



Dr. Vishwanath Karad

**MIT WORLD PEACE
UNIVERSITY** | PUNE

TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS

**Faculty of Science
School of Computer Science
2020-2021**

**A
PROJECT REPORT ON
ONLINE EXAMINATION
PORTAL**

**BY
Omkar Chavan(1132190345)
Kiran Labhade(1132190348)
Ganesh Tikar(1132190323)**

**IN PARTIAL FULFILLMENT OF
MASTERS OF COMPUTER APPLICATIONS**

Dr. Vishwanath Karad MIT- World Peace University, Pune.



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**Faculty of Science
School of Computer Science
Mini Project**

CERTIFICATE

This is to certify that Mr. / Ms. /Mrs. **OMKAR CHAVAN** studying in S.Y MCA in MIT-WPU School of Computer Science has successfully completed the mini project work titled **ONLINE EXAMINATION PORTAL** in partial fulfillment of requirement for the award of MCA prescribed by the MIT World Peace University, Pune from 01-11-2020 to 20-01-2021.

This project is the record of authentic work carried out by him / her out during the academic year 2020 – 2021.

Dr. Shankar Mali

Dr. Rajeshree Khande

Dr. C. H. Patil

Dr. Shubhalaxmi Joshi

**Internal Project
Guide**

AHOS

Head of School

Associate Dean

Faculty of Science

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This is to certify that Mr. / Ms. /Mrs. **GANESH TIKAR** studying in S.Y MCA in MIT-WPU School of Computer Science has successfully completed the mini project work titled **ONLINE EXAMINATION PORTAL** in partial fulfillment of requirement for the award of MCA prescribed by the MIT World Peace University, Pune from 01-11-2020 to 20-01-2021.

This project is the record of authentic work carried out by him / her out during the academic year 2020 – 2021.

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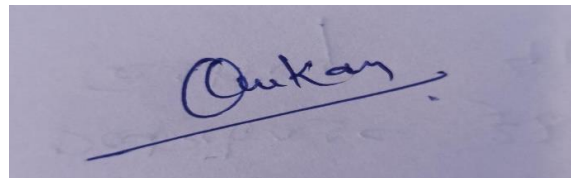
CERTIFICATE OF COMPLETION

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DECLARATION

I, Mr. / Ms. / Mrs. OMKAR CHAVAN hereby declare that this project is the record of authentic work carried out by me during the academic year 2020-2021. This project is plagiarism-free and has not been submitted to any other University or Institute towards the award of any degree.

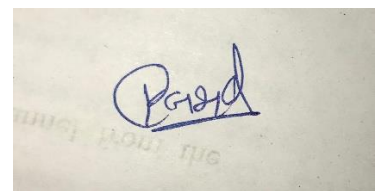


Signature of the student
(Omkar Chavan)
S.Y.MCA

PRN of the student
1132190345

DECLARATION

I, Mr. / Ms. / Mrs. KIRAN LABHADE hereby declare that this project is the record of authentic work carried out by me during the academic year 2020-2021. This project is plagiarism-free and has not been submitted to any other University or Institute towards the award of any degree.



Signature of the student

(Kiran Labhade)

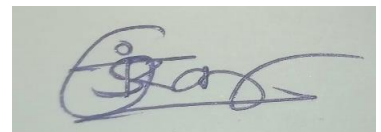
S.Y.MCA

PRN of the student

1132190348

DECLARATION

I, Mr. / Ms. / Mrs. GANESH TIKAR hereby declare that this project is the record of authentic work carried out by me during the academic year 2020-2021. This project is plagiarism-free and has not been submitted to any other University or Institute towards the award of any degree.



Signature of the student

(Ganesh Tikar)

S.Y.MCA

PRN of the student

1132190323

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I wish to express my deep sense of gratitude and honor towards the faculty for giving us a chance and platform to work on such projects.

I wish to thank everyone in the organization that helped me during project development from time to time. I also express my honor and gratitude to **Dr. Shankar Mali** and constant encouragement for completing my project work successfully.

I also express my honor and gratitude to **Dr. Rajeshree Khande** for giving us this opportunity.

I also want to thank **Dr. C. H. Patil** for constant encouragement and help for completing my project work successfully. And last but not the least, I express my gratitude towards **Dr. Shubhalaxmi Joshi**, for always being there as our guide.

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INTRODUCTION

Online examinations contents providers to focus on creating effective assessment questions and focusing on exam's feedback delivery to students. In the paper we present techniques that are pertinent to the elements of assessment process: answers submission, computerized grading, and feedback after submission.

As the modern organizations are automated and computers are working as per the instructions, it becomes essential for the coordination of human beings, commodity and computers in a modern organization.

The Administrators, Instructor, Students who are attending for online examination can communicate with the system through this project, thus facilitating effective implementation and monitoring of various activities of Online Examinations like conducting Exams as per scheduled basis and delivering result to that particular user or student and the details of students who attempted Online Examination are maintained at administrator.

EXISTING SYSTEM AND NEED OF THE SYSTEM

Existing system is a manual one in which users are maintaining books to store the information like Student Details, Instructor Details, Schedule Details and feedbacks about students who attempted exam as per schedule. It is very difficult to maintain historical data.

The following drawbacks of existing system emphasize the need for computerization:

1. A lot of copies of question papers have to be made
2. A lot of correction work hence delay in giving the results
3. A lot of tabulation work for each subject results

OPERATING ENVIRONMENT

Hardware Requirements:

- Pentium-IV(Processor).
- 256 MB Ram
- 512 KB Cache Memory
- Hard disk 10 GB
- Microsoft Compatible 101 or more Key Board

Software Requirements:

- Operating System: Windows
- Web-Technology: PHP
- Front-End: HTML, CSS, JAVASCRIPT
- Back-End: MySQL
- Web Server: Apache SERVER

DESCRIPTION OF TECHNOLOGY USED

HTML:

Hypertext Mark-up Language (HTML) is the standard mark-up language for documents designed to be displayed in a web browser.

It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript and VBScript.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by *tags*, written using angle brackets.

HTML can embed programs written in a scripting language such as JavaScript which affects the behaviour and content of web pages.

Inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), former maintainer of the HTML and current maintainer of the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997.

CSS:

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language like HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colours, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, and reduce complexity and repetition in the structural content.

Separation of formatting and content also makes it feasible to present the same mark-up page in different styles for different rendering methods, such as on-screen, in print, by voice (via speechbased browser or screen reader), and on Braille-based tactile devices. CSS also has rules for alternate formatting if the content is accessed on a mobile device.

The name *cascading* comes from the specified priority scheme to determine which style rule applies if more than one rule matches a particular element. This cascading priority scheme is predictable.

PHP:

PHP is a popular general-purpose scripting language that is especially suited to web development. It was originally created by

Danish-Canadian programmer Rasmus Lerdorf in 1994; the

PHP reference implementation is now produced by The PHP Group. PHP

originally stood for *Personal Home Page*, but it now stands for the recursive initialism *PHP: Hypertext Pre-processor*.

PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of a HTTP response. Various web template systems, web content management systems, and web frameworks exist which can be employed to orchestrate or facilitate the generation of that response. Additionally, PHP can be

used for many programming tasks outside of the web context, such as standalone graphical applications and robotic drone control. Arbitrary PHP code can also be interpreted and executed via command-line interface (CLI).

The standard PHP interpreter, powered by the Zend Engine, is free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers on almost every operating system and platform, free of charge.

The PHP language evolved without a written formal specification or standard until 2014, with the original implementation acting as the *de facto* standard which other implementations aimed to follow. Since 2014, work has gone on to create a formal PHP specification.

PROPOSED SYSTEM

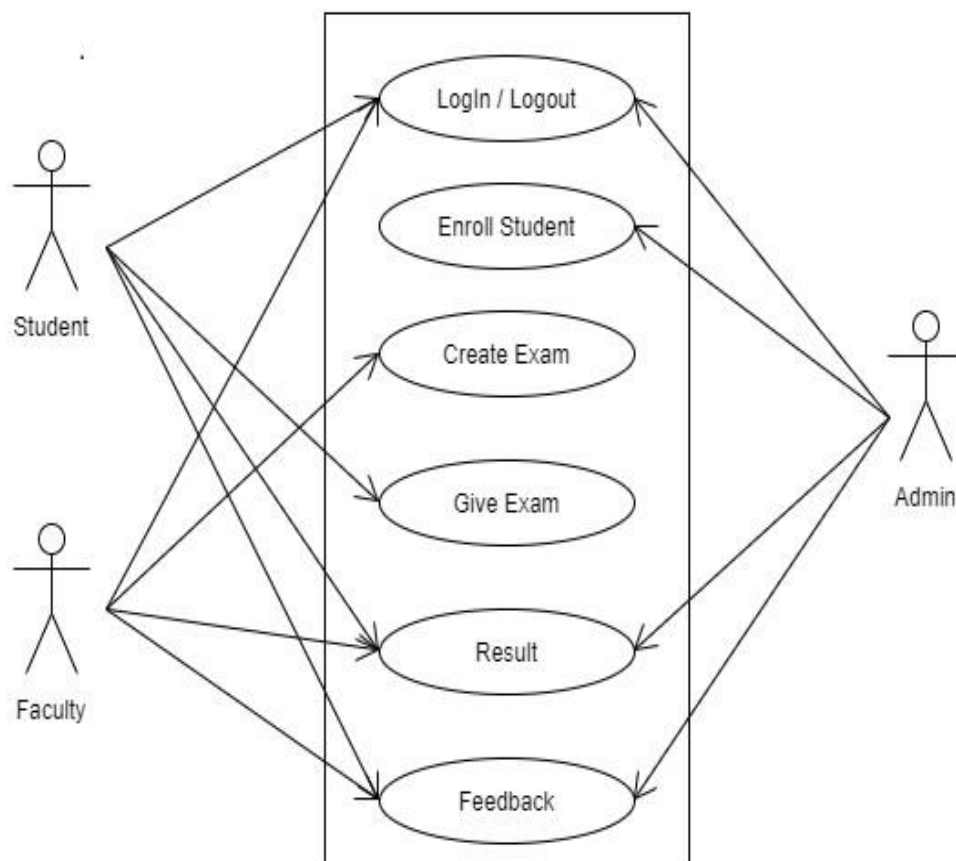
This application is used to conduct online examination. The students can sit at individual terminals and login to write the exam in the given duration. The questions have to be given to the students. This application will perform correction, display the result immediately and also store it in database. This application provides the administrator with a facility to add new exam. This application provides the Instructor add questions to the exam, modify questions in the exam in a particular exam. This application takes care of authentication of the administrator, Instructor as well as the student.

