Project Review-III

# Open Source Programming ITE1008\_B1\_PROJECT\_14

# Online quiz management system

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### **Abstract:**

### "To exist is to adapt"

Given the current covid-19 situation where only online classes are being conducted, the evaluation of students by traditional tests are impossible.

At the same time we cannot risk by not conducting any tests to evaluate the students. So there arises a need to go for other alternatives.

One such alternative is the **online quiz portal system**.

Online quiz portals helps in easy evaluation of students performance and also easy conduction and correction by teaching faculties solving the above mentioned problem.

Here in this project on Online Quiz Management System we will be creating a web page for conducting the examination online and for the students to take part in the same.



### Introduction:

Our team worked together in order to design a simple yet efficient web page for conducting online quizzes.

We have used the following languages and tools to effectively design our project:

The **Front end** of our project was developed with the help of **HTML**, **CSS**, **PHP**, and **Ajax**.

**Backend** of our project was developed with the help of **MySQL** (Database)

We used **Visual Studio Code Editor** as our **editor** to edit and manage the files effectively.

And we used **Apache** as our **web server**.

Our project contains an admin side and a user side.

The administrators, instructors, students who are attending the online quiz can communicate with the system through this project, thus facilitating effective implementation and monitoring of various activities of online quizzes like conducting the quiz as per the schedule and delivering the result to students without much hassle.

The purpose of conducting the online quiz is for a simple, uniform, easy and speedy assessment of student's performance in examinations.

### **Problem statement:**

As mentioned in the abstract most of the existing system are manual in which users are maintaining books to store the information like student details, organizer details, quiz schedule and results of the students who attempted the quiz as per the schedule. And it is very difficult to do this as it takes a lot of man-power and time too.



Hence it is much smarter to use the online quiz portal.

The online method needs less manpower to execute the examination which makes it much better than the offline method.



Before diving into the real topic let us see some more <u>advantages of</u> conducting online quizzes:

#### 1. Conduct quizzes effortlessly:

Computer-based tests as a method of conducting an assessment enable users to manage the test easily. The functionalities of an exam software such as user-friendly dashboard, multiple languages, support for multiple question types and formats, detailed reporting, automatic instant results help in smooth conduction.

#### 2. Reduces exam anxiety among students:

The flexibility associated with computer-based tests reduces exam anxiety among test takers.

#### 3. Promotes social interaction between the test takers and experts:

An online environment promotes exam preparation with experts or peers as they can review the course content together.it lays the real foundation of academic teaching as it facilitates discussion with teachers or other students.

### 4. Prevents cheating:

Cheating amongst the test-takers during the quiz is one of the major drawbacks of pen paper —based assessment. Online quizzes on the other hand manages to avoid the possibilities of secretly using unfair means to get the right answers.

#### 5. Safe and secure data:

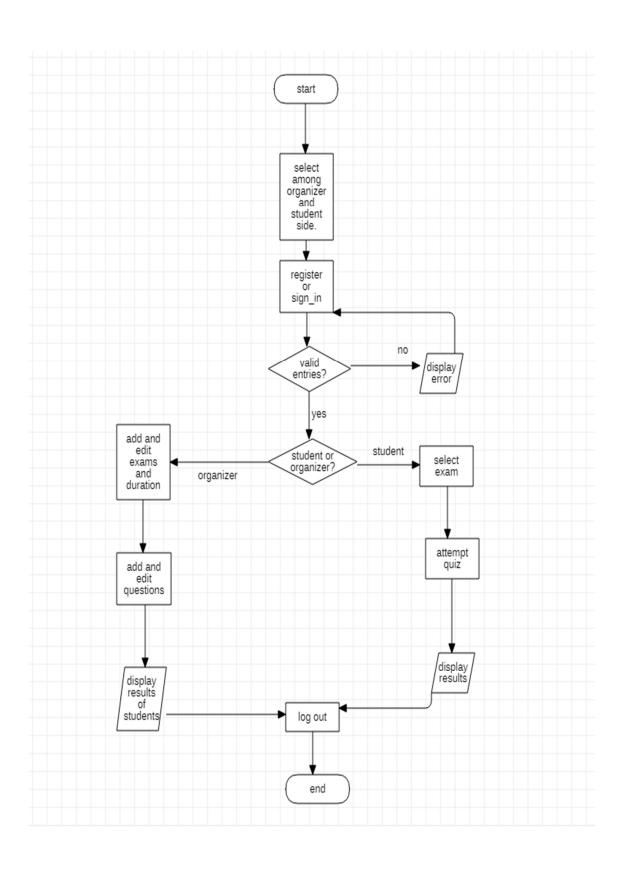
Various tools offered by the online software have enabled the assessment conducting agencies to manage the crucial data related to quiz questions and test-takers safety.

