



# **ONLINE QUIZ EXAMINATION SYSTEM**

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# INTRODUCTION

## **Objective:**

The aim is to develop a secure and efficient Online Quiz Examination System that allows students to participate in quizzes, submit answers, provide feedback, and receive results seamlessly. The system provides administrators with tools to manage various aspects of the quiz process, such as course creation, exam scheduling, question management, result viewing, and feedback management. Students can provide feedback on the exam process, helping administrators improve the quality and user experience of future quizzes.

## **Main Goal:**

The goal of this project is to simplify the quiz-taking process by offering an easy-to-use web-based platform that guarantees accuracy, transparency, and security in conducting online exams. The platform also provides real-time score tracking and result generation, enhancing efficiency for both students and administrators.

# PROBLEM DEFINITION

In educational institutions, it's important to conduct exams smoothly and accurately to assess students' academic performance. Traditional exams often involve many manual tasks that take a lot of time and can lead to mistakes. With the growth of digital solutions, there is a need for an online exam system that automates and simplifies the entire process. This project aims to create an Online Quiz Examination System using PHP and MySQL. It will provide students with an easy-to-use platform for taking exams, and it will include a timer to make sure students follow the exam time limits.

Develop an **Online Examination System with Timer** that allows students to take exams within a specified time frame. The system should be divided into two major modules: the **Admin Panel** and the **Student Interface**. The platform should enable administrators to manage courses, exams, questions, and examinees, while students should be able to take exams, view results, and provide feedback

# Admin Panel:

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Manage courses and categorize exams under different courses.

- Create and update exams, including specifying start and end times.
- Manage exam questionnaires, adding or modifying multiple-choice questions.
- View and analyze results of the exams.
- Manage examinees' data and track their progress.
- View feedback provided by the students

## Student Interface:

- Allow students to register and log in to the platform.
- Provide a list of available exams based on courses.
- Start the exam with a countdown timer indicating the time remaining.
- Navigate through the exam questions and submit answers.
- View results upon exam completion.
- Submit feedback to the admin.

## Main Modules of the Online Examination System

### 1. Dashboard:

1. **Admin:** The admin can view an overview of the system, including total courses, exams, and students. Admin can also see recent exam results and feedback.
1. **Student:** The student sees upcoming exams, past exam results, and any notifications.

### 2. Course Management:

1. **Admin:** Admin can create new courses and manage existing ones, including updating or deleting them.

### 3. Exam Management:

1. **Admin:** Admin can schedule, edit, or delete exams for different courses.
2. **Student:** Students can view their assigned exams and take them within the scheduled time frame.

### 4. Question Management:

1. **Admin:** Admin can add, update, or delete questions for any exam in the system.

### 5. Student/Examinee Management:

1. **Admin:** Admin can manage student accounts, adding new students or removing them from the system.

### 6. Results Management:

1. **Admin:** Admin can view and analyze exam results for each student.
2. **Student:** Students can view their own exam results and overall performance.

### 7. Feedback Management:

1. **Admin:** Admin can view feedback provided by students regarding exams and the examination process.
2. **Student:** Students can submit feedback on the exam experience after completing their exams.

### 8. Authentication:

1. **Admin and Student:** Both admin and students can log in and log out of the system securely, with options to change or recover passwords if needed.

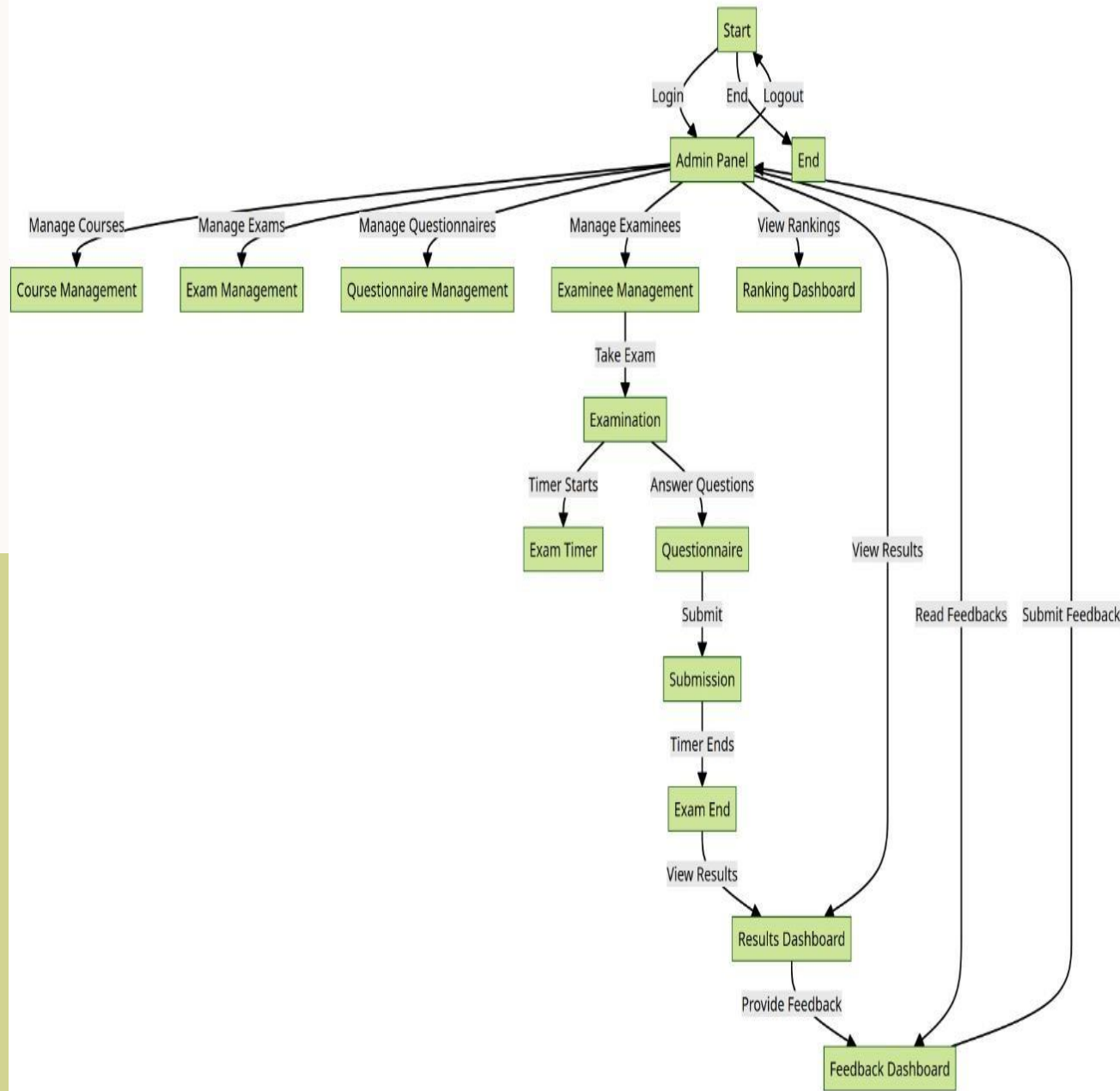
# SYSTEM REQUIREMENT SPECIFICATION

## Software Requirements:

- **Operating System:** Windows 11 or higher
- **Web Server:** XAMPP
- **Backend Language:** PHP
- **Database:** MySQL
- **Frontend Languages:** HTML, CSS, JavaScript
- **Browser Compatibility:** Google Chrome
- **IDE/Editor:** Visual Studio Code
- **PHP Version:** PHP 7.4 or higher
- **Database Management Tool:** phpMyAdmin