OBJECTIVE OF THE SYSTEM

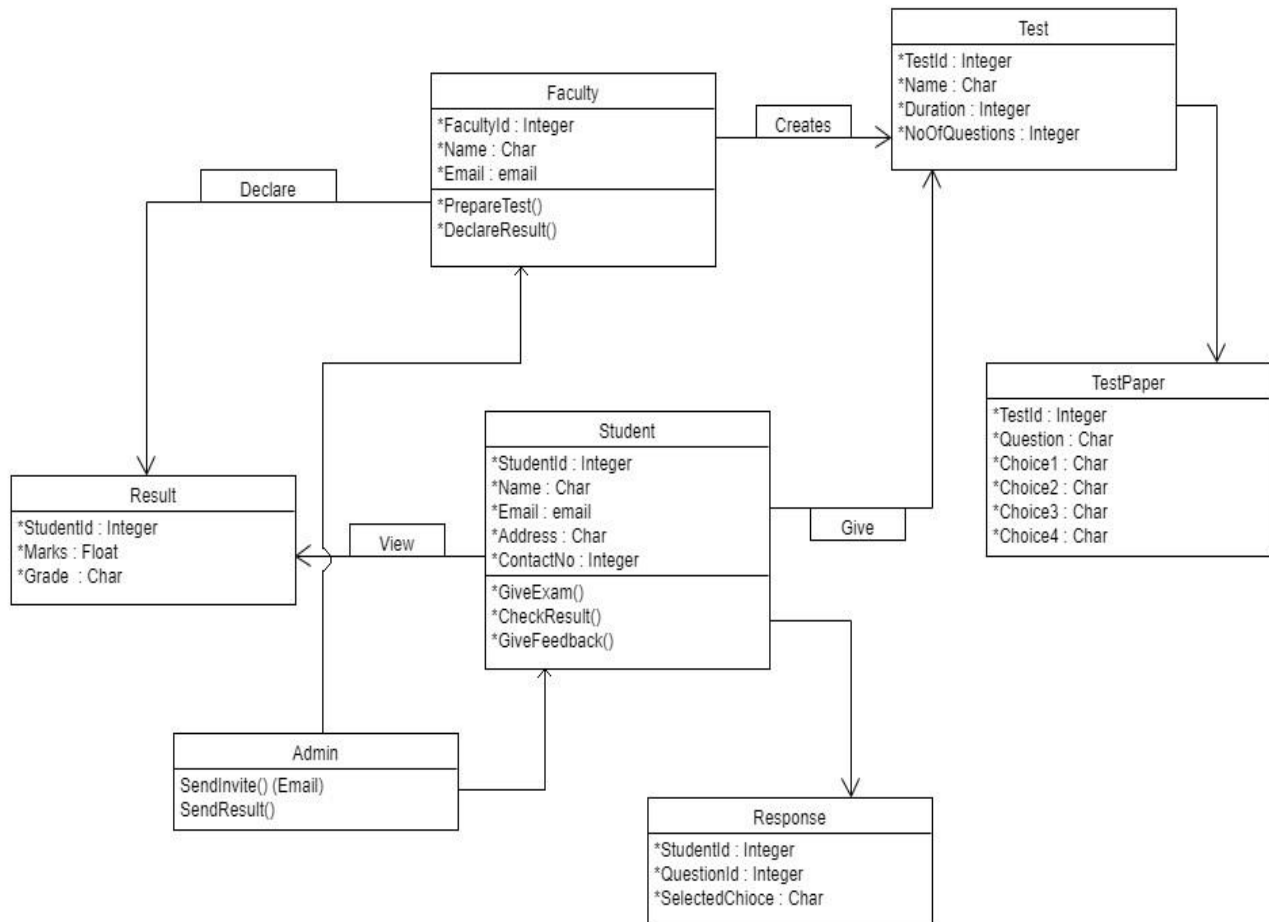
The objective of the Online Examination Tool is to provide better information for the users of this system for better results for their maintenance in student examination schedule details and grading details.

SYSTEM DESIGNING

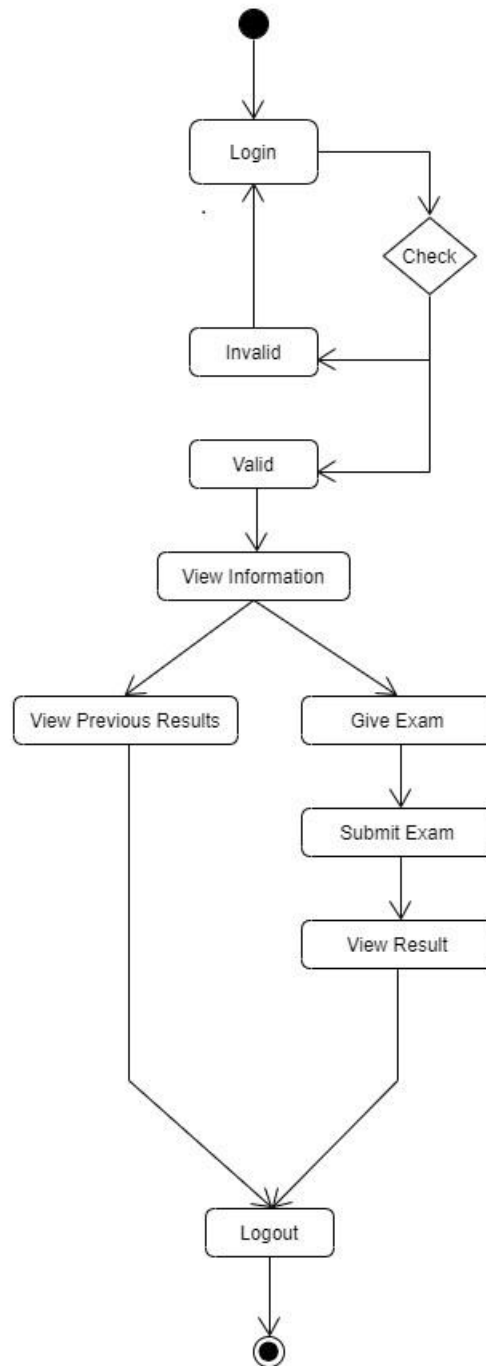
Use Case Diagram:



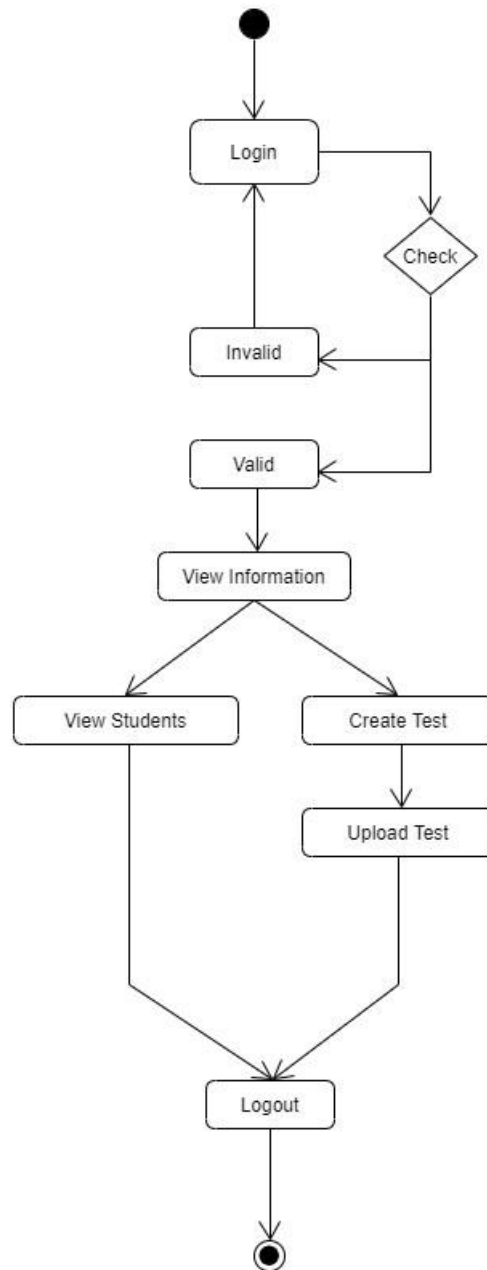
Class Diagram:



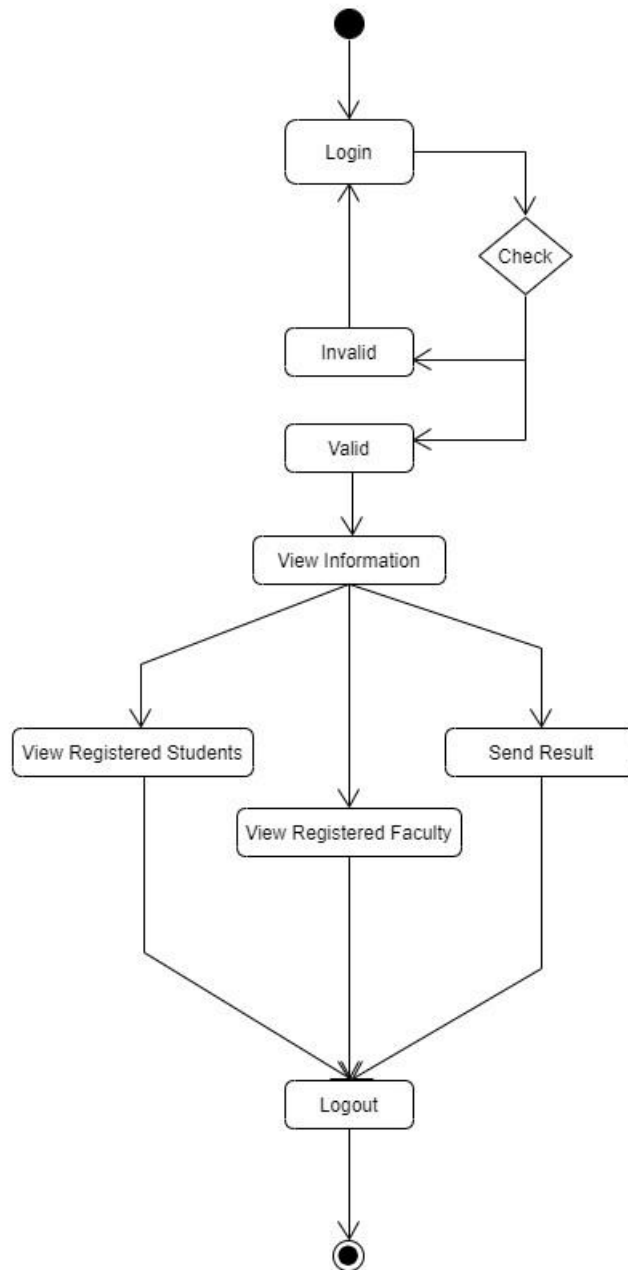
Activity Diagram (Student):



Activity Diagram (Faculty):

