



PARSHVANATH CHARITABLE TRUST'S  
**A.P. Shah Institute of Technology**  
Thane, 400615

**Academic Year: 2022-23**  
**Department of Computer Engineering**

## **CSL605 SKILL BASED LAB COURSE: CLOUD COMPUTING**

### **Mini Project Report**

- **Title of Project** :Online Exam Portal
- **Year and Semester** :T.E. (Sem VI)
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# Chapter 1

## Introduction

Today ,Online Examination System is considered a fast developing examination method because of its accuracy and speed. It is also needed less manpower to handle the examination. It is used to conduct assessment test, aptitude test, psychometric test, personality test, entrance exam and campus exams. Organizations can also easily monitor the progress of the student that they give through an examination. As a result of this, the result is calculated in less time. It also helps diminishing the need for paper. Online examination project in PHP is very useful to learn it, According to today's requirement Online examination system is significantly important to the educational institution to prepare the exams, saving the time and effort that is required to check the exam papers and to prepare the results reports. examination system is one of the method of taking exams which is doesn't require any kind of a piece of paper or a pen.It is the fast growing method to take exams over online.Speed and accuracy is the reason behind the famous of this method because speed and accuracy is the backbone of this system. Many researchers have already researched about online examination system and we have developed a online examination system by refereeing the same and selecting the best ideas about this.

# Chapter 2

## **Problem Definition**

Since the traditional have many drawbacks such as time consuming, Difficulty of analysing the test manually, More observers are required to take exam of many students, Results are not accurate since calculations is done manually, The chance of losing exam's result is higher in current systems, Checking of result is time consuming since it done manually, Limitation of no of student can give examination at a time. with the development of information technology and use it in an orderly and

properly helps to overcome the existing error in the manual system . Online examination system saves the exams information in a database, and this make it an easier way to give exam teachers can add theirs exams rules , and student can give exam in a totally automated system

# Chapter 3

## Objective and Scope

Online Examination System is a complete end-to-end solution to cover all aspects of the online examination system.

The basic objective of developing this project is:

1. Provides complete website solution, including member registration, giving tests, storing of results. Complete web based administration.
2. The online examination system can automatically add the marks allocated in each question to determine the total mark for the test.
3. Additional to the already available questions in the Question Bank, the Administrator has the ability to add more questions as per the subject.
4. The Administrator also has the ability to modify the Userdefined Questions and not the already Available Questions in the Question Bank.
5. Complete web based system no installation required to run the application in client system.
6. In our project coordinator can take the test of student, insert the question set, and provide the login for student after student registration.
7. Student and member result must be saved and can be retrieving later on.
8. Question must provide answer type like multiple right answer selection and one right answer selection. Test screen must provide options accordingly.
9. System must able to calculate the examination marks and display the result quickly after completing the exam; student must view the correct answer of the question after completing the test.
10. System has powerful logical access management in place, each user must be identified by user email id and password authentication policy is applied to secure the examination system.

