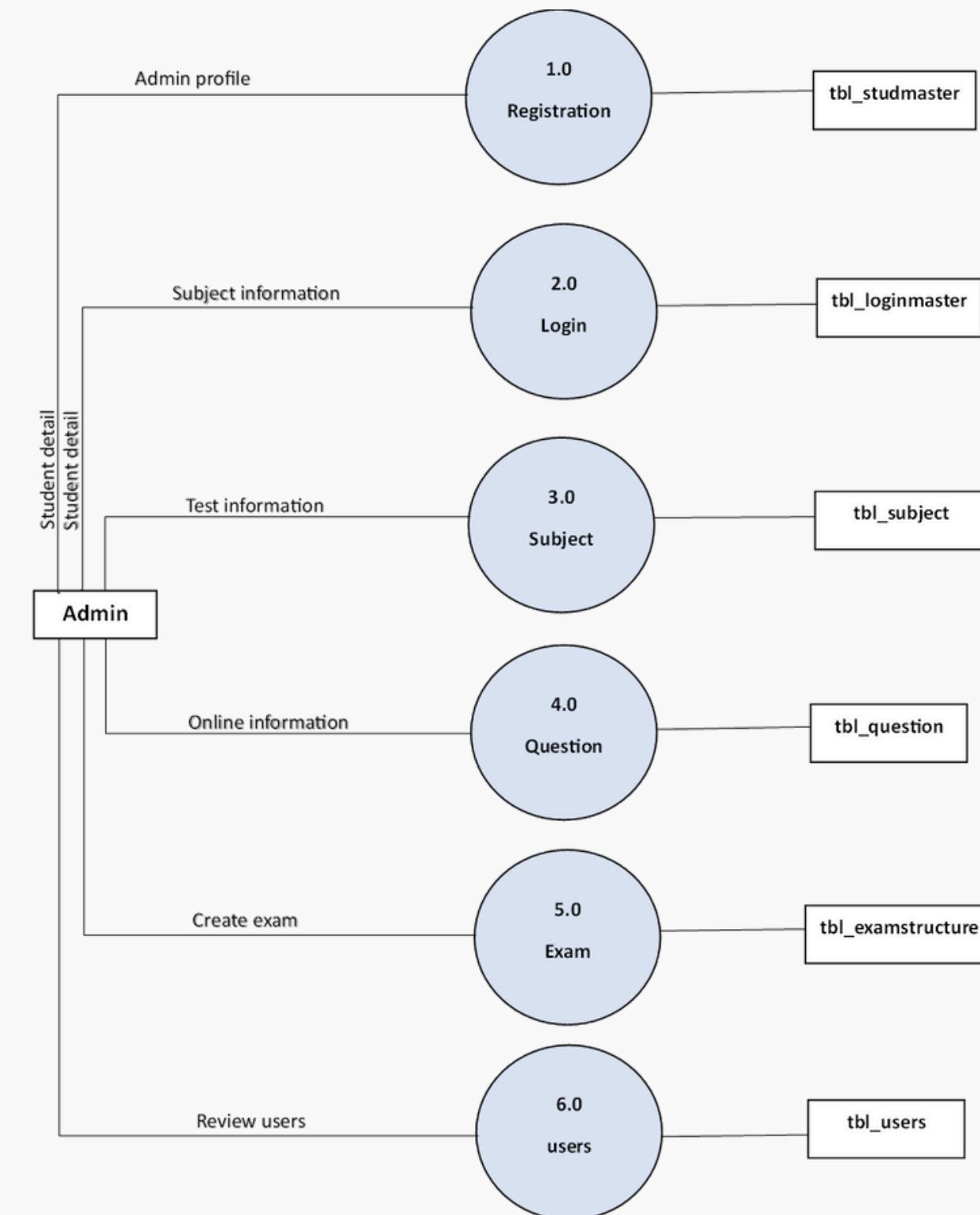
- Submit complaint details through the frontend, which are sent to the backend API. The backend stores the complaint in the MySQL database.



# DATA FLOW DIAGRAM :

## DFD LEVEL 1-ADMIN:

- Manages users and oversees complaints. Data flows through the backend to update the database.