#### 6. Reduces administrative burden:

Organizing and running the exams online not only reduces an organizations administrative burden but also saves cost and time. Online quizzes with its objective to make evaluation massive but simple, cost-effective and faster has replaced the pen paper-based assessment.

Most of the institutions and agencies have already started to use computer-based tests to instill their lost faith in the method of conducting an evaluation.

# Flow chart:



### **Modules:**

### Module (organizer side):

### Registration and signing up:

- If the organizer doesn't have an account already he/she should register themselves. Else they can log themselves in into the website.

#### Add and Edit exams:

-Once the organizer logs himself/herself in they can add a new exam and set its duration or they can edit the name and duration of an existing exam.

### • Add and Edit questions:

-Once the organizer selects the exam in which he/she wants to add and edit questions he/she will be able to add new questions (text as well as images) or edit the existing questions.

### • Results:

-once the students are done with their tests the organizer will be able to see all their results along with their username in his account.

### Logging out:

-Once the organizer notes down the results they can log themselves out of the web-page.

### **Module** (student side):

### Registration and signing up:

- If the student doesn't have an account already he/she should register themselves. Else they can log themselves in into the website.

### • Starting the test:

- Once the student enters a valid user id and password he/she can take the test in the scheduled time.

### Answering phase:

- Once they start the test they can start answering the questions. The questions will be displayed one by one on answering.

### Submission:

- If the student is done with his/her test then he/she can finish their quiz or if they failed to complete the quiz within the given time limit the page will auto save the answers.

### Results:

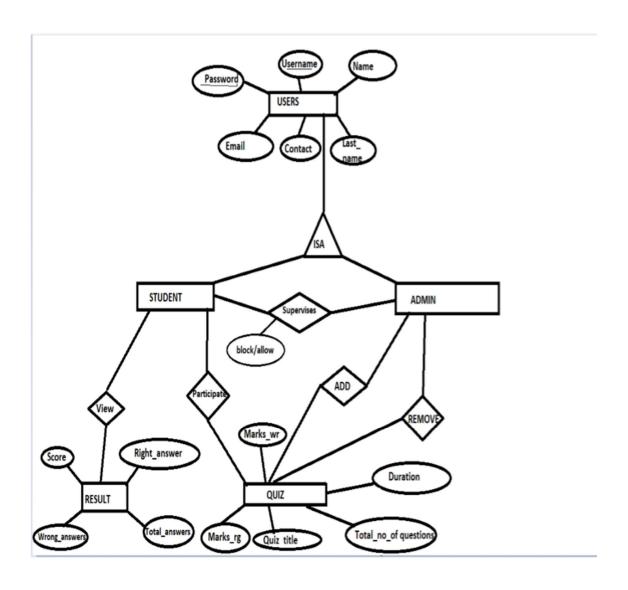
- Once the quiz is done the web page will automatically display the results of the test-takers.

### • Logging out:

- Once the student get their results they can log themselves out of the web-page.

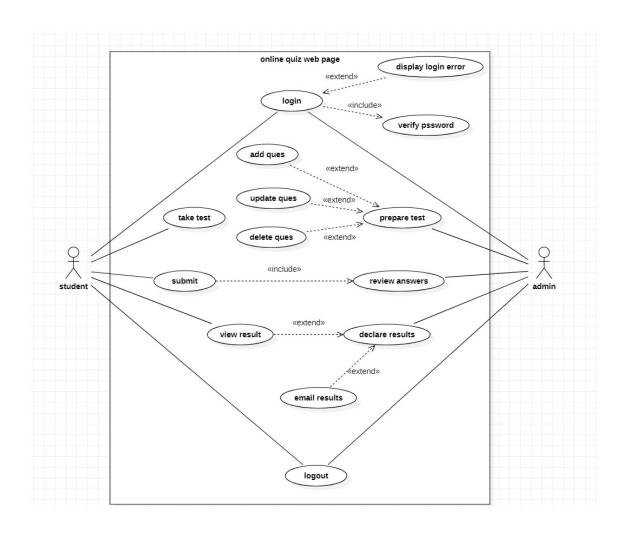
# **ER diagram:**

ER diagram is used to model the logical view of the system from data perspective.