# Chapter 4

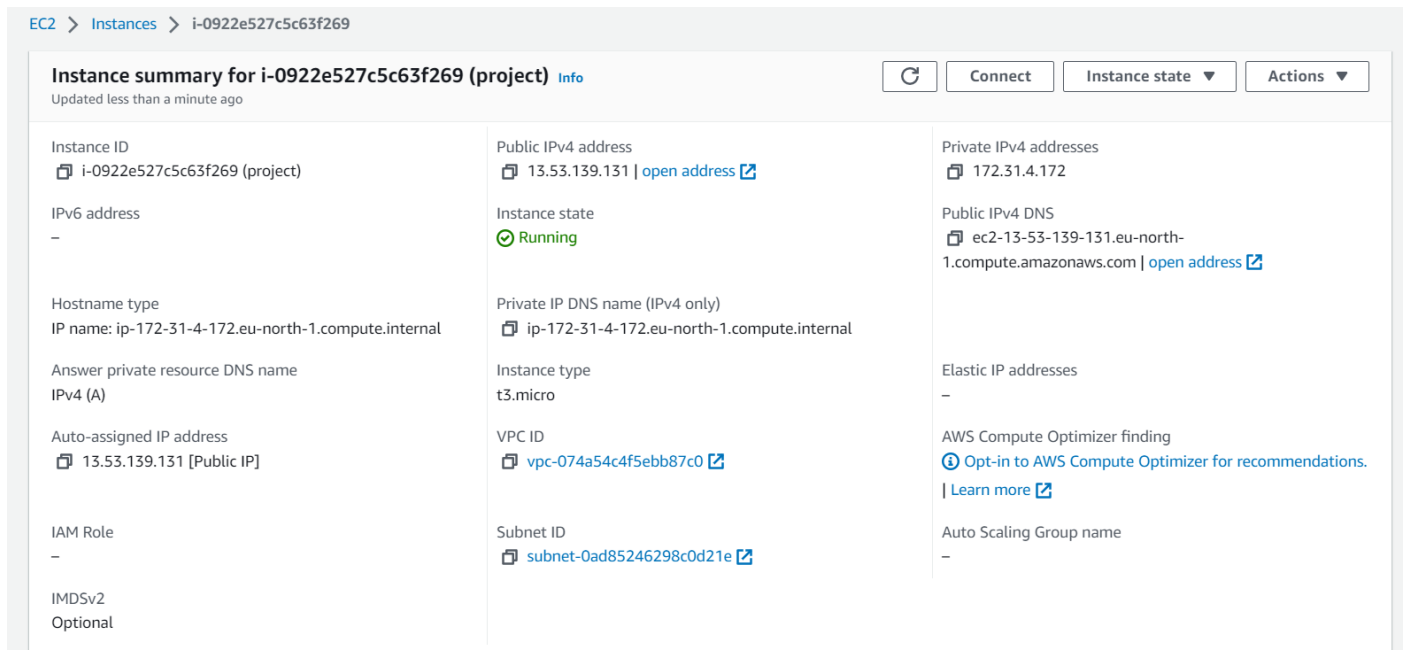
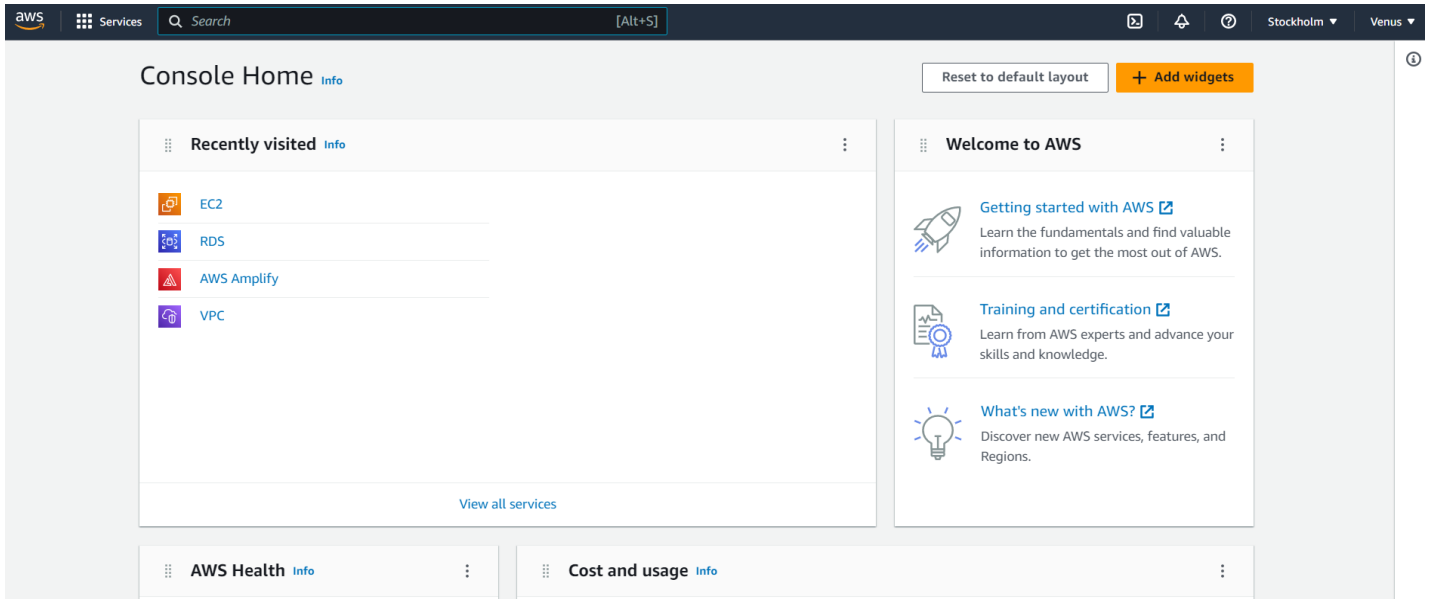
## Description

- Cloud Services used in this project are as follows:

1. AWS EC2: Amazon Elastic Compute Cloud (EC2) is a web service that provides scalable computing capacity in the cloud. It is designed to make web-scale cloud computing easier for developers. EC2 allows you to rent virtual computers, also known as instances, on which you can run your own applications.
2. Amazon Relational Database Service (RDS) is a web service provided by Amazon Web Services (AWS) that makes it easy to set up, operate, and scale a relational database in the cloud. RDS provides an easy-to-use interface to create, manage, and scale a relational database in the cloud.
3. AWS IAM Policies and Roles: AWS Identity and Access Management (IAM) is a service that enables you to manage access to AWS services and resources securely. IAM allows you to create policies that define permissions for users, groups, and roles.