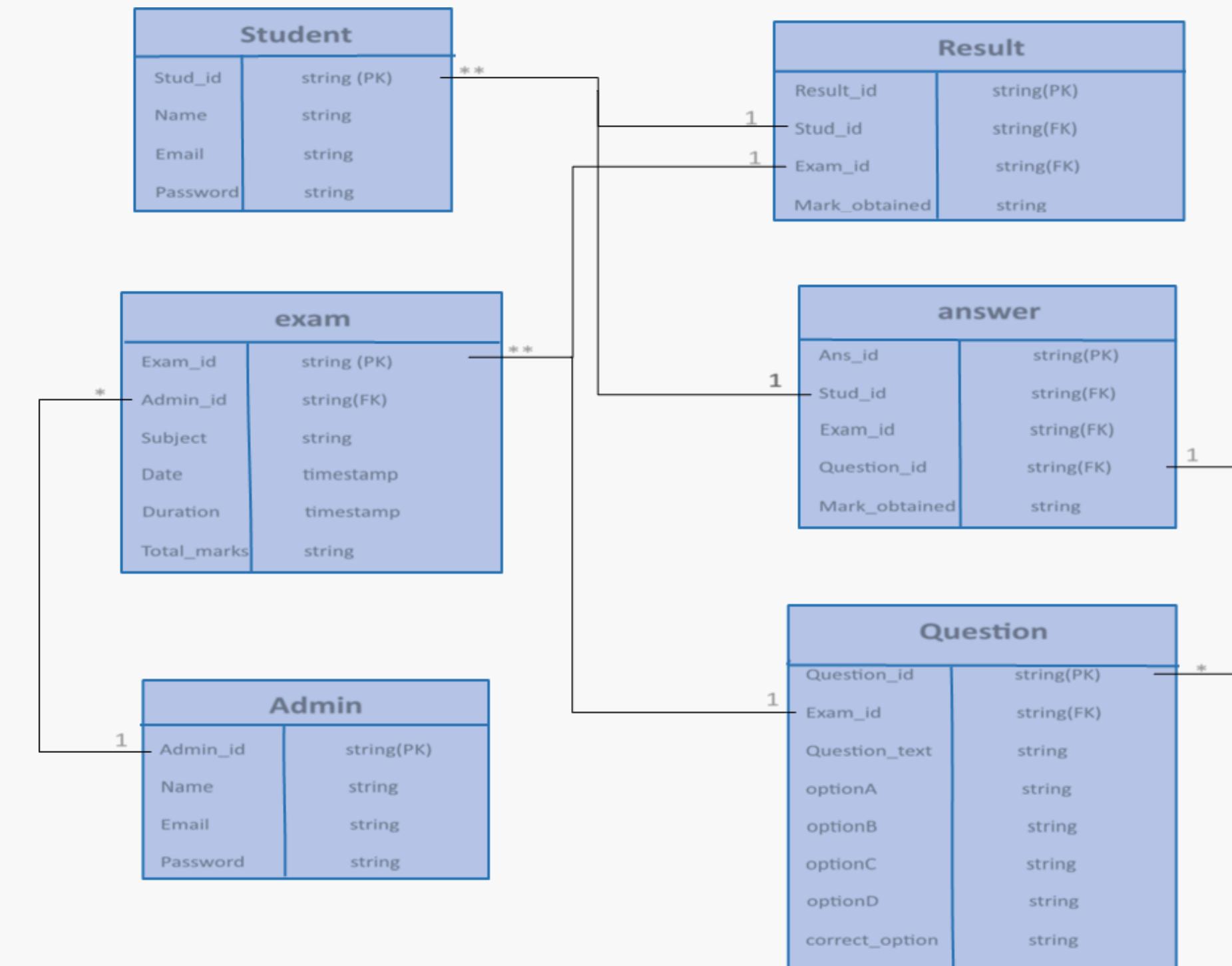
# ENTITY RELATIONSHIP(ER) :

## ENTITIES:

- Admin,student,exam,question, answer,result

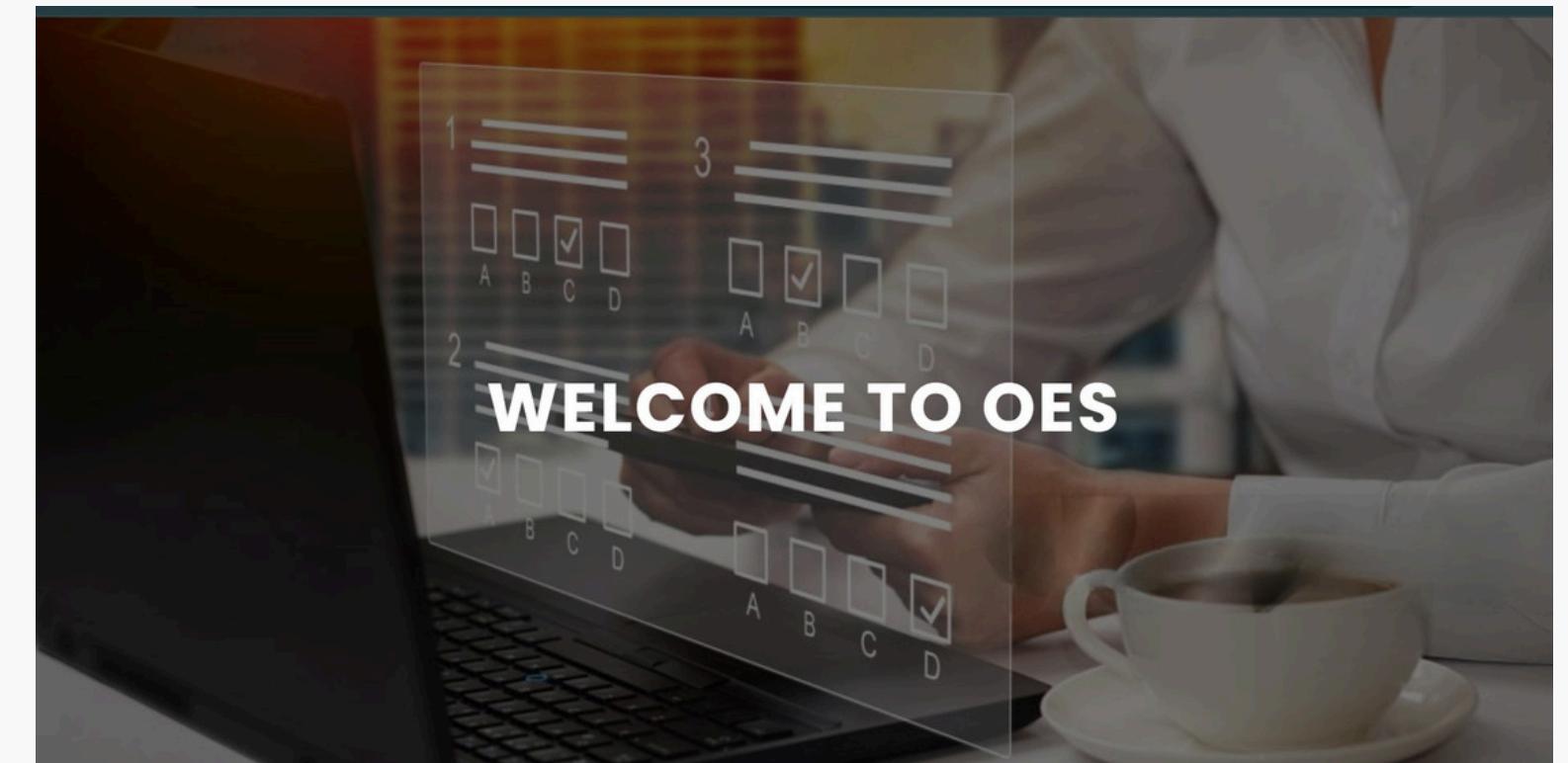
## RELATIONSHIPS:

- Student→ Answer(one to many)
- student→Result(one to many)
- Exam→Question(one to many)
- Admin→Exam(one to many)
- Question→Answer(one to many)



# SYSTEM DESIGN

**About OES  
(online examination system):**



## About OES (Online Examination System)

Our Online Examination System is designed to simplify the process of conducting exams. It provides a user-friendly interface for both administrators and students. With features like automated grading, real-time results, and secure exam environments, our system ensures a seamless experience for educational institutions and organizations.



Today Online Examination System in PHP has become a fast-growing examination method because of its speed and accuracy. It is also needed less manpower to execute the examination. Almost all organizations now-a-days are conducting their objective exams by online examination system, it saves students time in examinations. Organizations can also easily check the performance of the student that they give in an examination. As a result of this, organizations are releasing results in less time. It also helps the environment by saving paper. According to today's requirement, online examination project in PHP is very useful to learn it.



# SYSTEM DESIGN

## What is an Online Examination System?

In an online examination system, examinees get their user ID and password with their admit card. This ID is already saved in the examination server. When an examinee logs in to the server, they get their profile already registered. At a certain time, the examinee gets the message to start the examination. All answers given by the examinee are saved into the server with their profile information. The online examination system also allows correcting the answer if the examinee needs to change any answer during the examination time duration. However, after the time duration, any change will not be allowed. This also makes checking the answers easy and error-proof, as computers are more accurate than humans and provide fast results too. PHP is a web-based language, so we can create an online examination system in PHP.

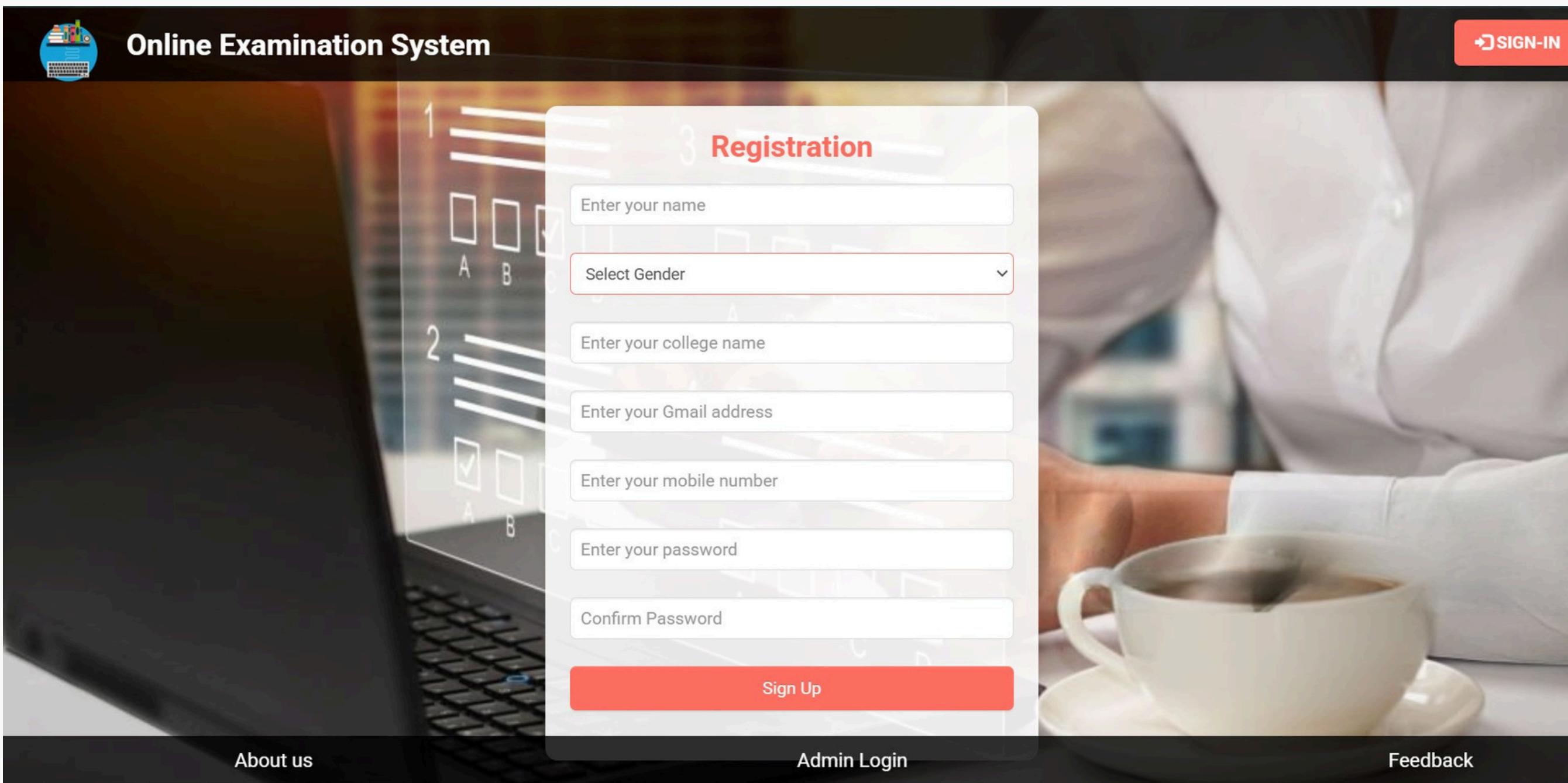
### Purpose:

The purpose of an online examination system is to digitally administer and manage exams, allowing for automated grading, faster results, reduced manual work, and convenient remote access to assessments. Essentially, it streamlines the entire examination process while minimizing human error and saving time for both students and administrators.