## Hardware Requirements:

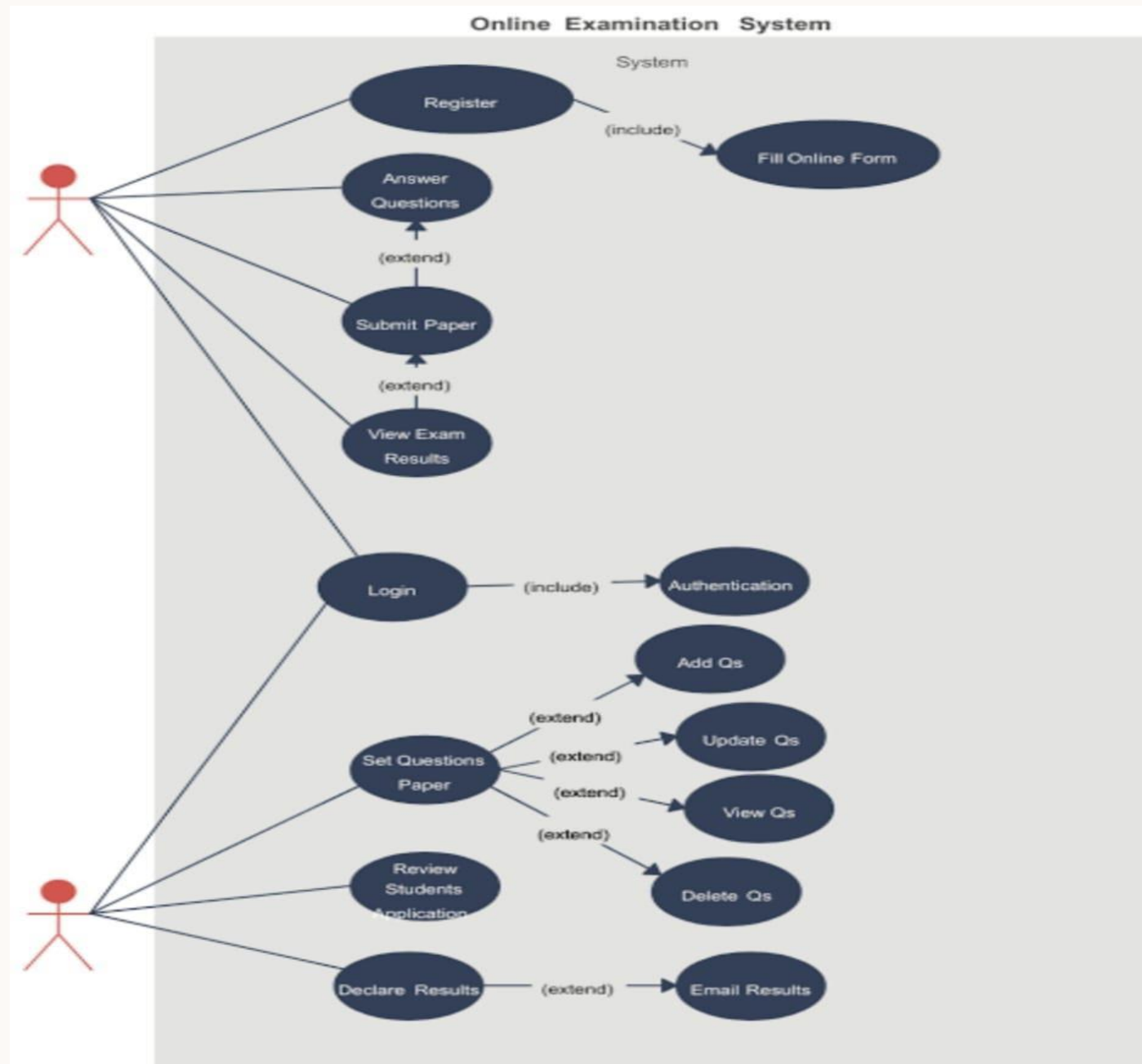
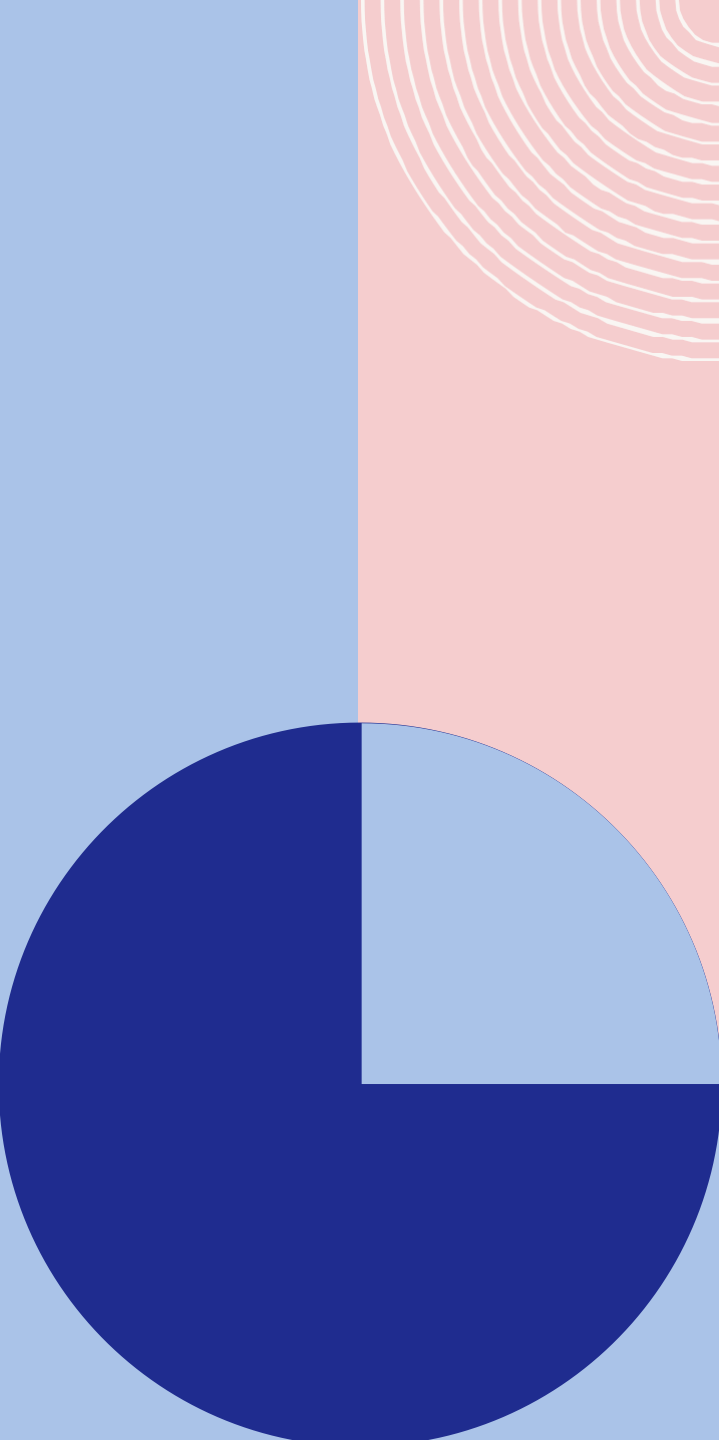
- **Personal Computer:** Desktop or Laptop with a keyboard and mouse, maintained with an uninterrupted power supply (UPS).
- **Processor:** Intel® Core™ i5 or equivalent (for optimal performance).
- **Installed Memory (RAM):** Minimum 1.00 GB.
- **Hard Disk Space:** At least 40 GB of free space.



