

## Assignment No 4

*Advanced Database System Lab(5CS372)*

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Batch:T1

### Problem Statement:

**Design and implement a system for managing online multiple-choice tests.**

- **React JS:**

- React is a popular JavaScript library used for web development.
- React.js or ReactJS or React are different ways to represent ReactJS.
- Today's many largescale companies (Netflix, Instagram, to name a few) also use React JS.
- React.js is a front-end JavaScript framework developed by Facebook. To build composable user interfaces predictably and efficiently using declarative code, we use React.
- It's an open-source and component-based framework responsible for creating the application's view layer.
- ReactJs follows the Model View Controller(MVC) architecture, and the view layer is accountable for handling mobile and web apps.
- React is famous for building single-page applications and mobile apps.

- **MySQL:**

- MySQL, the most popular Open Source SQL database management system, is developed, distributed, and supported by Oracle Corporation.
- Node. Js and MySQL are some of the necessary binding needed for any web application.
- MySQL is one of the most popular open-source databases in the world and efficient as well.
- Almost every popular programming language like Java and PHP provides drivers to access and perform operations with MySQL.

## Landing Page / HomePage:



## Registration Page:

### 1. Registering as Student:

This screenshot shows the registration form for a student. The form is titled 'Register' and is set against a green background. It includes input fields for 'E-mail' (containing 'student1'), 'Password' (masked with dots), and 'Select Type' (a dropdown menu with 'student' selected). A blue 'Login' button is positioned at the bottom of the form. The header of the page is green and contains the text 'ONLINE TEST PLATFORM' and navigation links for 'student login', 'Faculty login', and 'Register'.

### 2. Registering as Faculty:

This screenshot shows the registration form for a faculty member. The form is titled 'Register' and is set against a green background. It includes input fields for 'E-mail' (containing 'faculty1'), 'Password' (masked with dots), and 'Select Type' (a dropdown menu with 'faculty' selected). A blue 'Login' button is positioned at the bottom of the form. The header of the page is green and contains the text 'ONLINE TEST PLATFORM' and navigation links for 'student login', 'Faculty login', and 'Register'.

## Login In as Faculty:

The screenshot shows the 'Login As Faculty' interface on a green-themed website. At the top, a green header bar contains the text 'ONLINE TEST PLATFORM' on the left and three links: 'student login', 'Faculty login', and 'Register' on the right. Below the header, a white login form is centered. The form has a title 'Login As Faculty' in blue. It contains two input fields: 'E-mail' with the text 'faculty1' and 'Password' with masked characters. A blue 'Login' button is at the bottom of the form.

## Adding an Quiz:

The screenshot shows the 'Add New Quiz' interface. The green header bar now includes 'Add New Quiz', 'Add New Question', and 'Update Question' links, along with a 'Faculty1' dropdown menu. The 'Add New Quiz' form is a dark grey box with three input fields: 'Cloud Computing', 'Quiz on cloud computing's Module1', and a masked password field. A blue 'ADD QUIZ' button is at the bottom of the form.

## Quiz Added Successfully:

This screenshot shows the 'Add New Quiz' form with a success message overlay. The message box is dark grey with the text 'localhost:3000 says Quiz Created' and an 'OK' button. The form fields and the 'ADD QUIZ' button are still visible in the background.

## Adding Question in a Quiz:

The screenshot shows the 'Enter Question' form in the 'ONLINE TEST PLATFORM'. The form has a title 'Enter Question' and a question text area containing 'Which of the following is an example of a PaaS cloud service?'. Below the question text are five radio button options: 'Heroku', 'AWS Elastic Beanstalk', 'Windows Azure', 'All of the above', and '4'. At the bottom of the form is a blue 'ADD' button. The top navigation bar includes links for 'Add New Quiz', 'Add New Question', 'Update Question', and a 'faculty!' dropdown menu.

ONLINE TEST PLATFORM

Add New Quiz Add New Question Update Question faculty!

Enter Question

Which of the following is an example of a PaaS cloud service?

☐ Heroku

☐ AWS Elastic Beanstalk

☐ Windows Azure

☐ All of the above

☐ 4

Quiz on cloud...

ADD

## Login as Student:

The screenshot shows the 'Login As Student' form in the 'ONLINE TEST PLATFORM'. The form has a title 'Login As Student' and two input fields: 'E-mail' with the value 'student1' and 'Password' with masked characters. Below the password field is a blue 'Login' button. The top navigation bar includes links for 'student login', 'Faculty login', and 'Register'.

ONLINE TEST PLATFORM

student login Faculty login Register

Login As Student

E-mail

student1

Password

\*\*\*\*\*

Login

## Home Page for Student:



## Online Quiz Platform:



## Conclusion:

From this Assignment I learnt how to manage User levels at different role. How to give authentication and implementation of Quiz using React js and MySQL.