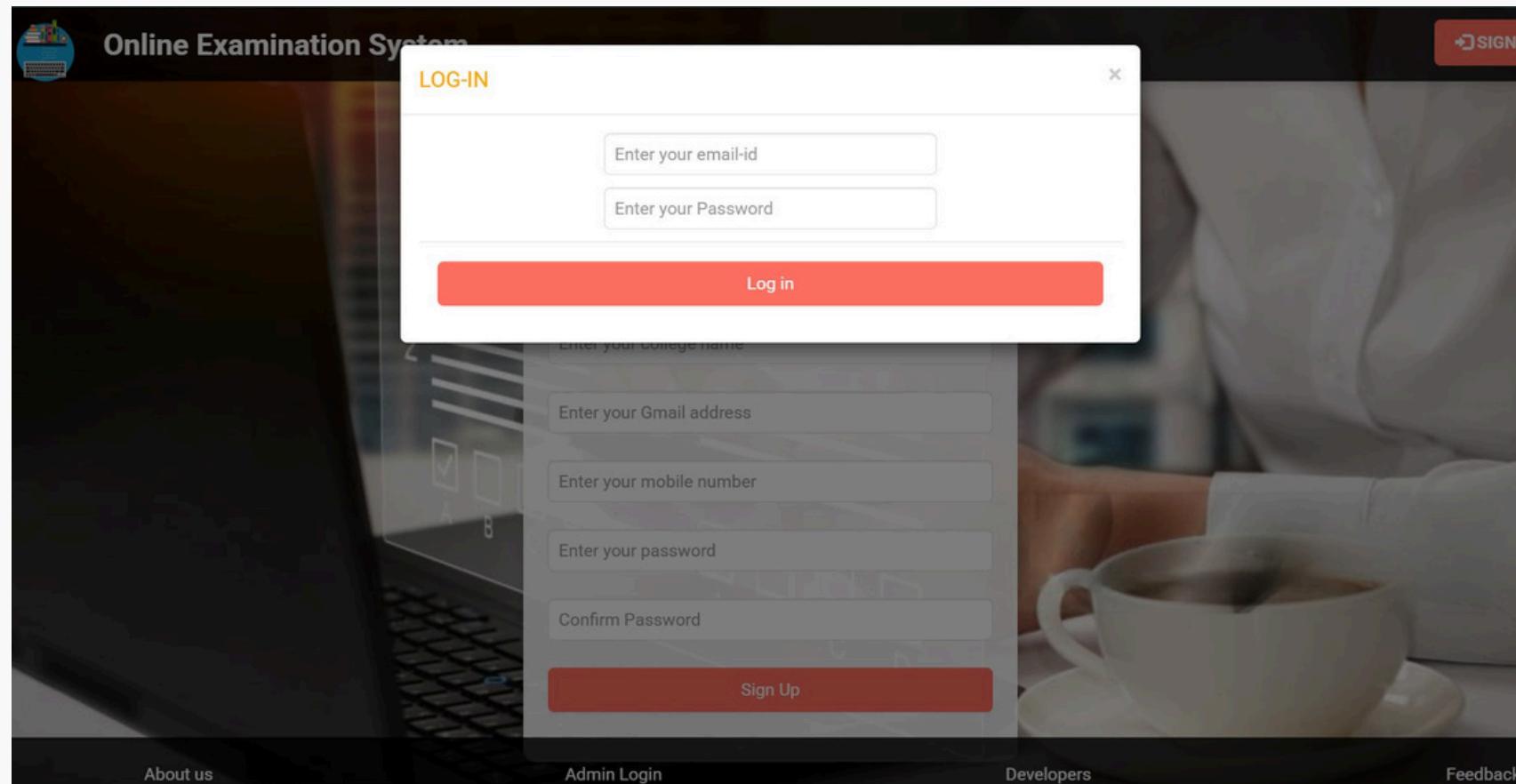
# SYSTEM DESIGN

## Registration Page:



# SYSTEM DESIGN

## Users (student):



The screenshot shows the dashboard of the "Online Test Your Skill" platform. At the top, there's a header with the logo, the title "Online Test Your Skill", a user greeting "Hello, Chavda Mehul", and a "Signout" button. Below the header, there are tabs for "Dashboard", "Home" (which is active), "History", "Ranking", and "Signout". The main area displays a table of test topics with columns for #, Topic, Total Questions, Marks, Time Limit, and Action (with a "Start" button). The topics listed are:

#	Topic	Total Questions	Marks	Time Limit	Action
1	Java	2	2	2 min	<button>Start</button>
2	Php	5	5	1 min	<button>Start</button>
3	Linux :vi Editor	5	10	10 min	<button>Start</button>
4	Networking	2	4	5 min	<button>Start</button>
5	Php Coding	2	4	5 min	<button>Start</button>
6	Linux : File Management	2	4	5 min	<button>Start</button>



# SYSTEM DESIGN

The screenshot shows a web-based quiz application. At the top, a navigation bar includes a logo, the title "Online Test Your Skill", and user information ("Hello, Chavda Mehul"). Below the bar are links for "Dashboard", "Home", "History", "Ranking", and "Signout". A message "Time left: 14 seconds" is displayed above the question area. The question is "Question 1 :: PHP stands for -". Four options are listed with radio buttons: "Hypertext Preprocessor", "Pretext Hypertext Preprocessor", "Personal Home Processor", and "None of the above". A red "Submit" button is at the bottom.