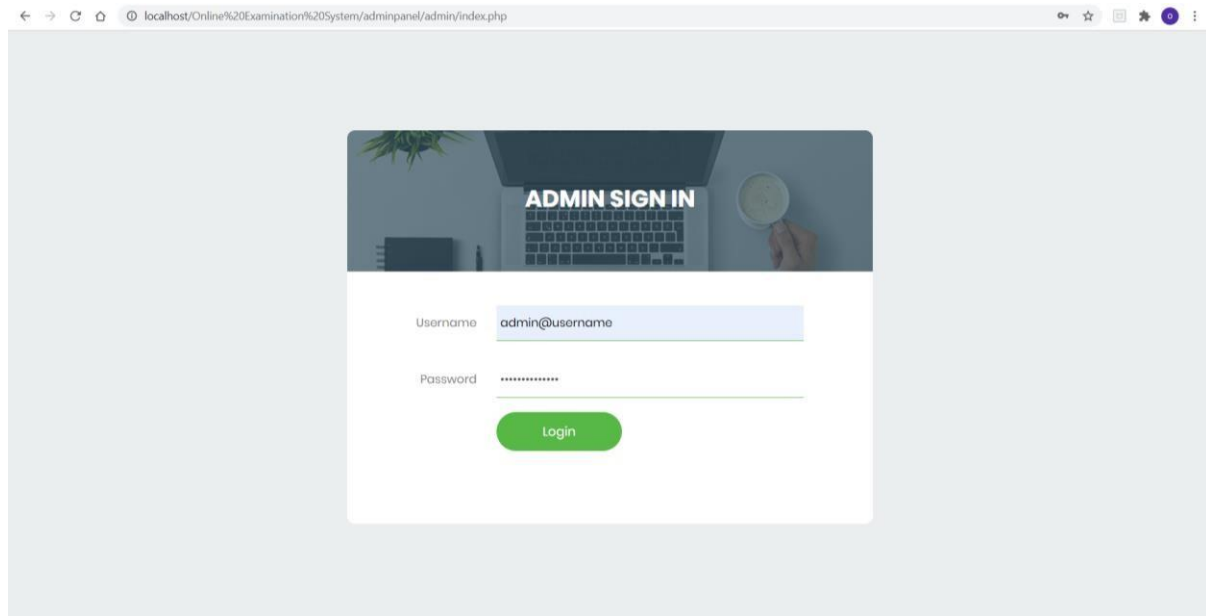


Activity Diagram (Admin):



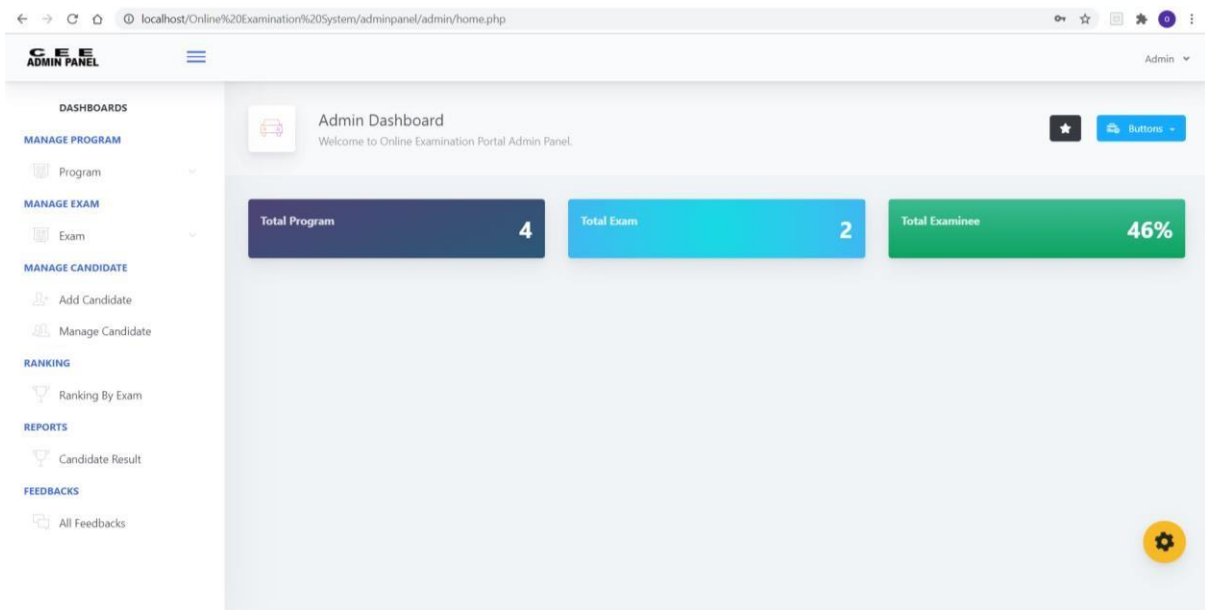
INPUT & OUTPUT SCREENS

Admin Login:



The screenshot shows a web browser window with the URL `localhost/Online%20Examination%20System/adminpanel/admin/index.php`. The page features a central white login form on a light gray background. The form has a header image with the text "ADMIN SIGN IN". Below the header, there are two input fields: "Username" with the value "admin@username" and "Password" with masked characters "*****". A green "Login" button is positioned below the password field.

Admin Dashboard:



The screenshot displays the Admin Dashboard of the Online Examination Portal. The dashboard includes a sidebar with navigation links and a main content area with summary cards and a settings icon.

ADMIN PANEL

DASHBOARDS

- MANAGE PROGRAM
 - Program
- MANAGE EXAM
 - Exam
- MANAGE CANDIDATE
 - Add Candidate
 - Manage Candidate
- RANKING
 - Ranking By Exam
- REPORTS
 - Candidate Result
- FEEDBACKS
 - All Feedbacks

Admin Dashboard
Welcome to Online Examination Portal Admin Panel.

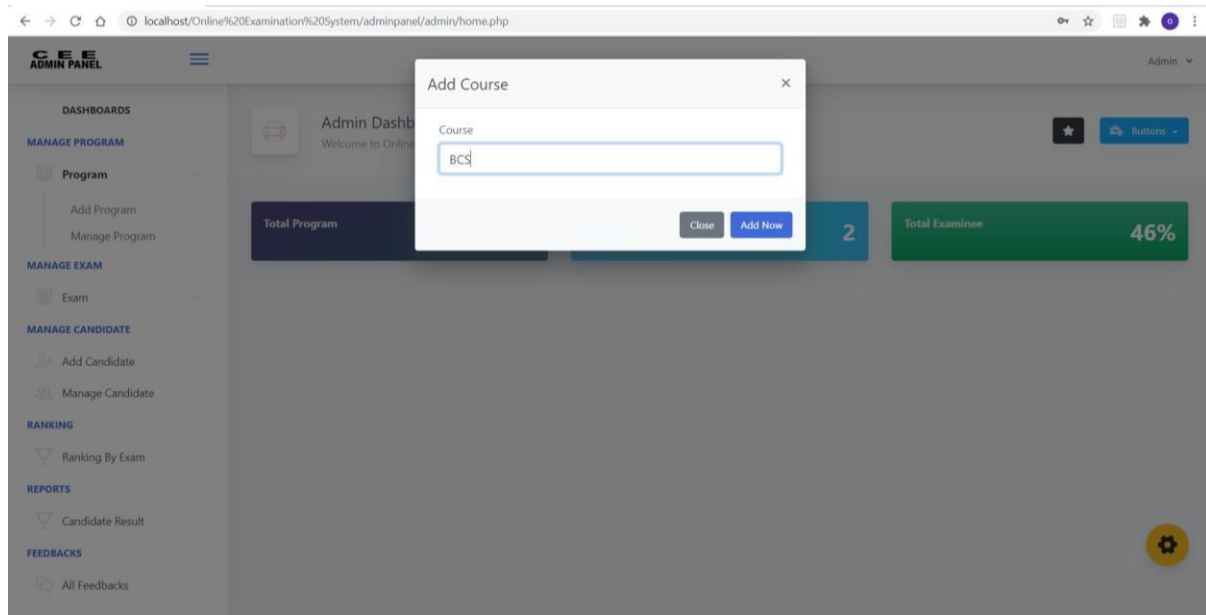
Total Program 4

Total Exam 2

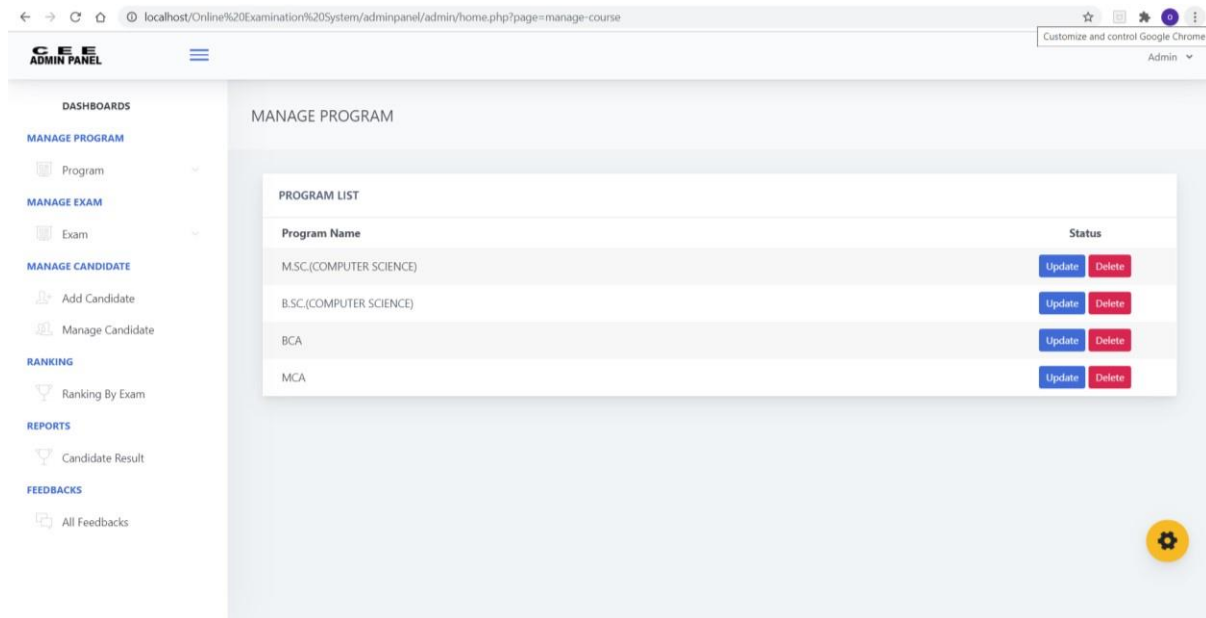
Total Examinee 46%

Settings

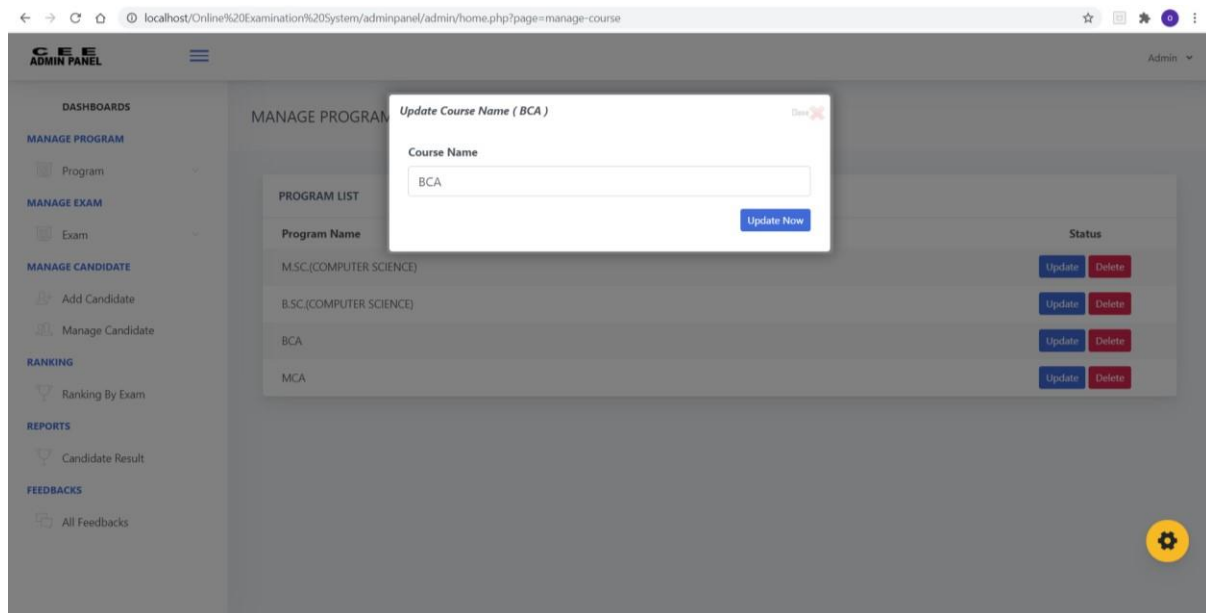
Add Program:



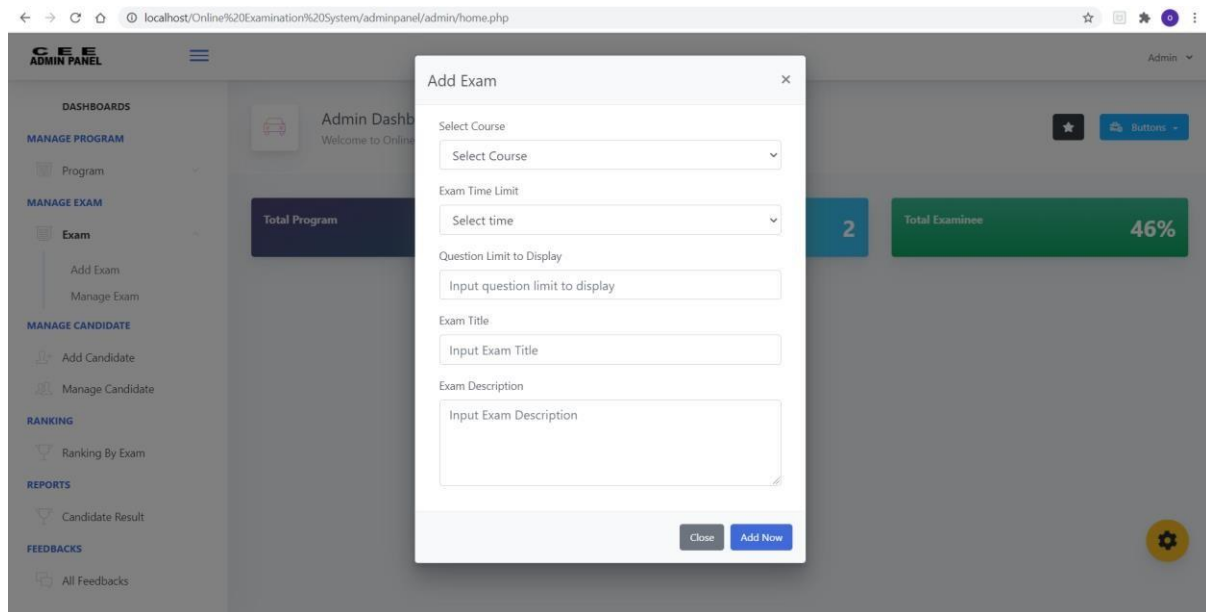
Manage Program:



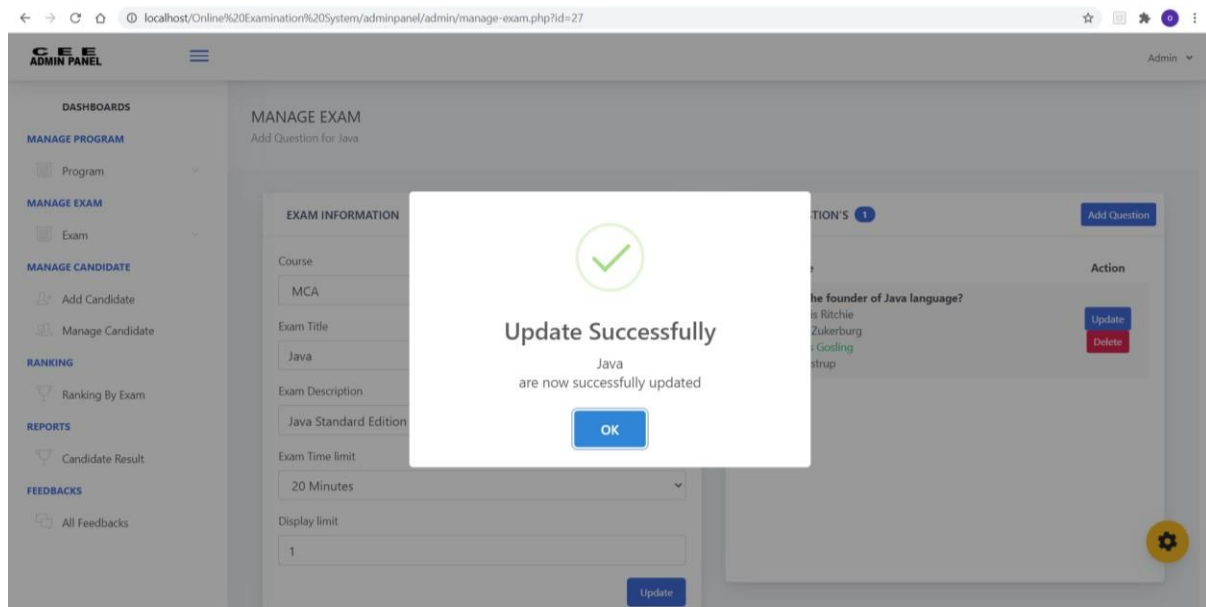
Update Program Name:



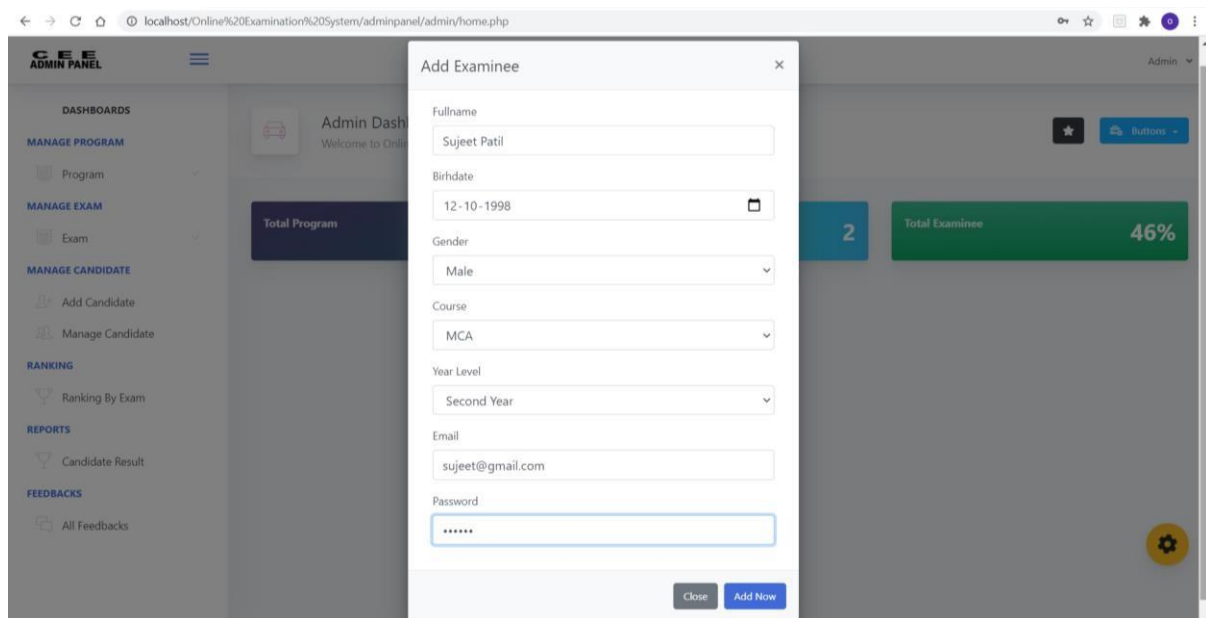
Add Exam:



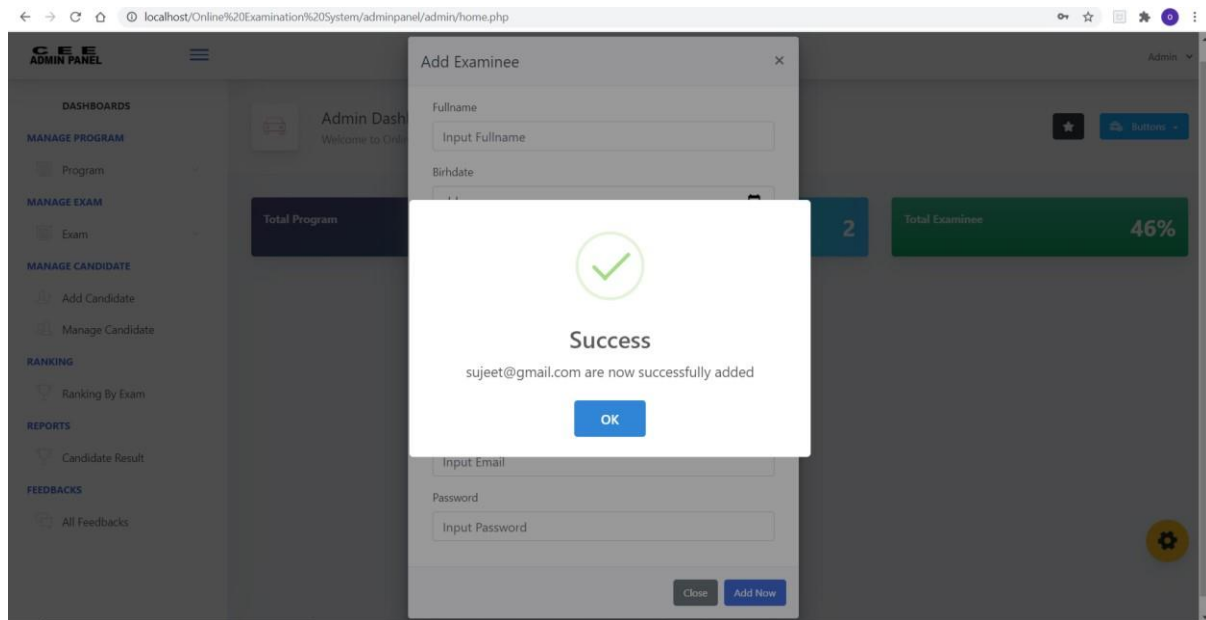
Manage Exam:



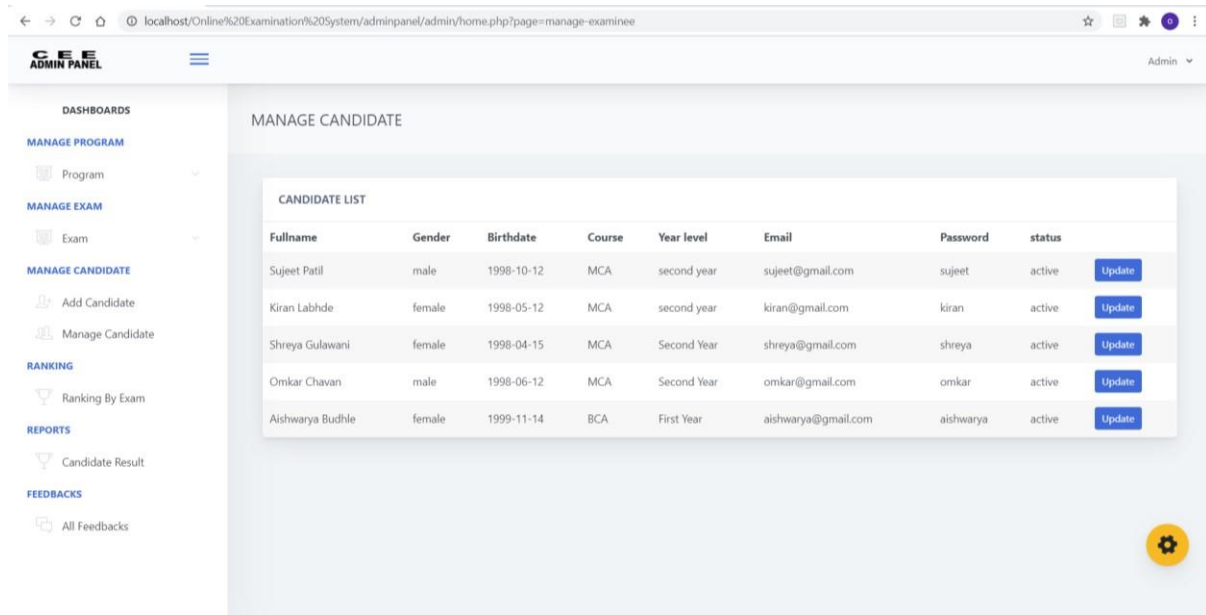
Add Candidate:



Candidate Added:



Manage Candidate:



Ranking by Exam:

CEE ADMIN PANEL

Admin

DASHBOARDS

MANAGE PROGRAM

Program

MANAGE EXAM

Exam

MANAGE CANDIDATE

Add Candidate

Manage Candidate

RANKING

Ranking By Exam

REPORTS

Candidate Result

FEEDBACKS

All Feedbacks

RANKING BY EXAM

Exam Name : Java

Excellence Very Good Good Failed Not Answering

Examinee Fullname	Score / Over	Percentage
Omkar Chavan	1 / 1	100%
Shreya Gulawani	1 / 1	100%
Kiran Labhde	Not answer yet	Not answer yet
Sujeet Patil	Not answer yet	Not answer yet

Result:

CEE ADMIN PANEL

Admin

DASHBOARDS

MANAGE PROGRAM

Program

MANAGE EXAM

Exam

MANAGE CANDIDATE

Add Candidate

Manage Candidate

RANKING

Ranking By Exam

REPORTS

Candidate Result

FEEDBACKS

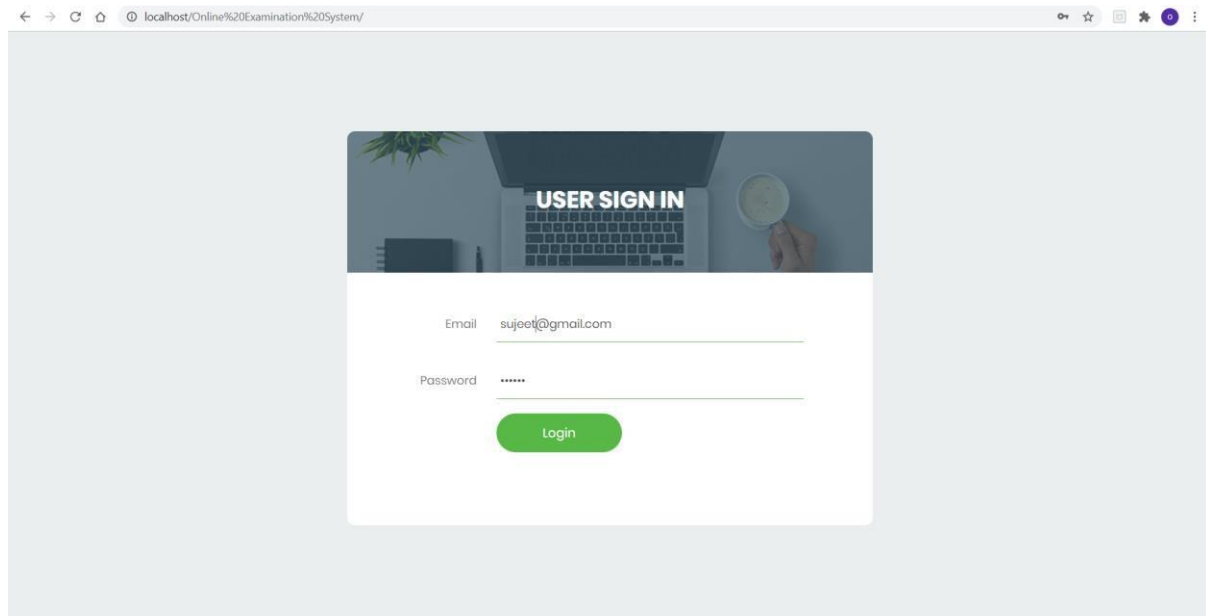
All Feedbacks

EXAMINEE RESULT

Fullname	Exam Name	Scores	Ratings
Omkar Chavan	Java	1 / 1	100%
Aishwarya Budhle	c++	0 / 1	0%
Shreya Gulawani	Java	1 / 1	100%
Shreya Gulawani	Java	1 / 1	100%

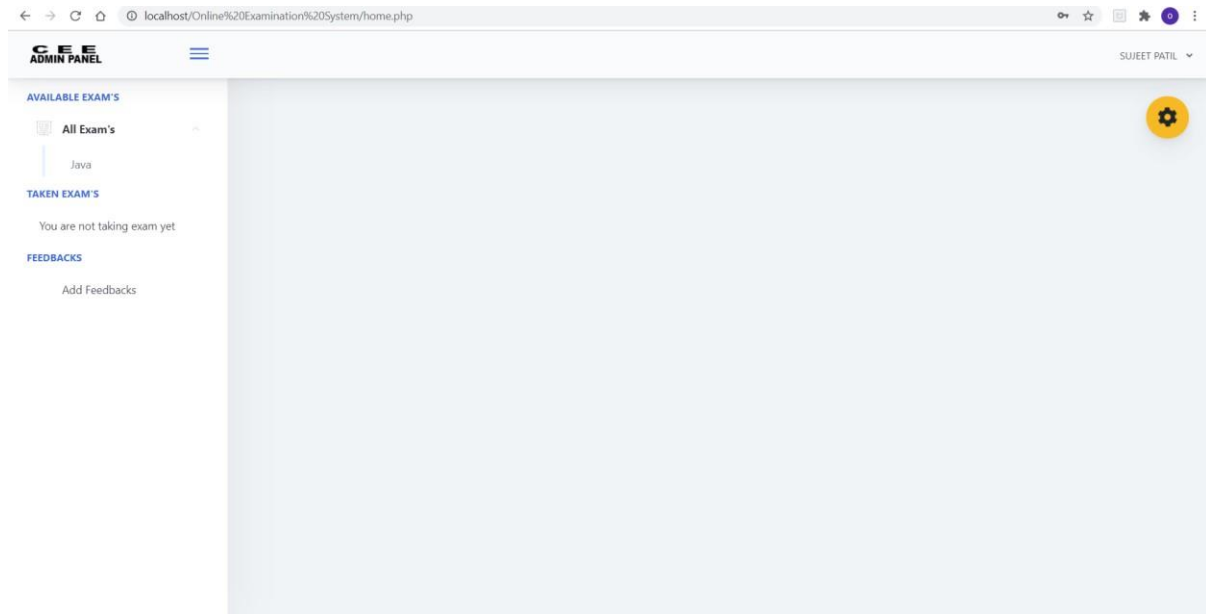
Print Result

User Login:



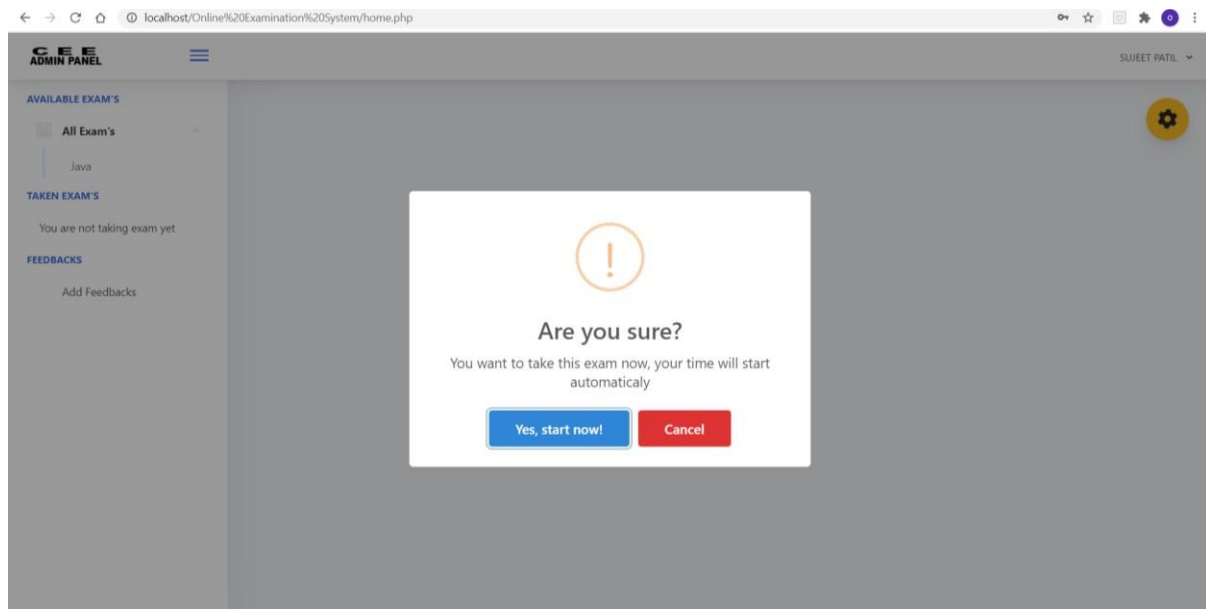
A screenshot of a web browser displaying a "USER SIGN IN" form. The browser's address bar shows "localhost/Online%20Examination%20System/". The form is centered on a light gray background. It features a header image with a laptop and a hand holding a magnifying glass, with the text "USER SIGN IN" overlaid. Below the image, there are two input fields: "Email" with the value "sujoot@gmail.com" and "Password" with masked characters "*****". A green "Login" button is positioned below the password field.