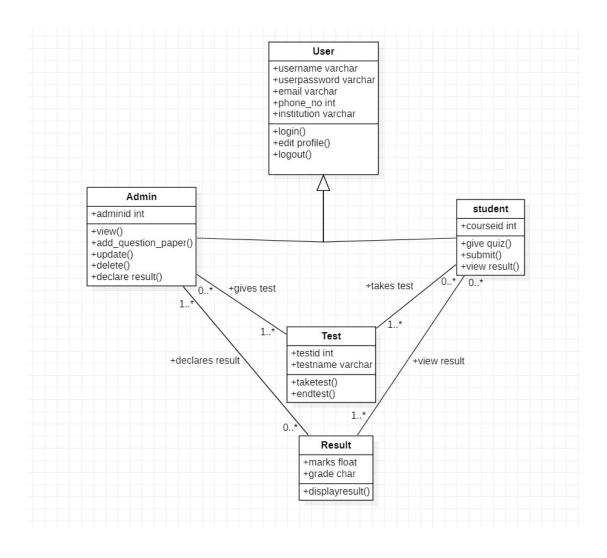
# Use case diagram:

A use case diagram at its simplest is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved.

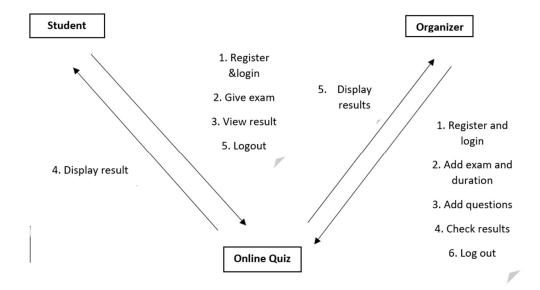


# **Class diagram:**

A class diagram describes the structure of a system by showing the system's classes, their attributes, operations, and the relationships among objects.