## USE CASE DIAGRAMS

Use case diagram consists of use cases and actors and shows the interaction between them the key points are : the main purpose to show the interaction between use case and actors To represent the system requirement from users perspective. The use cases are the functions that are to be performed in the module An actor can be the end user of the system or an external

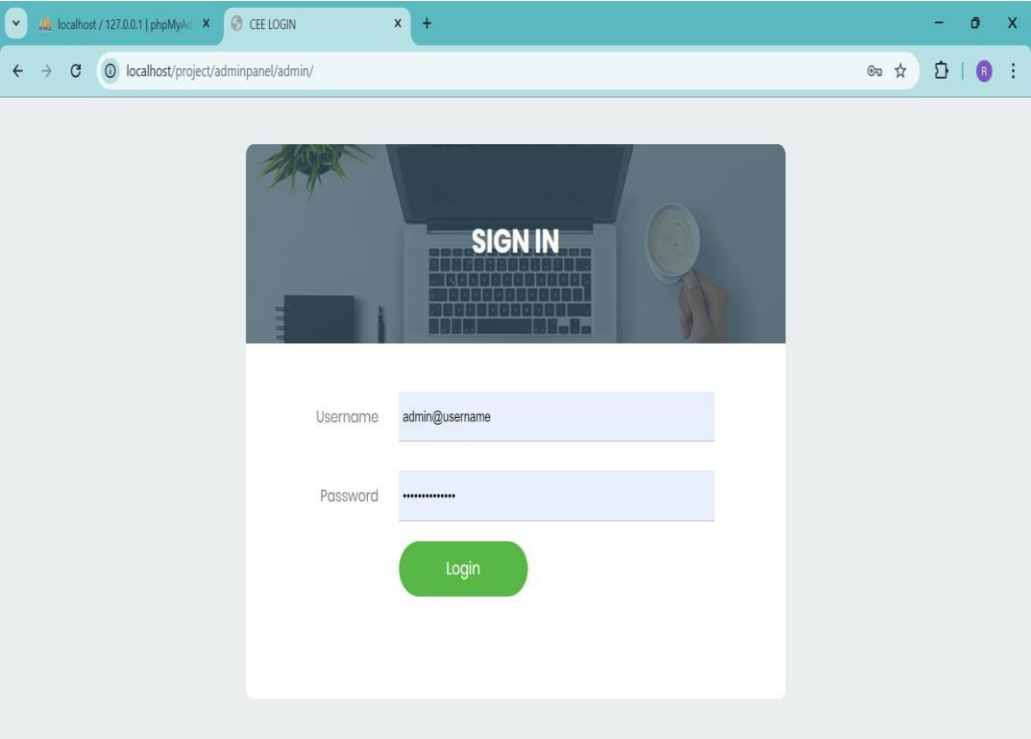
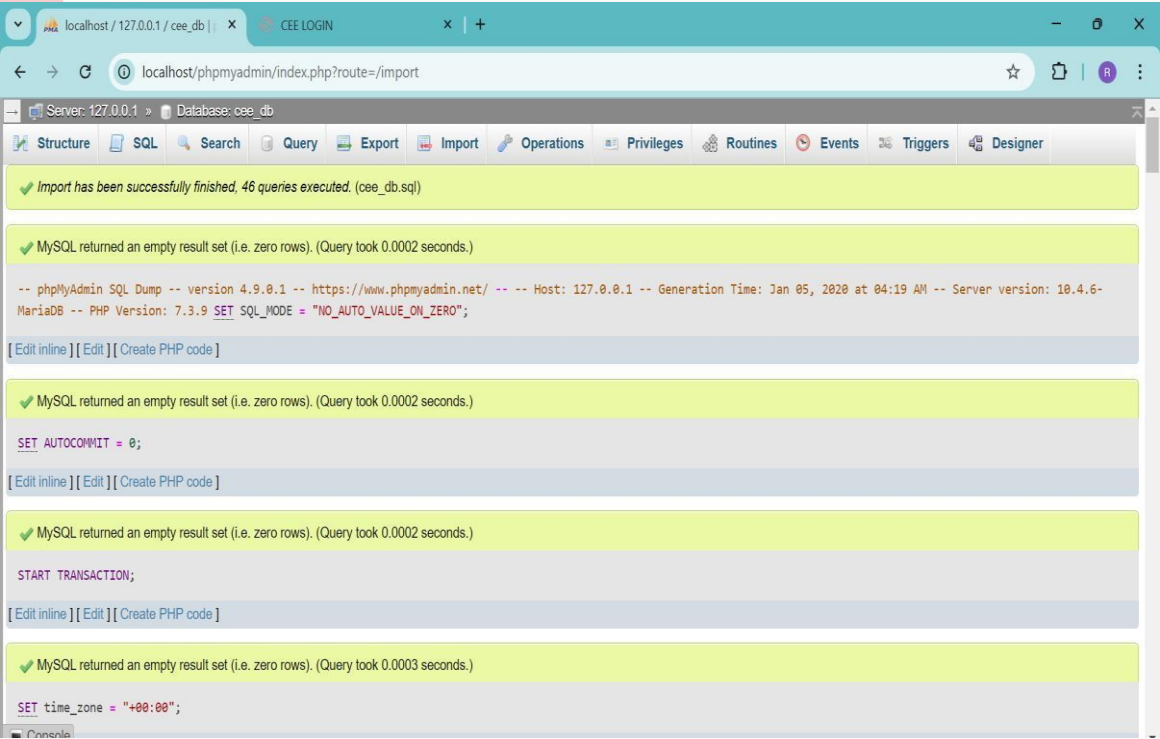