# Chapter 5

## Implementation



Test Your Skill

Signin

Enter your name

Select Gender

Enter your college name

Enter your email-id

Enter your mobile number

Enter your password

Conform Password

sign up

About us
Admin Login
Developers

Activate Windows  
Go to Settings to activate Windows.

Test Your Skill

Hello, Saurabh
Signout

Netcamp
Home
History
Institutes
Ranking
Results
Signout

Enter tag
Search

Question 1 ::  
Which of the following cannot affect the average lifetime of a radical in a photo-initiated polymerization?

Orate of polymerization,  $R_p$

Ofrequency of light radiations

OIntensity of light radiations

Onone of the mentioned

Submit

About us
Admin Login
Developers
Feedback

Activate Windows

Result	
Total Questions	5
right Answer	1
Wrong Answer	4
Score	20
Overall Score	20



## Connect to instance [Info](#)

Connect to your instance i-0922e527c5c63f269 (project) using any of these options

### EC2 Instance Connect

### Session Manager

### SSH client

### EC2 serial console

Instance ID

i-0922e527c5c63f269 (project)

Public IP address

13.53.139.131

User name

Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ubuntu.

**Note:** In most cases, the default user name, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel

Connect

```
mysql> use test;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
```

Database changed

```
mysql> show tables;
```

```
+-----+
| Tables_in_test |
+-----+
| admin          |
| answer         |
| city           |
| course_offered |
| feedback       |
| history        |
| institutes     |
| options        |
| questions      |
| quiz           |
| rank           |
| score          |
| user           |
+-----+
```

13 rows in set (0.00 sec)

```
mysql> select * from user ;
```

```
+-----+-----+-----+-----+-----+-----+
| name   | gender | college                                | email                | mob                | password                |
+-----+-----+-----+-----+-----+-----+
| Dhruv  | M      | Ap Shah                               | hi@gmail.com         | 3693693691        | d41d8cd98f00b204e9800998ecf8427e |
| Sir    | M      | college                               | sir@gmail.com        | 3692581471        | a296b2d3a776fabab2c94355a71283e6 |
| Sir    | M      | Ap Shah Institute of technology       | Sirr@gmail.com       | 7418529630        | e807f1fcf82d132f9bb018ca6738a19f |
| Eeee   | M      | ddd                                    | ssss@gmail.com       | 1234567890        | bae5e3208a3c700e3db642b6631e95b9 |
| Venus Bais | F      | apshah                                | venusbais95@gmail.com | 9321040538        | e10adc3949ba59abbe56e057f20f883e |
+-----+-----+-----+-----+-----+-----+
```

6 rows in set (0.00 sec)

```
mysql>
```

# Chapter 6

## Learning Outcome

- The usage of AWS EC2, IAM policies and rules project provides several learning outcomes, including:
  1. Cloud Computing: The project provides an opportunity to learn about cloud computing and the benefits of using cloud storage systems such as AWS EC2. This experience can enhance the understanding of how to leverage cloud computing resources to build scalable and secure applications.
  2. Access Management: The use of AWS IAM policies and rules provides insight into how to manage access to AWS resources and how to create secure and scalable applications. Learning about IAM policies and rules can help in creating an access control strategy for different applications and services.
  3. RDS : When running an application on Amazon Elastic Compute Cloud (EC2), you can use RDS to host your database, which enables you to separate the application and database layers, which can improve performance and scalability, and reduce the risk of data loss..
  4. Online Examination System is significantly superior among the other exams. We have come to result that the problems can be solved by introducing new security systems using biometrics, we can identify the student's true identity by analyzing digital signature or by finger print mechanism and also by providing web cameras in the examination hall. Although web cameras Sometimes gets failed, if supposed a candidate is giving exam and facing downwards in such case Iris recognition and face recognition must be used. We conclude that no mechanism is ideal. Each mechanism has some restriction on its own. Key concepts are to develop paperless environment and to convert all the documentation in digital form.
- Overall, the project provides a comprehensive learning experience in cloud computing, access management, and RDS It can help in developing skills and knowledge that are essential for building secure, scalable, and efficient applications.