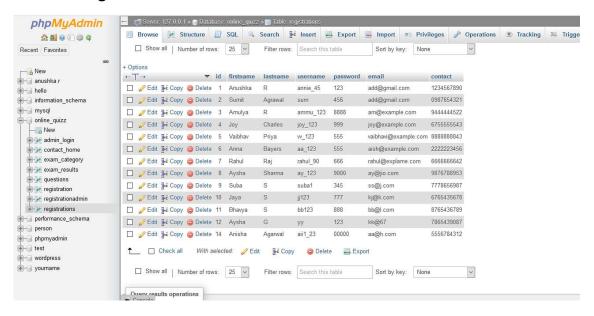


### Workflow:

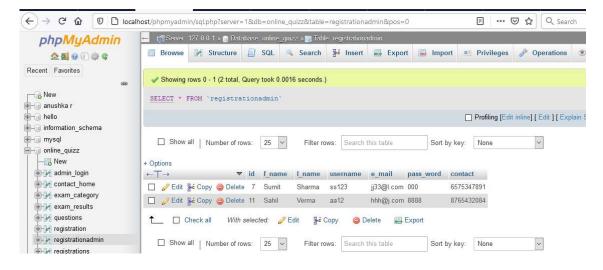


### **Database designs:**

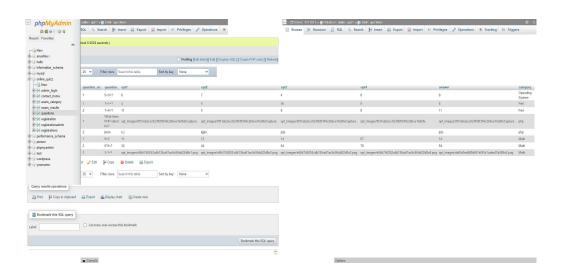
#### **Table for registrations:**



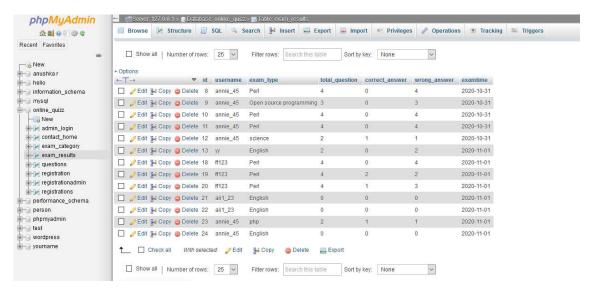
### **Table for admin registrations:**



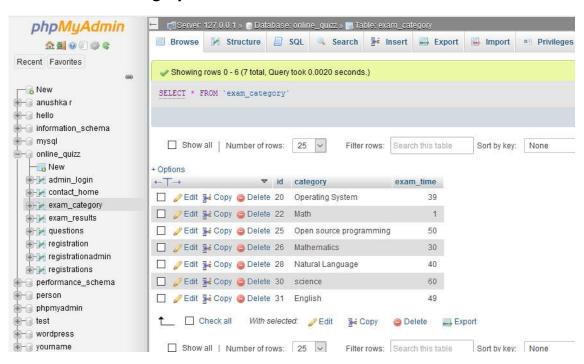
### **Table for questions:**



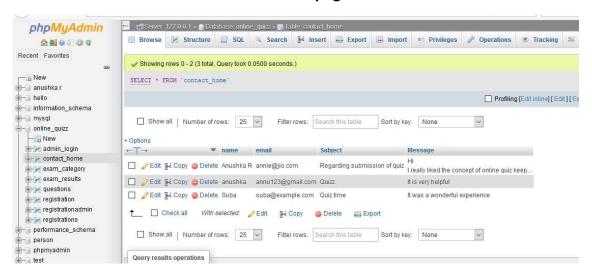
#### Table for exam results:



#### Table for exam category:



#### Table for contact us information in home page:



## **References:**

- https://www.w3schools.com/
- <a href="https://en.wikipedia.org/">https://en.wikipedia.org/</a>
- https://www.ieee.org/

### **Conclusion:**

To conclude, using our web page an admin can log himself/herself in if he/she already has an account or they can register themselves for the first time and log themselves in and can add and edit exams. Then he/she can add and edit questions to a particular exam by selecting it.

Apart from adding exams and its questions the admin can also set the duration of the exam after which the exam will auto save itself.

Similarly in the user side the user can log himself/herself in if he/she already has an account or they can register themselves for the first time and log themselves in.

Once they log in they will be able to see all the exams available and if they select the subject in which they want to attend the quiz then the timer will start immediately and the questions will be displayed.

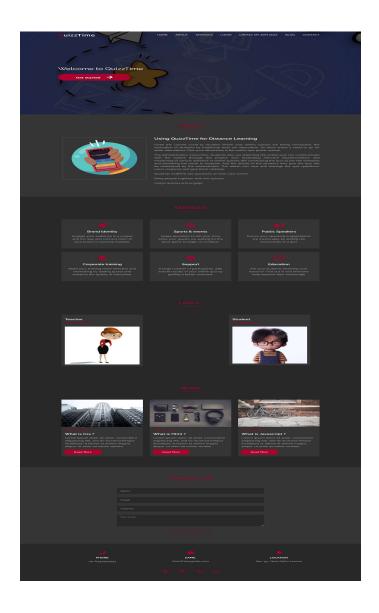
Once they are done with the test they can submit it manually or if the time runs out the page will auto save itself.

Once a student submits his answer results will be displayed and similarly the admin will be able to see all the results of the students too.

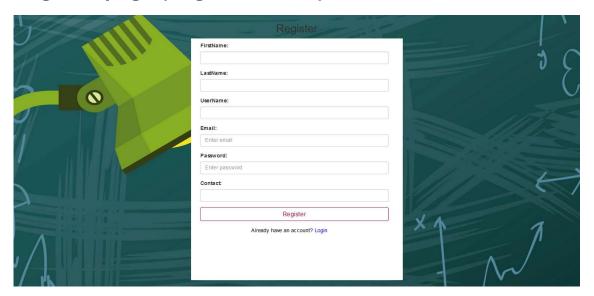
That conclude the major functions of our web page which facilitates easy conduction of quizzes online.

# **Snapshots:**

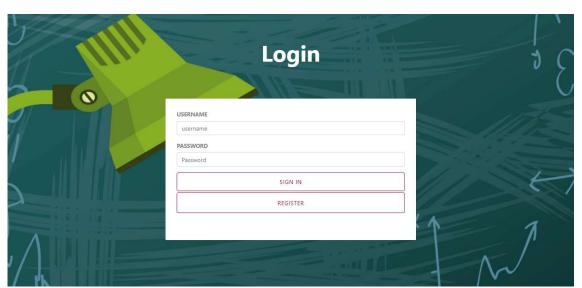
# Home page:



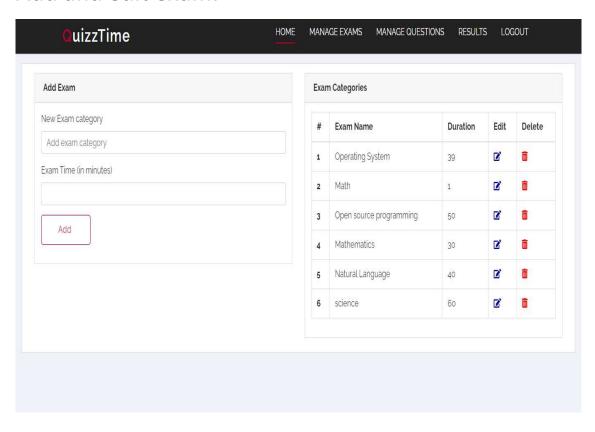
# Register page (Organizer side):