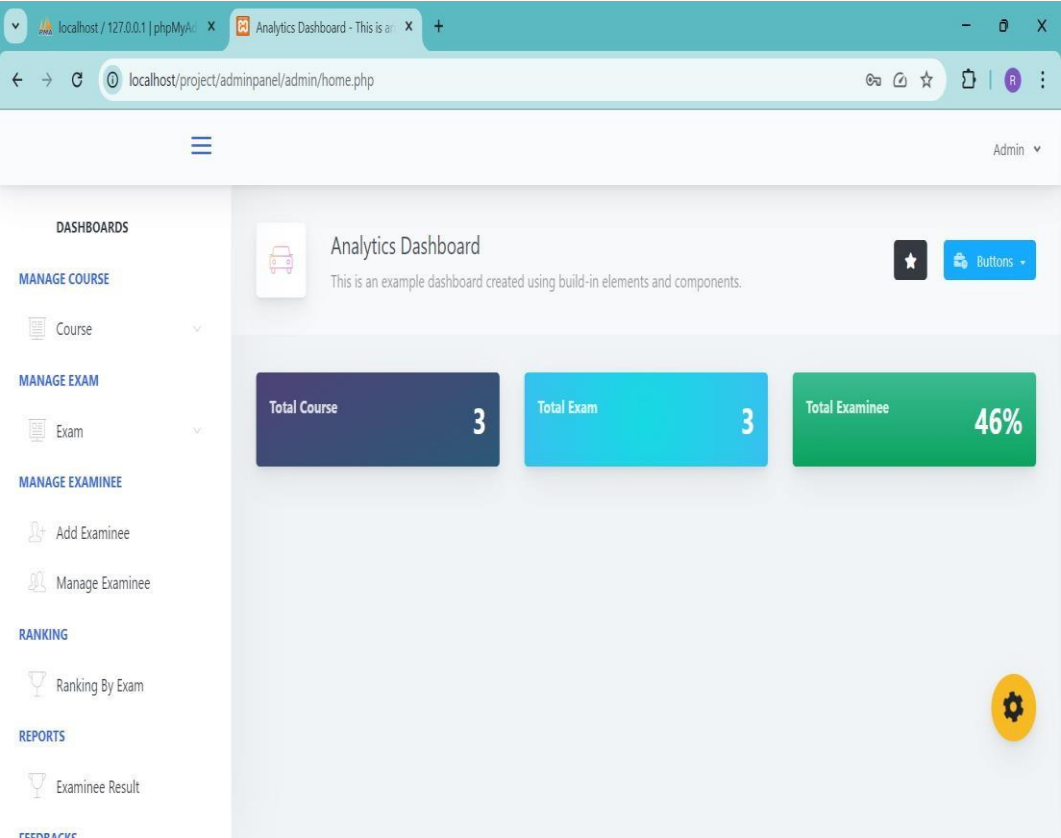
# DATABASE INSERTED SUCCESSFULLY

10

## ADMIN SIDE: LOGIN PAGE FOR ADMIN

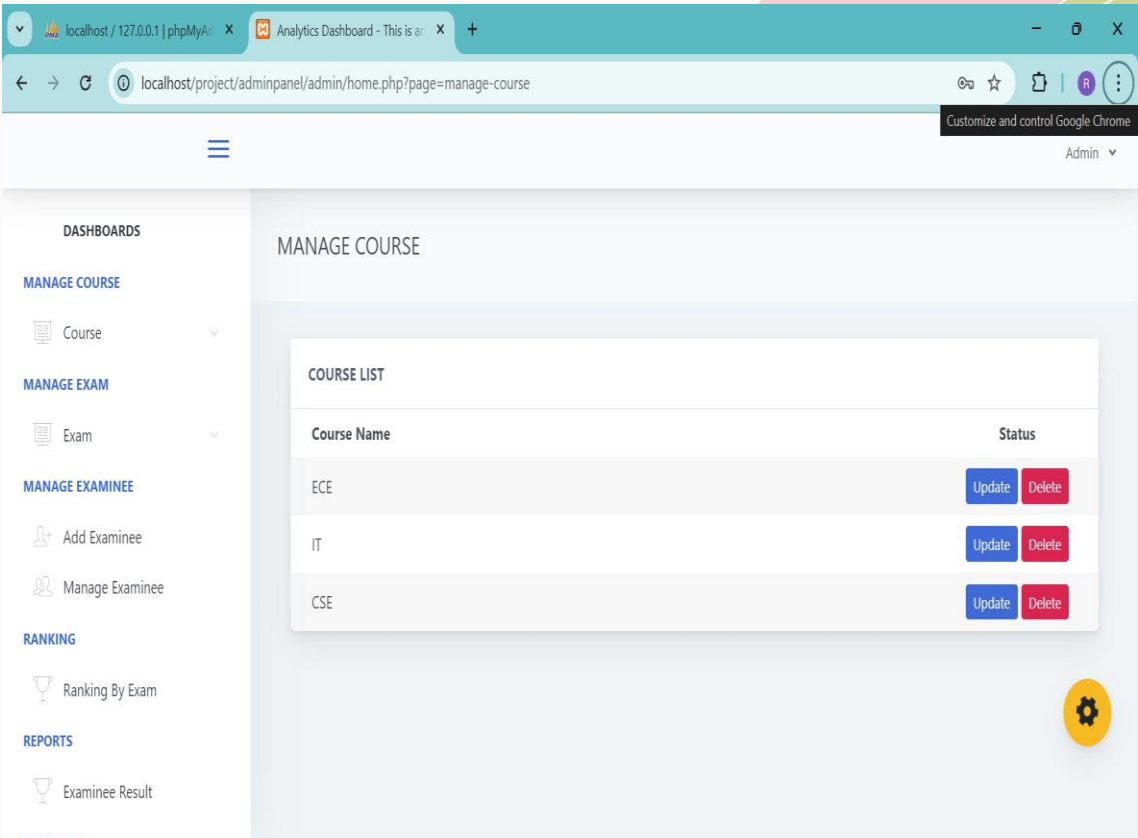


# HOME PAGE FOR ADMIN

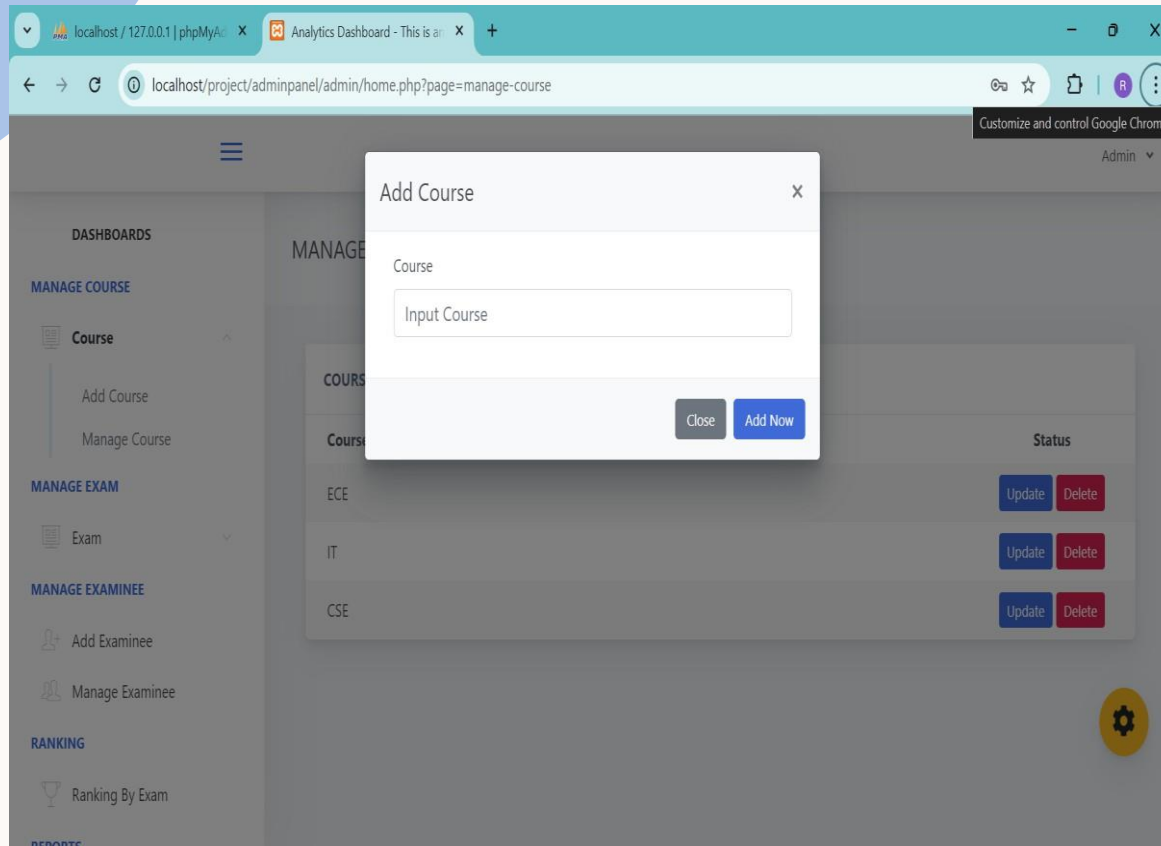


# MANAGE COURSE: LIST OF DEAFULT COURSES

11

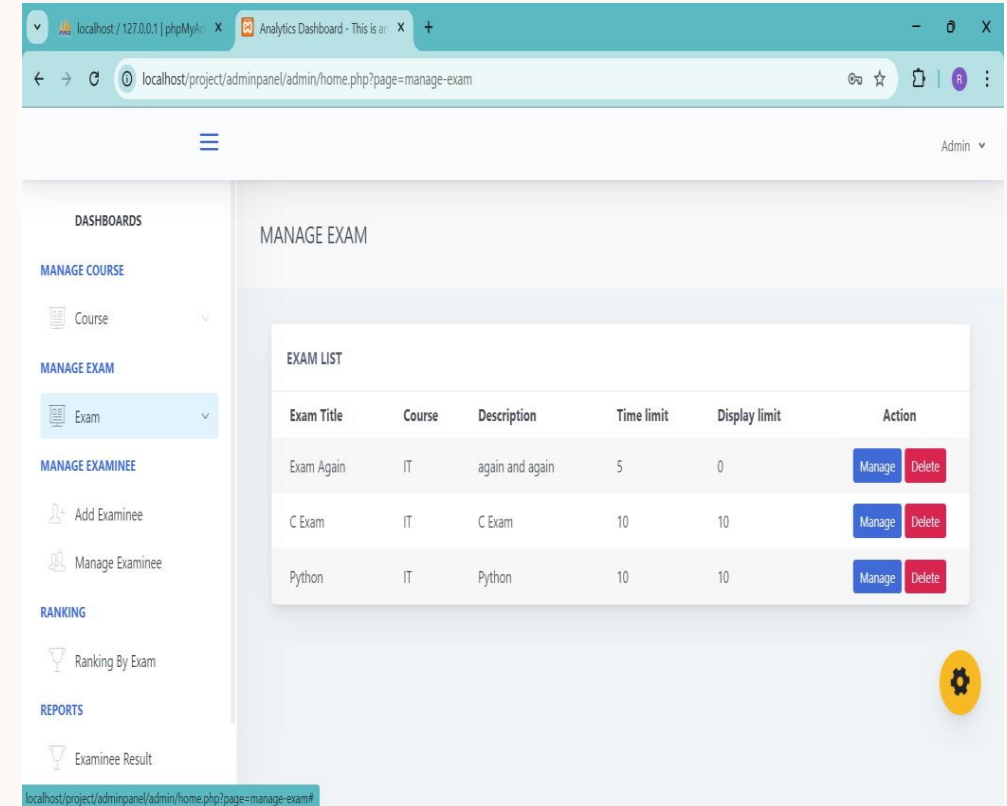


## FOR ADDING THE ADDITIONAL COUSES



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## MANAGE EXAM



# ADDING THE EXAM

DASHBOARDS

MANAGE COURSE

MANAGE EXAM

MANAGE EXAMINEE

RANKING

REPORTS

Course

Exam

Add Exam

Manage Exam

Add Examinee

Manage Examinee

Ranking By Exam

Add Exam

Select Course

Exam Time Limit

Question Limit to Display

Exam Title

Exam Description

Display limit

Action

0

10

10

Manage

Delete

Manage

Delete

Manage

Delete

# MANAGE EXAMINEE(STUDENTS)

DASHBOARDS

MANAGE COURSE

MANAGE EXAM

MANAGE EXAMINEE

RANKING

REPORTS

Course

Exam

Add Examinee

Manage Examinee

Ranking By Exam

Examinee Result

MANAGE EXAMINEE

EXAMINEE LIST

Fullname	Gender	Birthdate	Course	Year level	Email	Password	status	
Shaik Rahamtullah	male	2018-11-25	IT	third year	rahamtullah@gmail.com	rahamtullah	active	<div>Update</div>
Rajavarapu pravallika	female	2004-10-11	IT	third year	pravallika@gmail.com	pravallika	active	<div>Update</div>
Dhanishetty Sai keerthi	female	2004-10-27	CSE	second year	keerthi@gmail.com	keerthi	active	<div>Update</div>
Ragala Bhavya Sri	female	2005-09-13	IT	third year	ragalabhavya@gmail.com	bhavya	active	<div>Update</div>