The screenshot shows the results page of the quiz. At the top, it displays "Online Test Your Skill" and the user's name "Chavda Mehul". Below the header is a navigation bar with links for "Dashboard", "Home", "History", "Ranking", and "Signout". The main content area is titled "Result" and contains a table summarizing the quiz performance:

Total Questions	5
right Answer	1
Wrong Answer	4
Score	-3
Overall Score	3



# SYSTEM DESIGN

## History:

The screenshot shows a user interface for an online test platform. At the top, there's a navigation bar with icons for user profile, hello message, and signout. Below it is a secondary navigation bar with links for Dashboard, Home, History (which is highlighted in red), Ranking, and Signout. The main content area displays a table titled 'Quiz' with columns for S.N., Quiz, Question Solved, Right, Wrong, and Score. The data in the table is as follows:

S.N.	Quiz	Question Solved	Right	Wrong	Score
1	Java	2	0	2	0
2	Php Coding	2	2	0	4
3	Networking	2	1	1	1
4	Php	5	1	4	-3

## User Ranking:

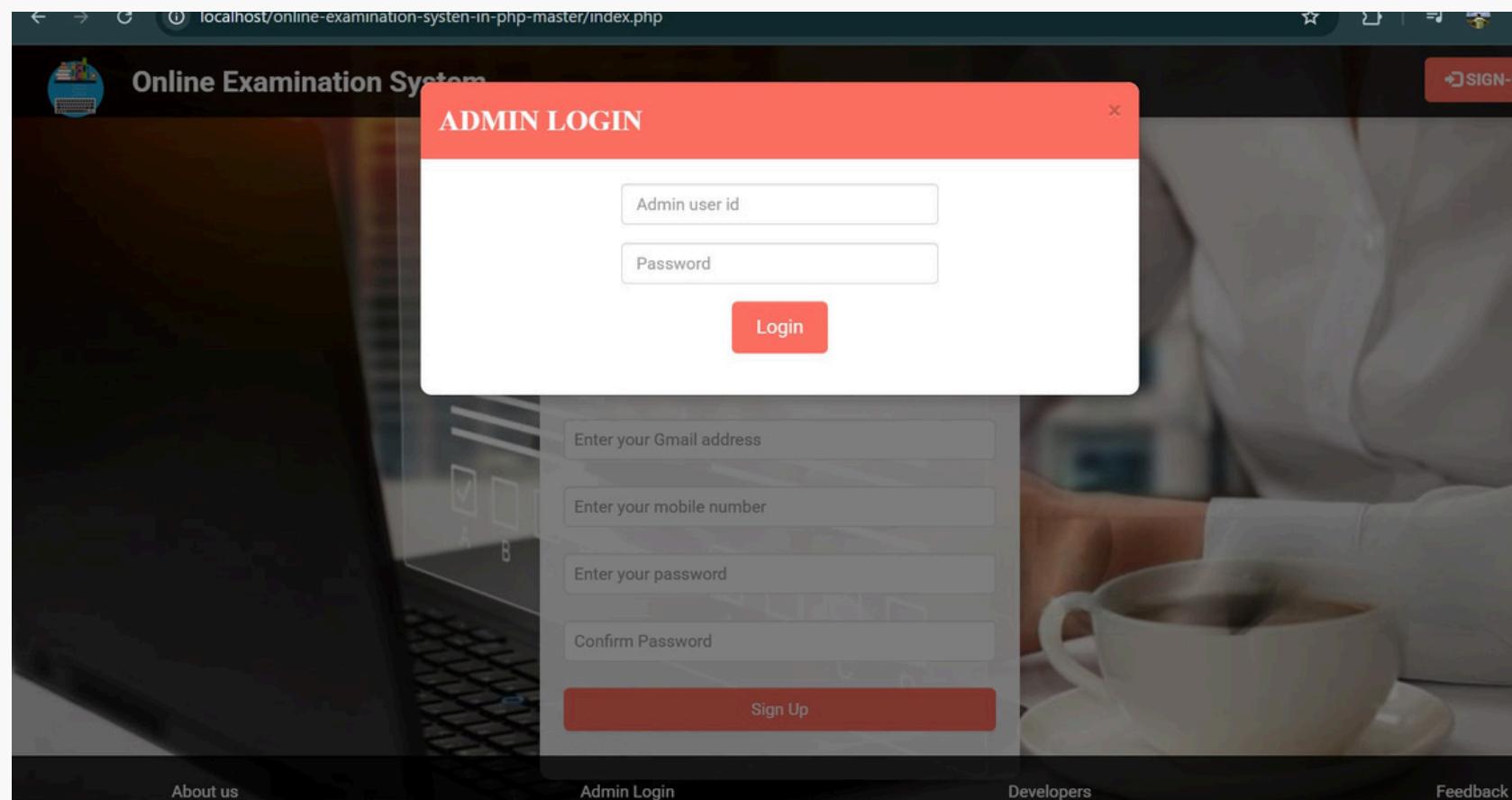
The screenshot shows a user interface for an online test platform. At the top, there's a navigation bar with icons for user profile, hello message, and signout. Below it is a secondary navigation bar with links for Dashboard, Home, History, Ranking (which is highlighted in red), and Signout. The main content area displays a table with columns for Rank, Name, Gender, College, and Score. The data in the table is as follows:

Rank	Name	Gender	College	Score
1	Sunny	M	KNIT sultanpur	9
2	Nand	M	Sutex Bank clg	9
3	Chavda Mehul	M	Sutex Bank clg	8
4	Tom Cruze	M	Hollywood	4
5	Yasraj	M	j.z.shah	4
6	Yasraj	M	j.z.shah	-5



# SYSTEM DESIGN

## Admin login:



The screenshot shows the 'Home' page of the 'ONLINE EXAMINATION SYSTEM'. The top navigation bar includes 'Dashboard', 'Home' (which is highlighted in green), 'User', 'Ranking', 'Feedback', 'Quiz', and 'Signout'. Below the navigation, there is a table listing six quiz topics with their details and a 'Start' button for each. The table columns are: S.N., Topic, Total question, Marks, Time limit, and Start button. The data is as follows:

S.N.	Topic	Total question	Marks	Time limit	Action
1	Java	2	2	2 min	
2	Php	5	5	1 min	
3	Linux :vi Editor	5	10	10 min	
4	Networking	2	4	5 min	
5	Php Coding	2	4	5 min	
6	Linux : File Management	2	4	5 min	



# SYSTEM DESIGN

ONLINE EXAMINATION SYSTEM

This screenshot shows the 'User' section of the online examination system. At the top, there's a navigation bar with links for Dashboard, Home, User (which is highlighted in green), Ranking, Feedback, Quiz, and Signout. Below the navigation is a table listing users with columns for S.N., Name, Gender, College, Email, Mobile, Quizzes Taken, Scores, and Action. The table contains 7 rows of data.

S.N.	Name	Gender	College	Email	Mobile	Quizzes Taken	Scores	Action
1	Chavda Mehul	M	Sutex Bank clg	mehulchavda1275@gmail.com	9090909090	Php Networking Php Coding Java	-3 1 4 0	
2	Tom Cruze	M	Hollywood	mi5@hollywood.com	7785068889	No quizzes taken	N/A	
3	Nand	M	Sutex Bank clg	nandpatel12@demo.com	1231231234	No quizzes taken	N/A	
4	Rahi	F	Sutex Bank clg	rahi1@gmail.com	1212121212	No quizzes taken	N/A	
5	Sunny	M	KNIT sultanpur	sunnygkp10@gmail.com	7785068889	Php Coding Linux : File Management Linux :vi Editor	4 4 4	
6	Vikash	M	KNIT sultanpur@gmail.com	vikash@gmail.com	7785068889	No quizzes taken	N/A	
7	Yasraj	M	j.z.shah	yasraj@gmail.com	1234567890	Php	-1	

ONLINE EXAMINATION SYSTEM

This screenshot shows the 'Ranking' section of the online examination system. At the top, there's a navigation bar with links for Dashboard, Home, User, Ranking (which is highlighted in green), Feedback, Quiz, and Signout. Below the navigation is a table listing users with columns for Rank, Name, Gender, College, and Score. The table contains 6 rows of data.

Rank	Name	Gender	College	Score
1	Sunny	M	KNIT sultanpur	9
2	Nand	M	Sutex Bank clg	9
3	Chavda Mehul	M	Sutex Bank clg	8
4	Tom Cruze	M	Hollywood	4
5	Yasraj	M	j.z.shah	4
6	Yasraj	M	j.z.shah	-5



# SYSTEM DESIGN

## Feedback:

ONLINE EXAMINATION SYSTEM

Dashboard Home User Ranking Feedback Quiz Signout

S.N.	Subject	Email	Date	Time	By
1	quiz	keyurmodiya12@gmail.com	22-02-2025	03:19:40pm	keyur
2	test	mehulchavda1275@gmail.com	09-02-2025	01:16:15pm	nick
3	feedback	sunnygkp10@gmail.com	20-06-2015	05:28:16am	netcamp
4	kcsncsk	sunnygkp10@gmail.com	20-06-2015	01:37:52pm	sunny

**quiz**

- DATE: 22-02-2025 Time: 03:19:40pm By: keyur

the quiz is very good and timer is a best thing and also important

## Remove Quiz:

ONLINE EXAMINATION SYSTEM

Dashboard Home User Ranking Feedback Quiz Signout

S.N.	Topic	Total question	Marks	Time limit
1	Java	2	2	2 min
2	Php	5	5	1 min
3	Linux :vi Editor	5	10	10 min
4	Networking	2	4	5 min
5	Php Coding	2	4	5 min
6	Linux : File Management	2	4	5 min