User Dashboard:

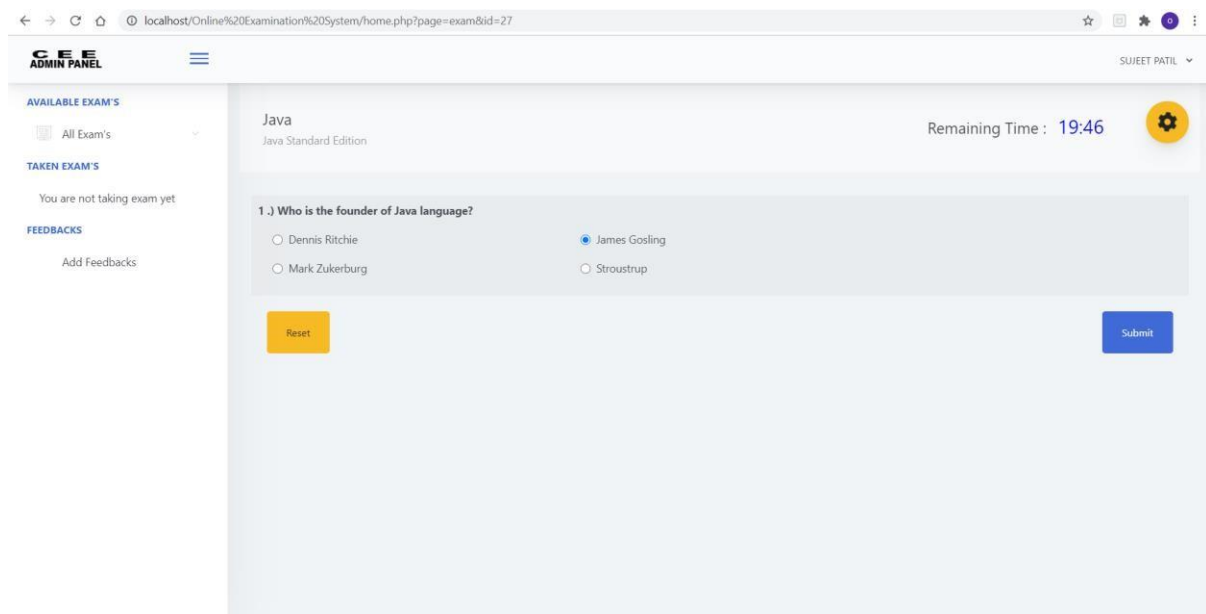


A screenshot of a web browser displaying a user dashboard. The browser's address bar shows "localhost/Online%20Examination%20System/home.php". The dashboard has a light blue header with the "CEE ADMIN PANEL" logo and a hamburger menu icon. The user's name "SUJEET PATIL" is displayed in the top right corner. The main content area is divided into three sections: "AVAILABLE EXAM'S" with a link to "All Exam's", "TAKEN EXAM'S" with the message "You are not taking exam yet", and "FEEDBACKS" with a link to "Add Feedbacks". A yellow gear icon for settings is located in the top right corner of the main content area.

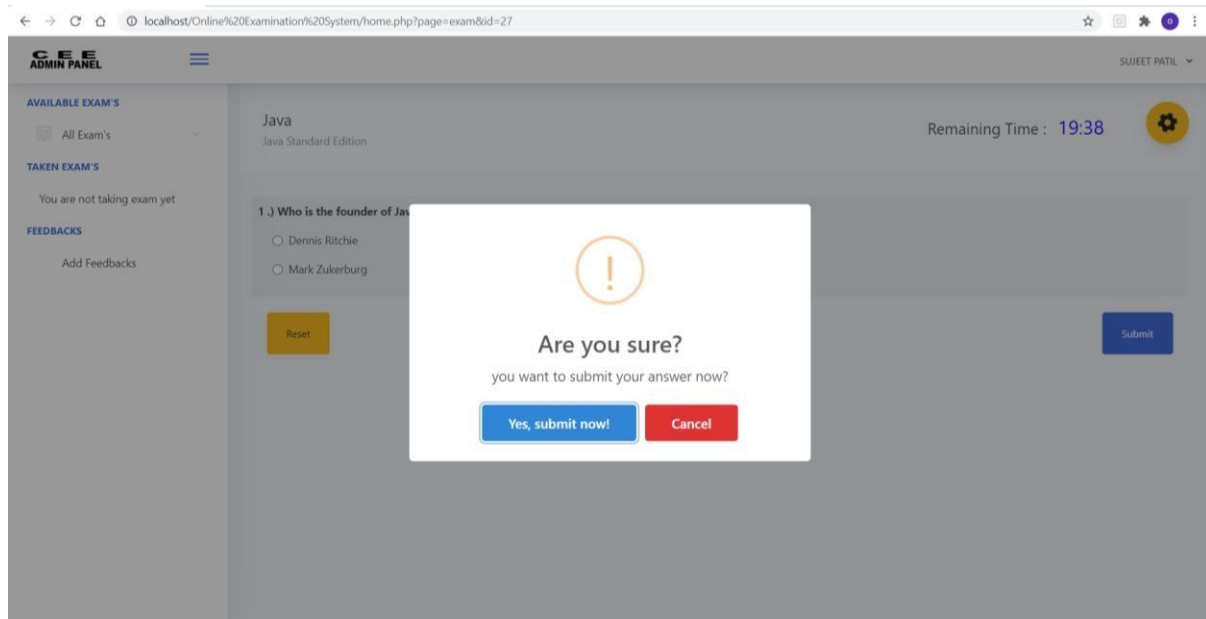
Alert Message before Exam:



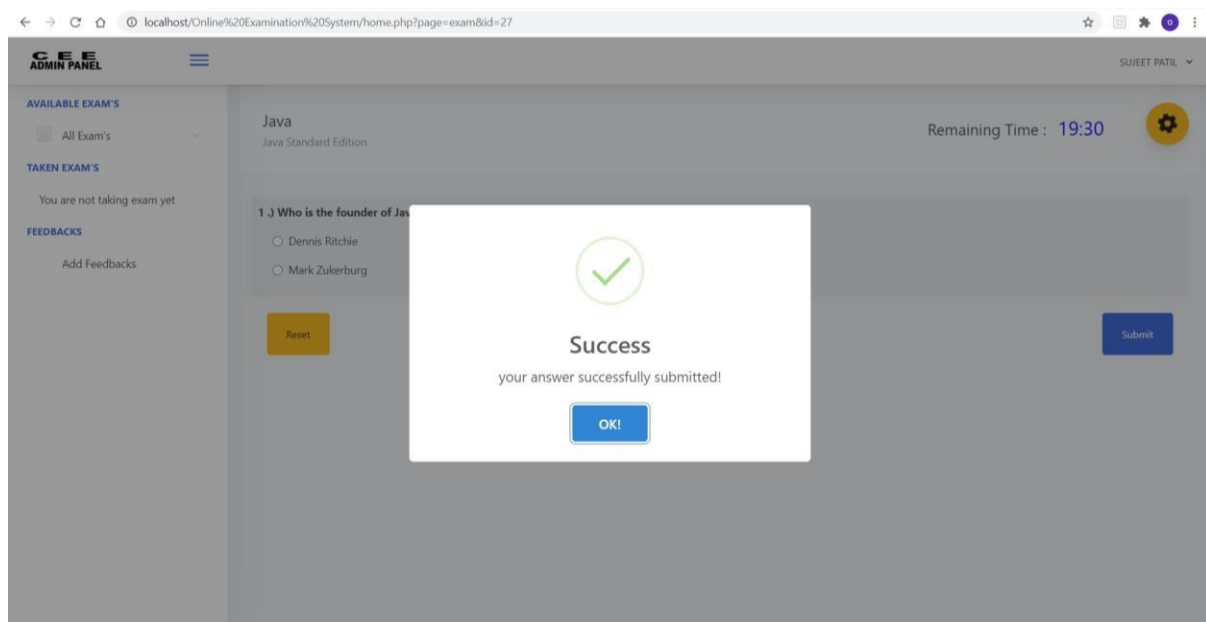
Student attempting an Exam:



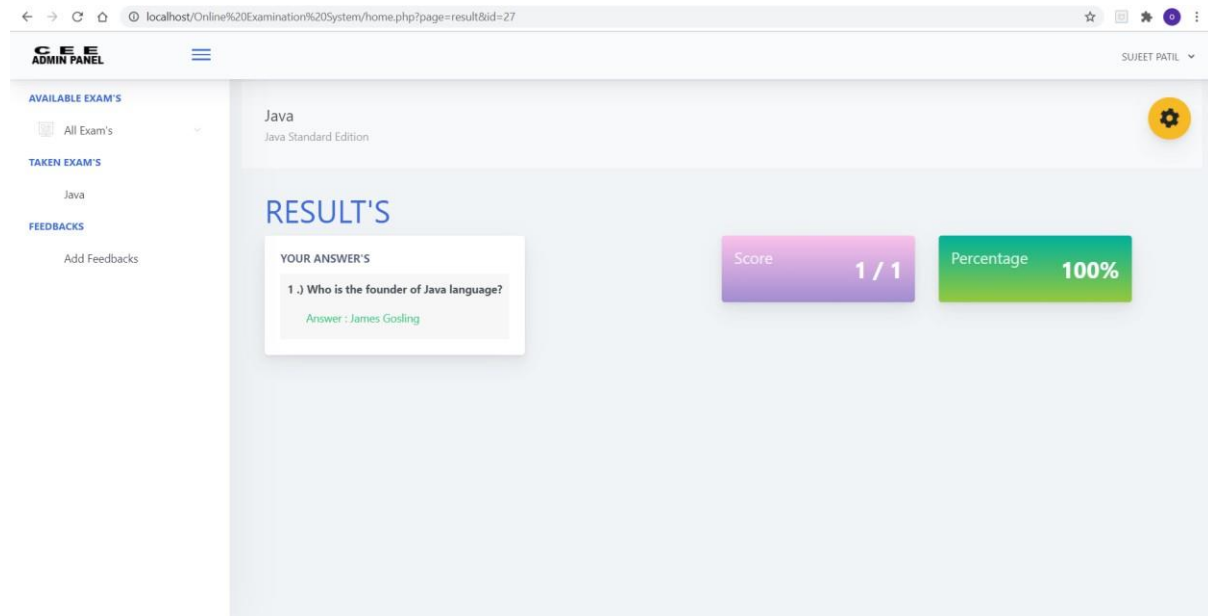
Submit Alert Message for Student:



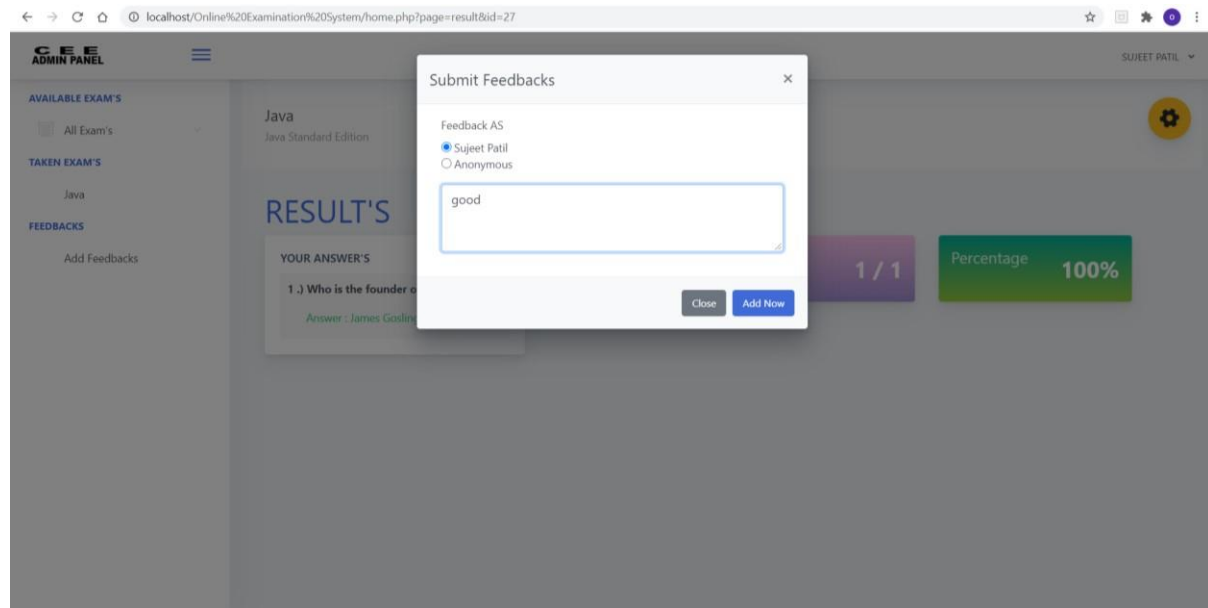
Exam Submitted:

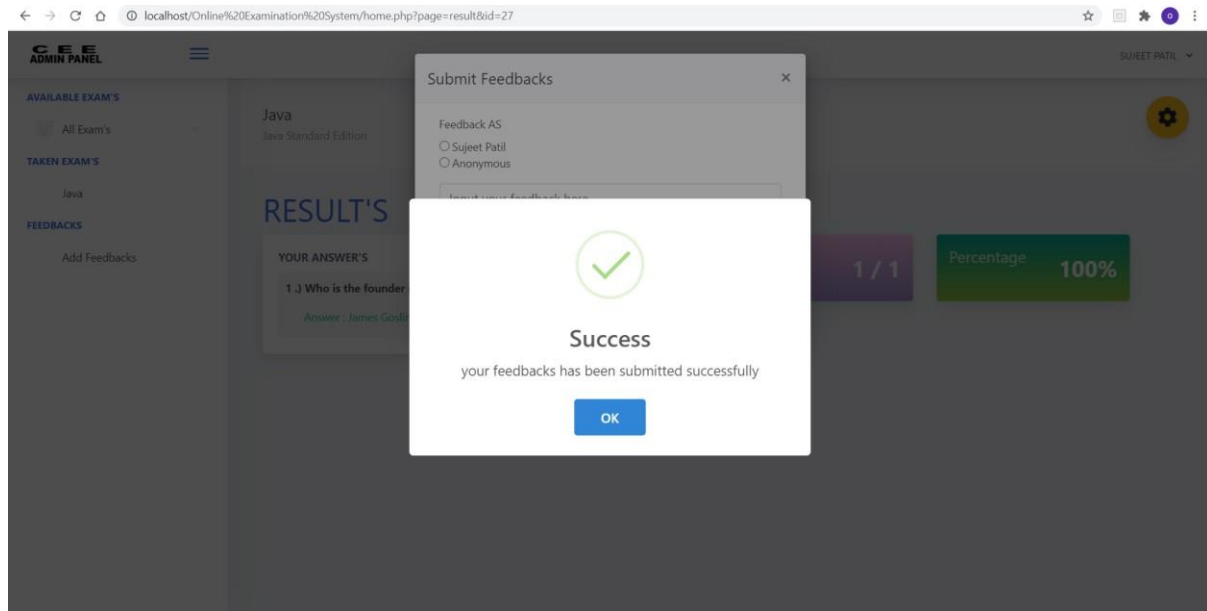


Result:



Student Feedback:





DATABASE CONNECTIVITY

admin acc:

<u>Sr.No</u>	<u>Name</u>	<u>Type</u>
1	admin_id	int(11)
2	admin_user	varchar(1000)
3	admin_pass	varchar(1000)

course tbl:

<u>Sr.No.</u>	<u>Name</u>	<u>Type</u>
1	cou_id	int(11)
2	cou_name	varchar(1000)
3	cou_created	Timestamp

exam answers:

<u>Sr.No.</u>	<u>Name</u>	<u>Type</u>
1	exam_id	int(11)
2	quest_id	int(11)
3	exam_ans	varchar(1000)
4	exam_status	varchar(1000)
5	exam_created	timestamp

exam tbl:

<u>Sr.No.</u>	<u>Name</u>	<u>Type</u>
<u>1</u>	<u>ex_id</u>	<u>int(11)</u>
<u>2</u>	<u>cou_id</u>	<u>int(11)</u>
<u>3</u>	<u>ex_title</u>	<u>varchar(1000)</u>
<u>4</u>	<u>ex_time_limit</u>	<u>varchar(1000)</u>
<u>5</u>	<u>ex_questlimit_display</u>	<u>int(11)</u>
<u>6</u>	<u>ex_description</u>	<u>varchar(1000)</u>
<u>7</u>	<u>exam_created</u>	<u>Timestamp</u>

exam que tbl:

<u>Sr.No.</u>	<u>Name</u>	<u>Type</u>
<u>1</u>	<u>eqt_id</u>	<u>int(11)</u>
<u>2</u>	<u>exam_id</u>	<u>int(11)</u>
<u>3</u>	<u>exam_question</u>	<u>varchar(1000)</u>
<u>4</u>	<u>exam_ch1</u>	<u>varchar(1000)</u>
<u>5</u>	<u>exam_ch2</u>	<u>varchar(1000)</u>
<u>6</u>	<u>exam_ch3</u>	<u>varchar(1000)</u>
<u>7</u>	<u>exam_ch4</u>	<u>varchar(1000)</u>
<u>8</u>	<u>exam_status</u>	<u>varchar(1000)</u>
<u>9</u>	<u>exam_created</u>	<u>Timestamp</u>

exam attempt:

<u>Sr.No.</u>	<u>Name</u>	<u>Type</u>
<u>1</u>	<u>examat_id</u>	<u>int(11)</u>
<u>2</u>	<u>exmne_id</u>	<u>int(11)</u>
<u>3</u>	<u>exam_id</u>	<u>int(11)</u>
<u>4</u>	<u>examat_status</u>	<u>varchar(1000)</u>

feedbacks table:

<u>Sr.No.</u>	<u>Name</u>	<u>Type</u>
<u>1</u>	<u>fb_id</u>	<u>int(11)</u>
<u>2</u>	<u>exmne_id</u>	<u>int(11)</u>
<u>3</u>	<u>fb_exmne_as</u>	<u>varchar(1000)</u>
<u>4</u>	<u>fb_feedbacks</u>	<u>varchar(1000)</u>
<u>5</u>	<u>fb_date</u>	<u>varchar(1000)</u>

TESTING

• Testing and Characteristics of Testing

After the implementation phase, the testing phase begins. Testing of software is critical, since testing determines the correctness, completeness and quality of the software being developed. Its main objective is to detect errors in the software.

The activities involved in testing phase basically evaluate the capability of the developed system and ensure that the system meets the desired requirements. It should be noted that testing is fruitful only if it is performed in the correct manner. Through effective software testing, the software can be examined for correctness, comprehensiveness, consistency and adherence to standards. This helps in delivering high-quality software products and lowering maintenance' costs, thus leading to more contented users.

Software testing is closely related to the terms verification and validation. Verification refers to the process of ensuring that the software is developed according to its specifications. For verification, techniques like reviews, analysis, inspections and walkthroughs are commonly used. While validation refers to the process of checking that the developed software meets the requirements specified by the user. **Verification** and **Validation** can be summarized thus as given here.

Verification: Is the software being developed in the right way

Validation: Is the right software being developed?

Software testing is performed either manually or by using automated tools to make sure that the software is functioning in accordance with the user requirements.

Various advantages associated with testing are listed below.

- ☐ It removes errors, which prevent software from producing outputs according to user requirements.
- ☐ It removes errors that lead to software failure.

- It ensures that the software conforms to business as well as user's needs.
- It ensures that the software is developed according to user requirements.
- It improves the quality of the software by removing maximum possible errors from it.

Characteristics of Testing:

There are several tests (such as unit and integration) used for testing the software. Each test has its own characteristics.

The following points, however, should be noted.

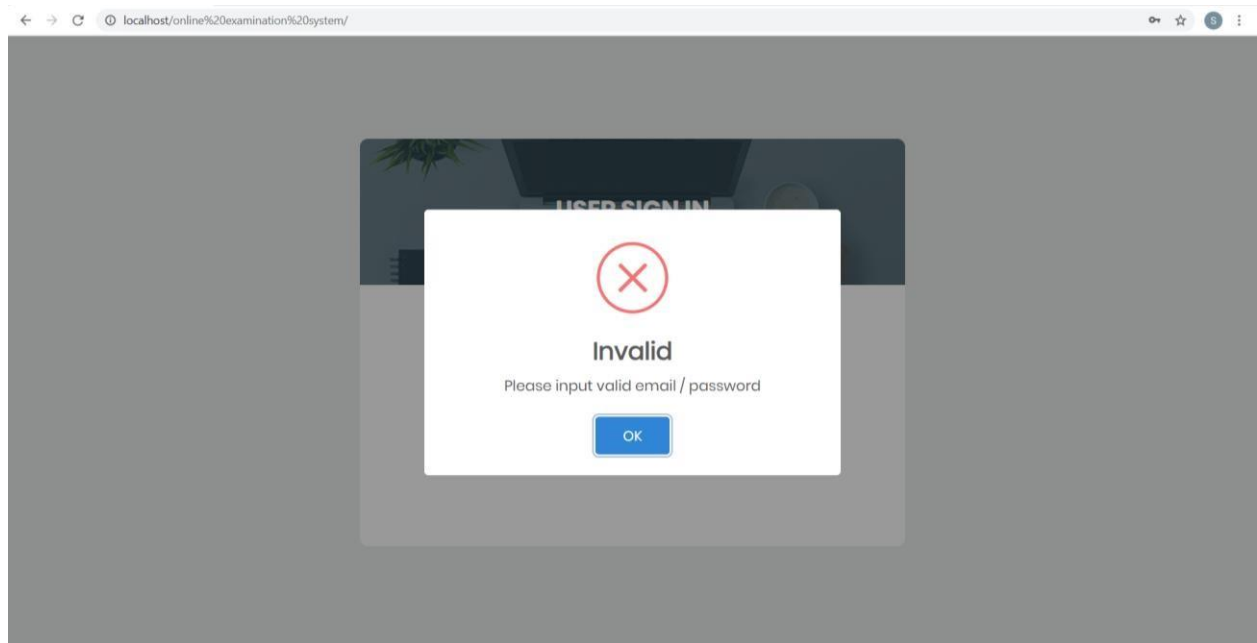
- **High probability of detecting errors:** To detect maximum errors, the tester should understand the software thoroughly and try to find the possible ways in which the software can fail. For example, in a program to divide two numbers, the possible way in which the program can fail is when 2 and 0 are given as inputs and 2 is to be divided by 0. In this

case, a set of tests should be developed that can demonstrate an error in the division operator.