# FOR ADDING STUDENTS

localhost / 127.0.0.1 | phpMyAdmin x Analytics Dashboard - This is an x +

localhost/project/adminpanel/admin/home.php?page=manage-examinee

DASHBOARDS

MANAGE COURSE

MANAGE EXAM

MANAGE EXAMINEE

RANKING

REPORTS

Fullname

Input Fullname

Birhdate

dd-mm-yyyy

Gender

Select gender

Course

Select course

Year Level

Select year level

Email

admin@username

Admin

	Password	status	
ah@gmail.com	rahamtullah	active	Update
@gmail.com	pravallika	active	Update
gmail.com	keerthi	active	Update
avya@gmail.com	bhavya	active	Update

# RANKING

14

localhost / 127.0.0.1 | phpMyAdmin x Analytics Dashboard - This is an x +

localhost/project/adminpanel/admin/home.php?page=ranking-exam

DASHBOARDS

MANAGE COURSE

MANAGE EXAM

MANAGE EXAMINEE

RANKING

REPORTS

Ranking By Exam

EXAM LIST

Exam Title	Course	Description	Action
Exam Again	IT	again and again	View
C Exam	IT	C Exam	View
Python	IT	Python	View

# REPORTS

DASHBOARDS

MANAGE COURSE

MANAGE EXAM

MANAGE EXAMINEE

RANKING

REPORTS

FEEDBACKS

Course

Exam

Add Examinee

Manage Examinee

Ranking By Exam

Examinee Result

Admin

EXAMINEE RESULT

Fullname	Exam Name	Scores	Ratings
Ragala Bhavya Sri	Python	10 / 10	100.00%
Ragala Bhavya Sri	Python	10 / 10	100.00%
Rajavarapu pravallika	C Exam	0 / 10	0.00%

# FEEDBACK

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Course

MANAGE EXAM

MANAGE EXAMINEE

RANKING

REPORTS

FEEDBACKS

Exam

Add Examinee

Manage Examinee

Ranking By Exam

Examinee Result

All Feedbacks

Admin

RANKING BY EXAM

FEEDBACK'S LIST

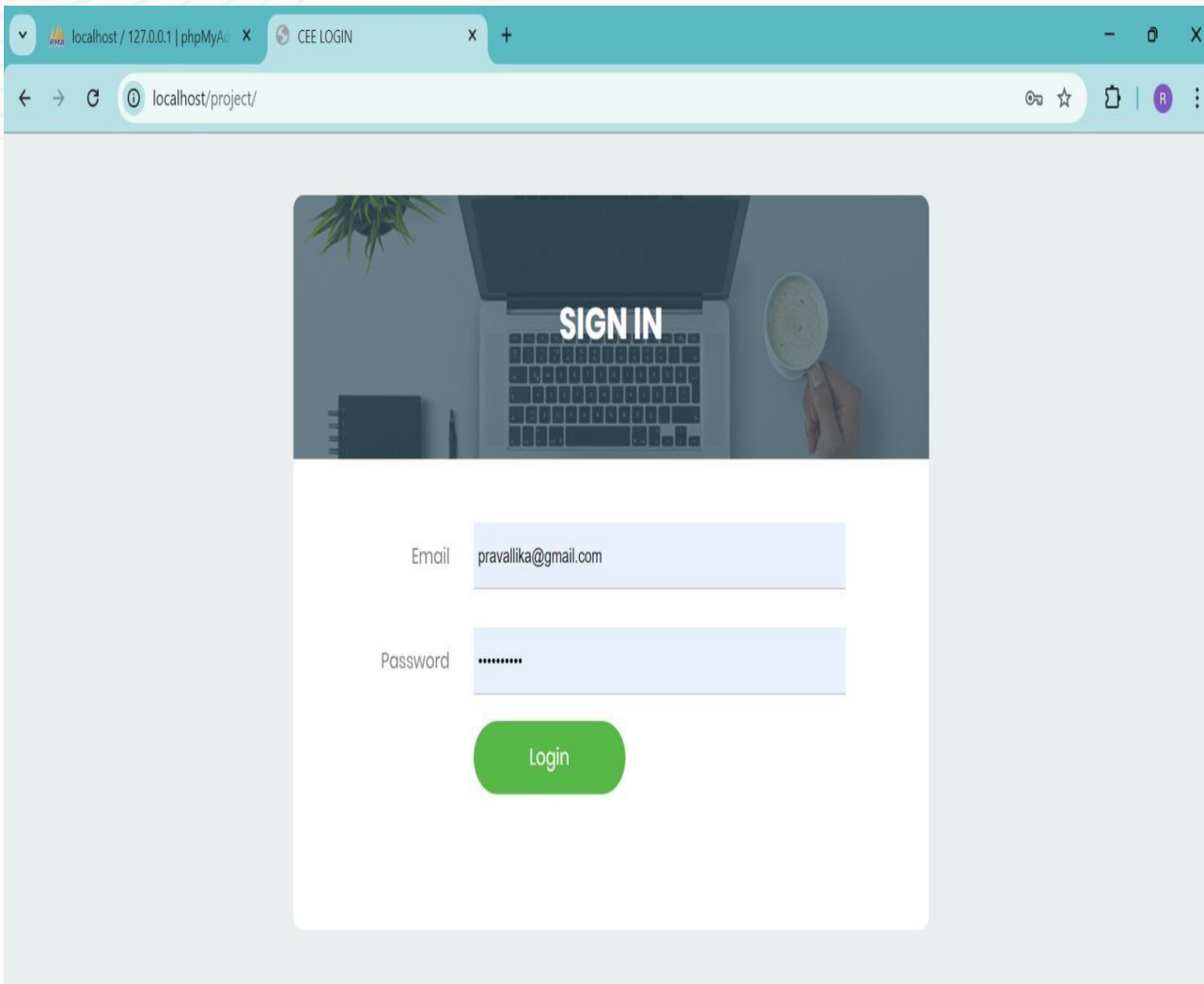
Examinee	Feedbacks	Date
student	The exam format was straightforward and easy to follow.	2020-01-05
student	The exam was quite challenging, but informative.	2020-01-05



## STUDENT SIDE: LOGIN FOR STUDENT PAGE

1G

## ATTEMPTING OF EXAMINATION



A screenshot of a web browser showing the 'CEE LOGIN' page. The browser's address bar displays 'localhost/project/'. The page features a header image with a laptop and a bowl of food, with the text 'SIGN IN' overlaid. Below the image, there are two input fields: 'Email' with the value 'pravallika@gmail.com' and 'Password' with masked characters '\*\*\*\*\*'. A green 'Login' button is positioned below the password field.