# *SYSTEM DESIGN*

## Quiz Details:

ONLINE EXAMINATION SYSTEM

Dashboard   Home   User   Ranking   Feedback   Quiz   Signout

### Enter Quiz Details

Enter Quiz title

Enter total number of questions

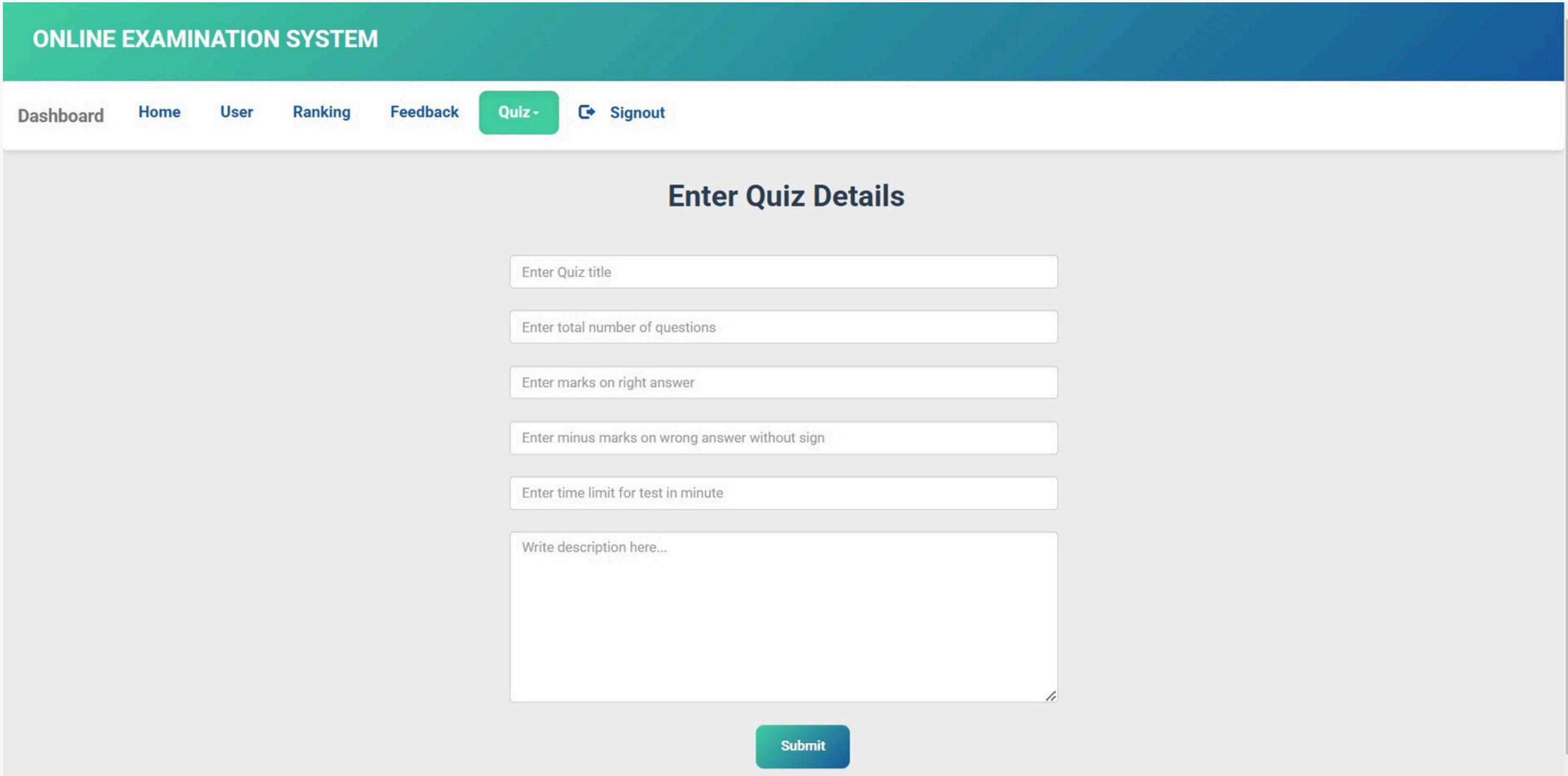
Enter marks on right answer

Enter minus marks on wrong answer without sign

Enter time limit for test in minute

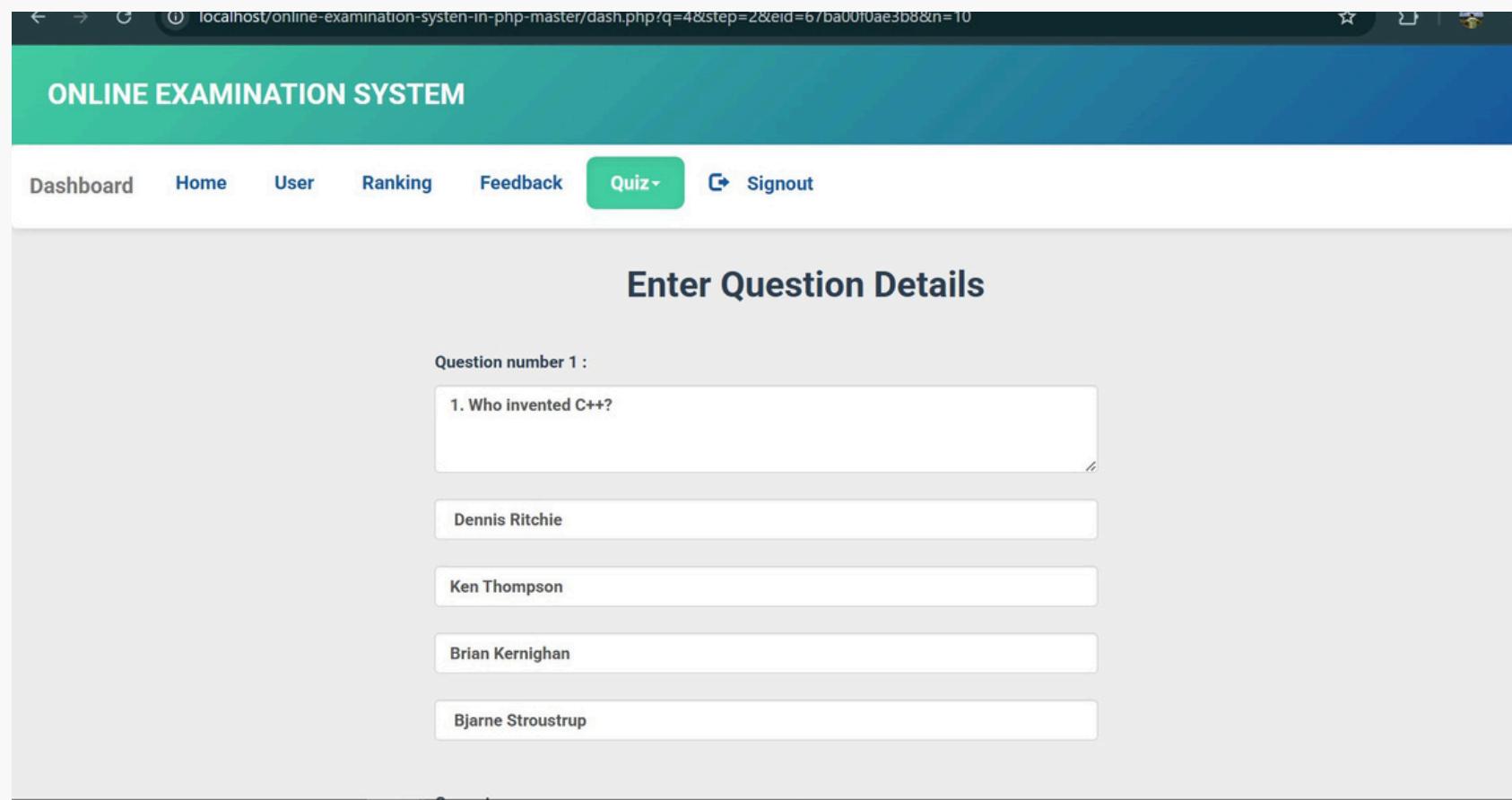
Write description here...