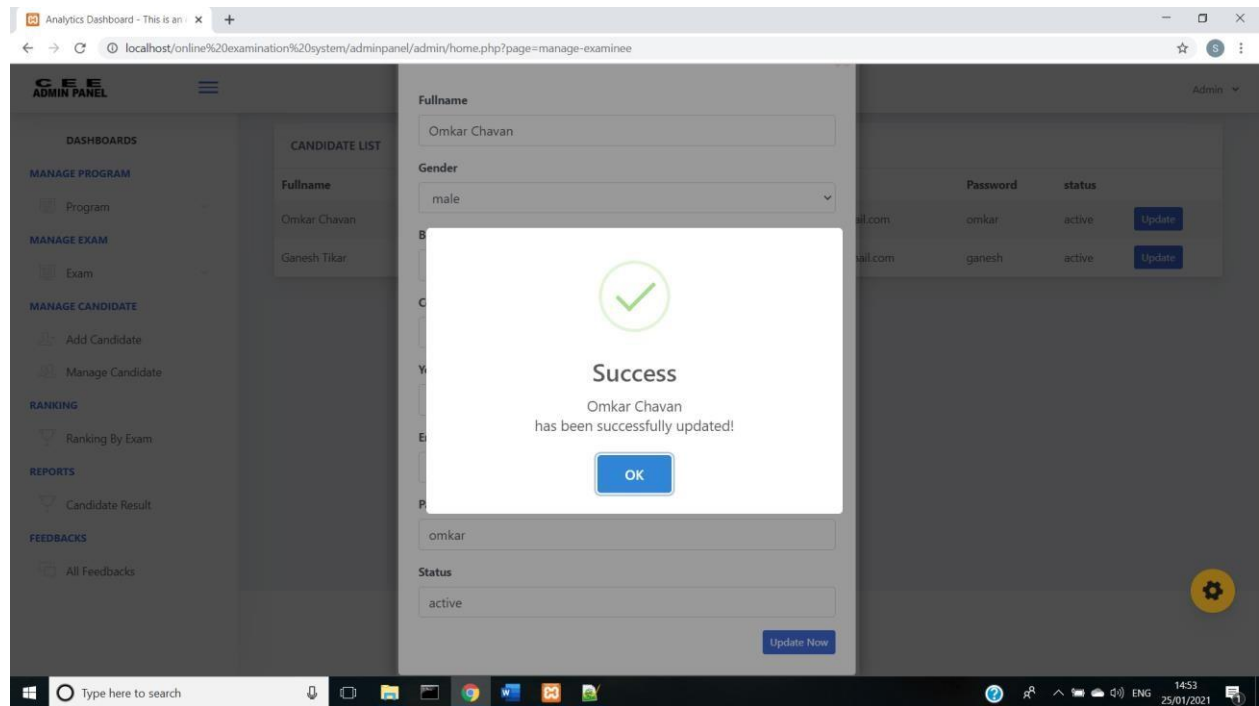
- **No redundancy:** Resources and testing time are limited in software development process. Thus, it is not beneficial to develop several tests, which have the same intended purpose. Every test should have a distinct purpose.
- **Choose the most appropriate test:** There can be different tests that have the same intent but due to certain limitations such as time and resource constraint, only few of them are used. In such a case, the tests, which are likely to find more number of errors, should be considered.
- **Moderate:** A test is considered good if it is neither too simple, nor too complex. Many tests can be combined to form one test case. However, this can increase the complexity and leave many errors undetected. Hence, all tests should be performed separately.

TEST CASES:

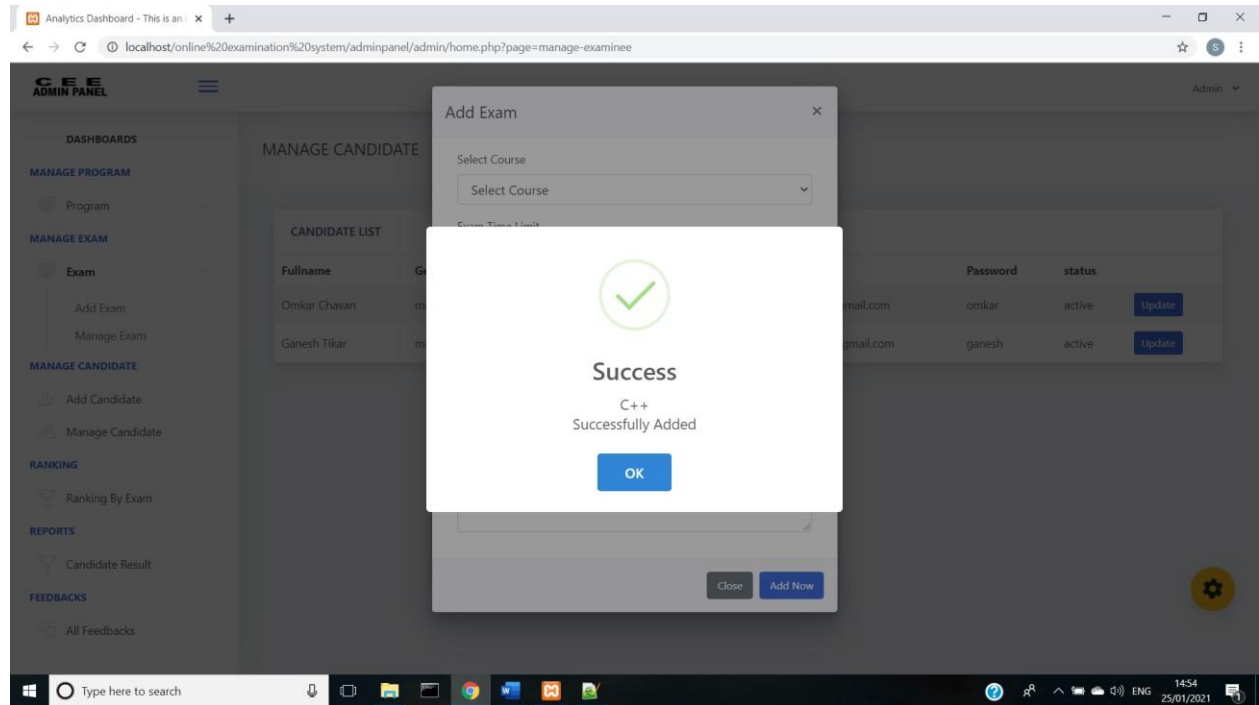
When user/admin hits wrong username or password:



When Admin updates a candidate's details successfully:



When Admin adds an exam successfully:



LIMITATIONS & DRAWBACKS

LIMITATIONS:

- Camera and mic are unavailable in our project.
- In case questions or answers need to be in graphics, current System has no provision.
- Student only can see their result. Top score is not displayed

DRAWBACKS:

No matter if the system is available to you online and all the opportunities are given to you, there still will always be something which will not be according to someone else's need. Some of the drawbacks of the system are as follows:

- Cannot accommodate all exam modes
- Susceptible to fraud

PROPOSED ENHANCEMENTS

For future enhancements:

- Provide a Camera and Mic to the system
- Can accommodate descriptive exam

CONCLUSIONS

There are merits and demerits of an online examination system, as mentioned above.

While technology continues to simplify processes for educational institutions, educationists and students, it has limitations. However, choosing the right online examination platform can help you avert such drawbacks.

An easy-to-use, robust, secure examination platform with all the latest AI-based anti-cheating measures enables you to get credible results quicker.

BIBLIOGRAPHY

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ANNEXURE(WEEKLY REPORT)

Week 1: Start date and End Date : 16th November- 23rd November

Project Title: Online Exam Portal

Team detail

Roll No	Name
209	Omkar Chavan
231	Kiran Labhade
252	Ganesh Tikar

- Plan for the week (Last Week)
We planned on deciding the overall flow of the project. How our interface should look. We also planned to research about all the other online exam websites that are available on the internet.
- Outcome of the week
We have a clear idea of how our project will be working. We have started working on the front end of our website.
We are done with two diagrams that are activity diagram and class diagram.
- Skill Gained
We now have a definite idea of what functions our project will perform
Basic work flow is decided.
- Major Challenges
We faced problems while deciding looks of website our project as there was difference of opinions.
- Plan for the Next week
The majority of our plan for the next week consists of completing front end of our website and start the backend functions using php simultaneously

Week 2 : Start date and End Date : 25th November-1st December

Project Title: Online Exam Portal

Team detail

Roll No	Name
209	Omkar Chavan
231	Kiran Labhade
252	Ganesh Tikar

- Plan for the week (Last Week)

To focus on website's first page
Changes in diagram as we discussed last week

- Outcome of the week

Frontend development is started but screen are not ready to show
Database development is also started
Changes in Diagram are done.

- Skill Gained

This is our first time for developing java website so we are doing everything is new for us all
Database designing.

- Major Challenges

As we decide last week that we will work on first page of our website that is login page but in searching of unique idea we spend our so much time and this time we were so confused and as a result we are still facing issues to conclude our first page

- Plan for the Next week

Front-end Development
Login Screen

Database designing

Week 3 : Start date and End Date : 1stDecember- 8th December

Project Title: Online Exam Portal

Team detail

Roll No	Name
209	Omkar Chavan
231	Kiran Labhade
252	Ganesh Tikar

- Plan for the week (Last Week)

We planned on deciding the overall flow of the project. How our interface should look. We also planned to research about all the other online exam websites that are available on the internet.

- Outcome of the week

Activity – 1. Teacher 2. Student 3.Admin
Changes are done as per instructions
Database Tables are created
LogIn Page Done

- Skill Gained
We have gained the skill of designing the web pages.
- Major Challenges

We faced problems while deciding looks of website our project as there was difference of opinions.

- Plan for the Next week

The majority of our plan for the next week consists of completing front end of our website and start the backend functions using java simultaneously

Week 4 : Start date and End Date : 9thDecember- 14th December

Project Title: Online Exam Portal

Team detail

Roll No	Name
209	Omkar Chavan
231	Kiran Labhade
252	Ganesh Tikar

- Plan for the week (Last Week)

We planned last week to complete frontend designing of our project and starts with backend in java.

- Outcome of the week

We are still working on frontend screens.

- Skill Gained –

Now, we have best hands on the uml diagram tools for designing purpose and database designing

Also, it is practice to do our frontend designing part.

- Major Challenges -

We faced problems while adding the answers to questions to the database as we were entering wrong location for the uploaded data.

- Plan for the Next week -

The majority of our plan for the next week consists of completing front end of our website and start the backend functions using java simultaneously

Week 5 : Start date and End Date : 14th Decmber- 22nd December

Project Title: Online Exam Portal

Team detail

Roll No	Name
209	Omkar Chavan
231	Kiran Labhade
252	Ganesh Tikar

- Plan for the week (Last Week)

As our database was not connected to the project that we connect it to the project.

Documentation was expected.

- Outcome of the week

Documentation if half done.

- Skill Gained –

MYSQL database connection techniques

For documentation we collect information from various sites

- Major Challenges -

We were not having idea how to connect database to the project

So tried to learn those.

- Plan for the Next week -

We will be completing our whole documentation

Week 6 : Start date and End Date : 22nd December - 29th December

Project Title: Online Exam Portal

Team detail

Roll No	Name
209	Omkar Chavan
231	Kiran Labhade
252	Ganesh Tikar

- Plan for the week (Last Week)

As our database was not connected to the project that we connect it to the project and we are unable to give a demo of our project.

Documentation was expected.

- Outcome of the week

We are done with frontend, designing of backend and database connectivity part._

- Skill Gained –

We have gained the knowledge of validation of the data .

We checked test cases of the project.

- Major Challenges -

We checked our complete website once again if we might forget something.

Doing things from beginning was a bit hard.

- Plan for the Next week -

Finish the project and documentation