localhost / 127.0.0.1 | phpMyAdmin x CEE LOGIN x +

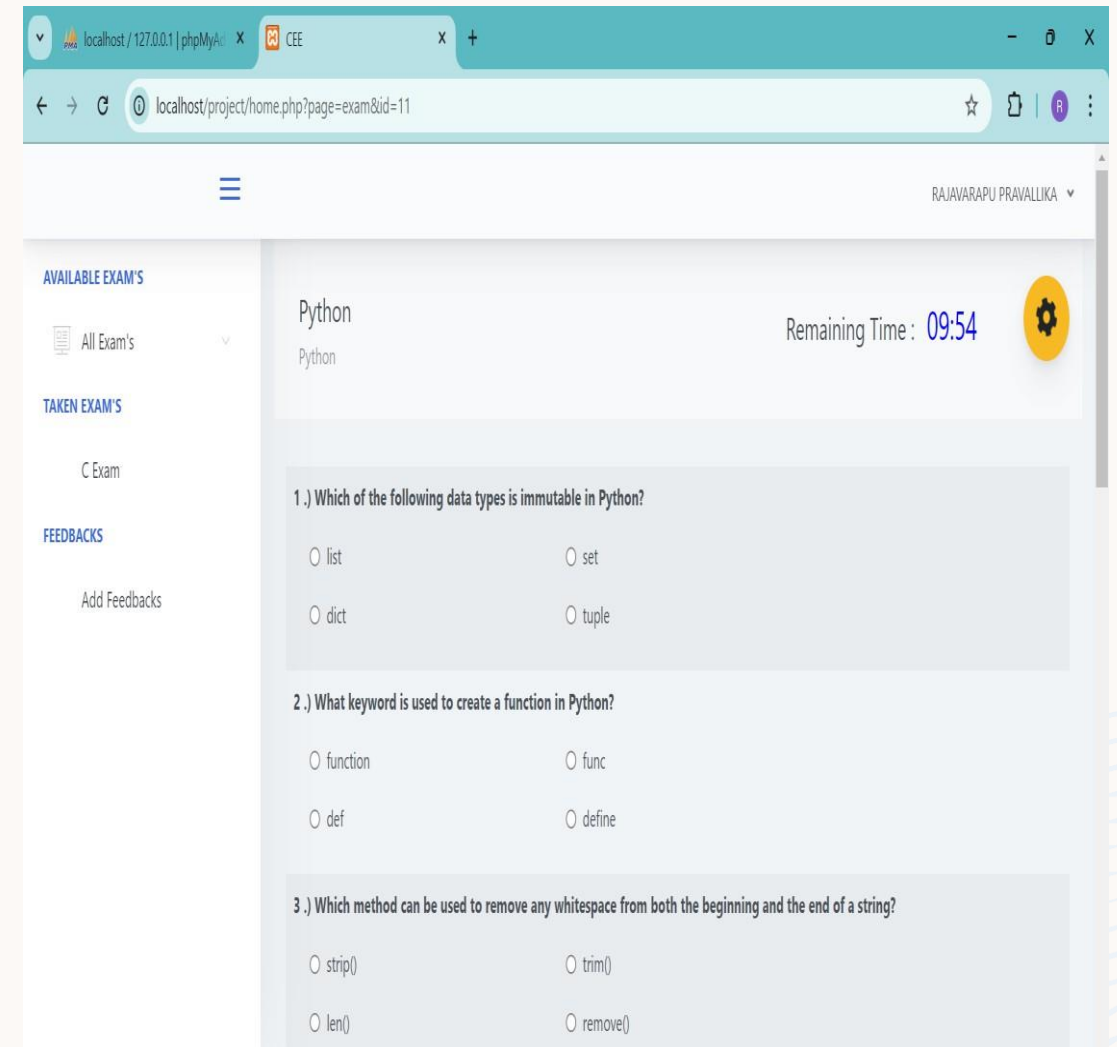
localhost/project/

**SIGN IN**

Email pravallika@gmail.com

Password \*\*\*\*\*

Login



A screenshot of a web browser showing the examination interface. The browser's address bar displays 'localhost/project/home.php?page=exam&id=11'. The page has a header with a hamburger menu icon and the user name 'RAJAVARAPU PRAVALLIKA'. The main content area is divided into two columns. The left column contains a sidebar with links for 'AVAILABLE EXAM'S' (All Exam's), 'TAKEN EXAM'S' (C Exam), and 'FEEDBACKS' (Add Feedbacks). The right column displays the exam details for 'Python', showing a 'Remaining Time : 09:54' and a settings gear icon. Below this, there are three questions with multiple-choice options.

localhost / 127.0.0.1 | phpMyAdmin x CEE x +

localhost/project/home.php?page=exam&id=11

RAJAVARAPU PRAVALLIKA

**AVAILABLE EXAM'S**

All Exam's

**TAKEN EXAM'S**

C Exam

**FEEDBACKS**

Add Feedbacks

Python

Python

Remaining Time : 09:54

1.) Which of the following data types is immutable in Python?

☐ list ☐ set

☐ dict ☐ tuple

2.) What keyword is used to create a function in Python?

☐ function ☐ func

☐ def ☐ define

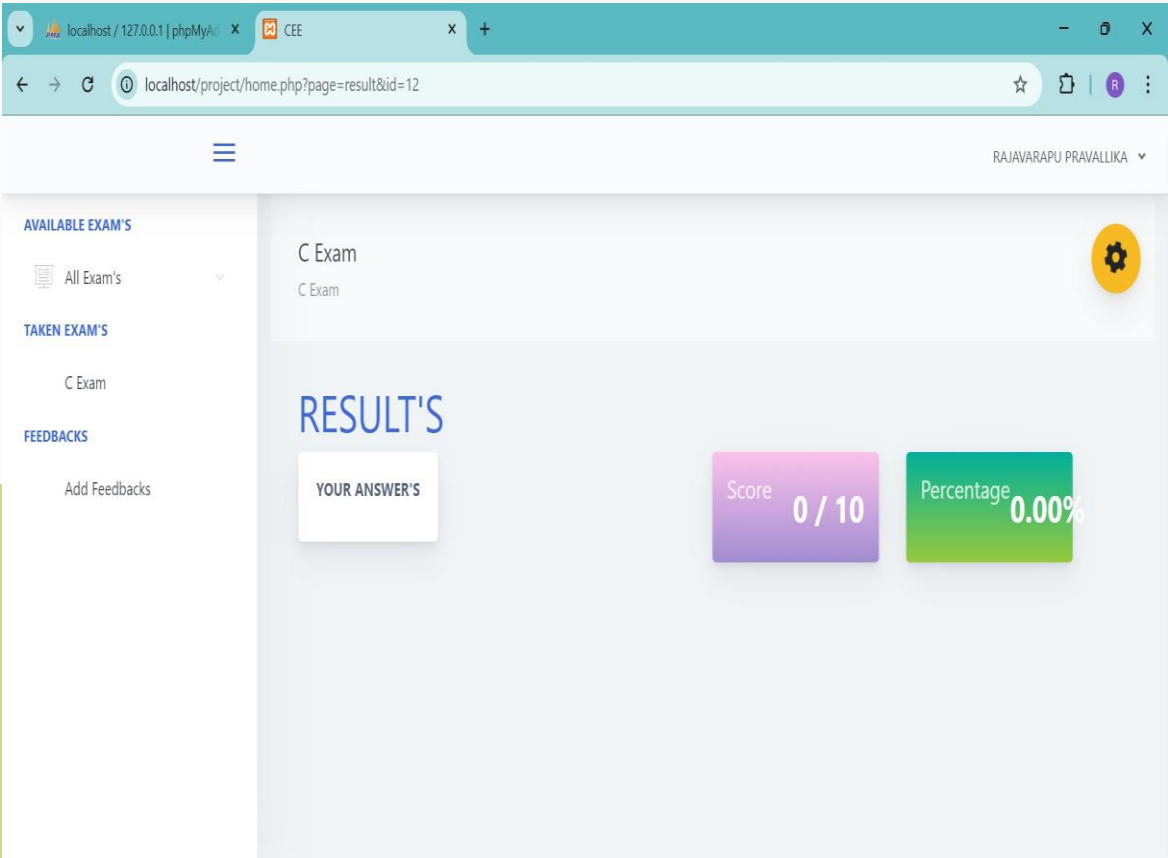
3.) Which method can be used to remove any whitespace from both the beginning and the end of a string?