Submit



# SYSTEM DESIGN

## Quiz Details:



ONLINE EXAMINATION SYSTEM

Dashboard Home User Ranking Feedback Quiz Signout

### Enter Question Details

Question number 1 :

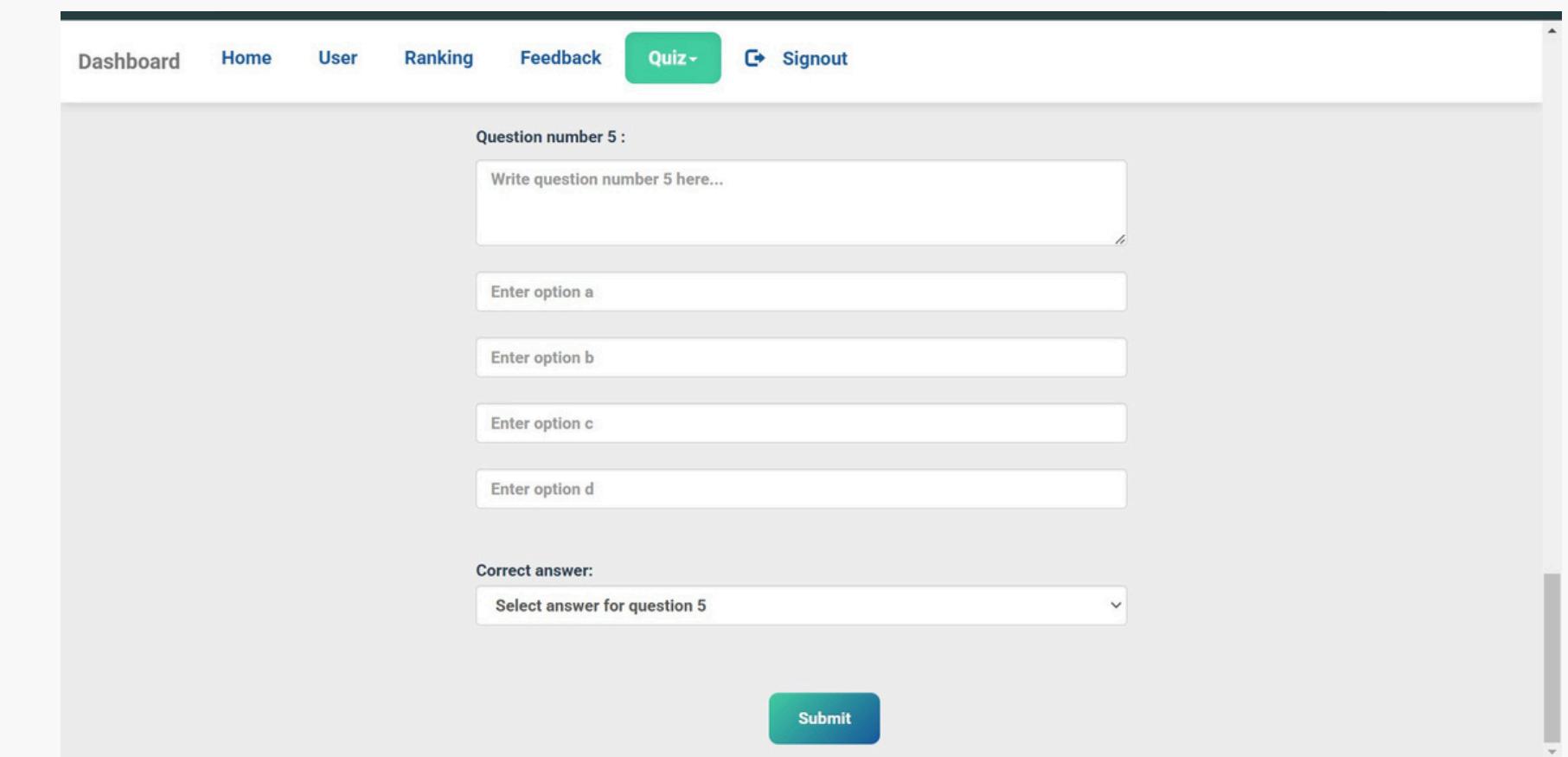
1. Who invented C++?

Dennis Ritchie

Ken Thompson

Brian Kernighan

Bjarne Stroustrup



Dashboard Home User Ranking Feedback Quiz Signout

Question number 5 :

Write question number 5 here...

Enter option a

Enter option b

Enter option c

Enter option d

Correct answer:

Select answer for question 5

Submit



# SYSTEM DESIGN

## Feedback Form:

The screenshot shows a web browser window displaying a feedback form titled "FEEDBACK/REPORT A PROBLEM". The form is part of an "Online Examination System" as indicated by the logo and text on the top bar. The top bar also includes links for "Home" and "SIGN-IN". The background of the page features a blurred image of a person in a white shirt holding a cup of coffee. The feedback form contains four input fields: "Name", "Subject", "E-Mail Address", and "Feedback", each with a placeholder text. A red "Submit" button is at the bottom of the form. The browser's address bar shows the URL "localhost/online-examination-system-in-php-master/feedback.php".

FEEDBACK/REPORT A PROBLEM

Name:  
Enter your name

Subject:  
Enter subject

E-Mail Address:  
Enter your email-id

Feedback:  
Write feedback here...

Submit





*Thank you*