☐ strip() ☐ trim()

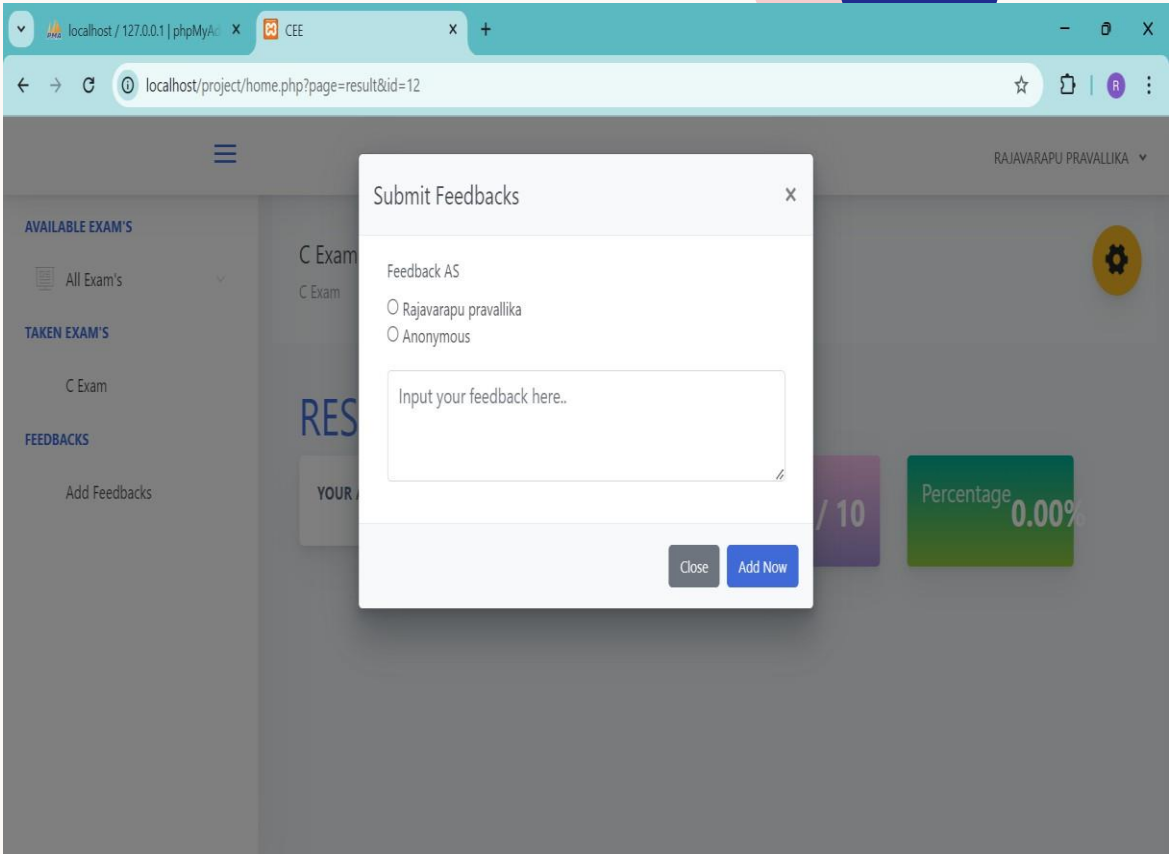
☐ len() ☐ remove()



# RESULTS AFTER ATTEMPTING THE EXAM



# FEEDBACK



## DATABASE

## SAMPLE CODE

## HOME

```
CREATE TABLE `admin_acc` (  
  `admin_id` int(11) NOT NULL,  
  `admin_user` varchar(1000) NOT NULL,  
  `admin_pass` varchar(1000) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
  
INSERT INTO `admin_acc` (`admin_id`, `admin_user`, `admin_pass`) VALUES  
(1, 'admin@username', 'admin@password');  
  
CREATE TABLE `course_tbl` (  
  `cou_id` int(11) NOT NULL,  
  `cou_name` varchar(1000) NOT NULL,  
  `cou_created` timestamp NOT NULL DEFAULT current_timestamp() ON UPDATE  
current_timestamp()  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;  
  
INSERT INTO `course_tbl` (`cou_id`, `cou_name`, `cou_created`) VALUES  
(25, 'CSE', '2019-11-27 09:26:08'),  
(26, 'IT', '2019-11-25 13:22:42')
```

```
<link href="./main.css"  
rel="stylesheet"></head>  
<body>  
  <div class="app-container app-  
theme-white body-tabs-shadow fixed-  
sidebar fixed-header">  
    <div class="app-header header-  
shadow">  
      <div class="app-  
header__logo">  
        <div class="logo-  
src"></div>  
        <div  
class="header__pane ml-auto">  
          <div>  
            <button  
type="button" class="hamburger close-  
sidebar-btn hamburger--elastic" data-  
class="closed-sidebar">  
              <span  
class="hamburger-box">  
                <span  
class="hamburger-inner"></span> <span
```

# FUTURE SCOPE

The future scope of the **Online Quiz Examination System** includes several advancements. Integration of AI-based proctoring can ensure secure and fair assessments. The system could also adopt adaptive quizzes that adjust based on a student's performance, enhancing personalized learning. Expanding to multilingual support would cater to a more diverse user base. Additionally, developing a mobile app would increase accessibility, allowing students to take quizzes on-the-go. Advanced analytics and reporting can provide deeper insights into student performance, benefiting both educators and learners

# CONCLUSION

After testing the **Online Quiz Examination System**, we found that it works well and makes the quiz process easier for both students and administrators. Students liked how simple it was to take quizzes, see their results, and get feedback right away. The system automatically checks answers and provides scores, which helped students understand their performance quickly.

For administrators, the system allowed easy management of quizzes, student accounts, and results. However, there is still a chance to improve the system by adding more features, like creating question banks and randomizing quiz questions to reduce cheating.

In conclusion, the **Online Quiz Examination System** is a helpful tool for online exams. It makes the process faster and easier, and with a few more improvements, it can be a great way for schools to assess students remotely.

**THANK  
YOU**