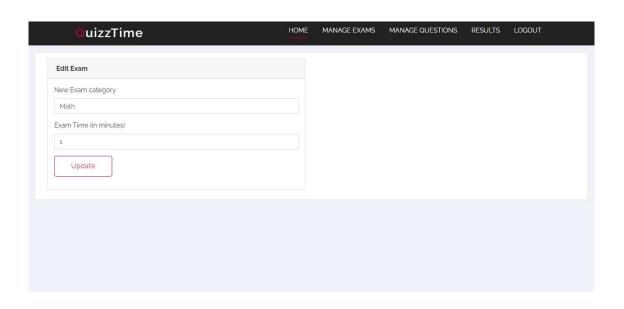


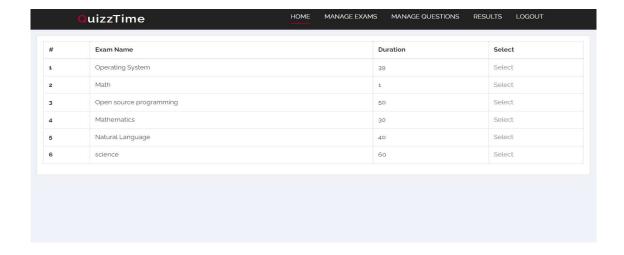
# Login page (Organizer side):



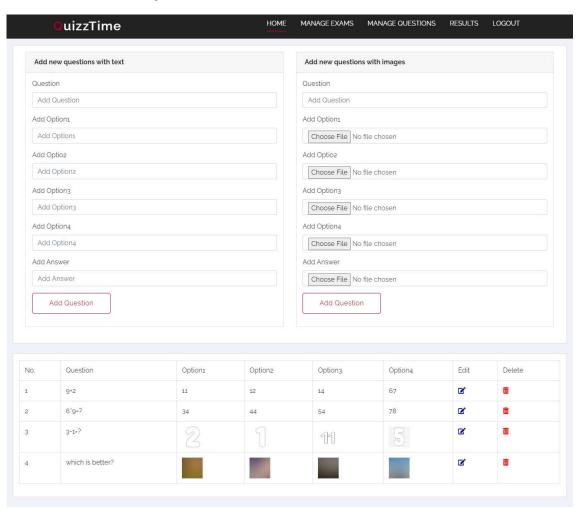
### Add and edit exam:



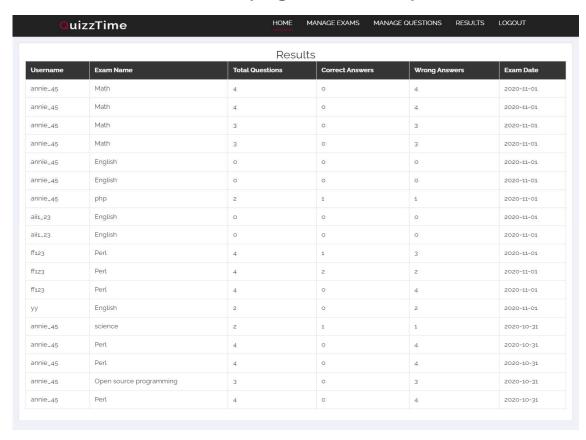




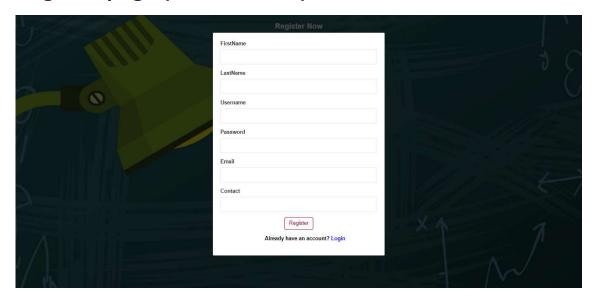
# Add and edit questions:



## Results of all students (organizers side):



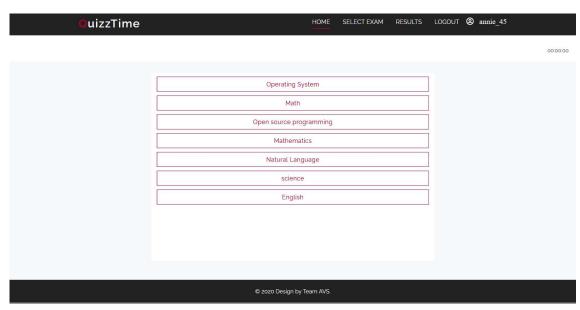
## Register page (Student side):



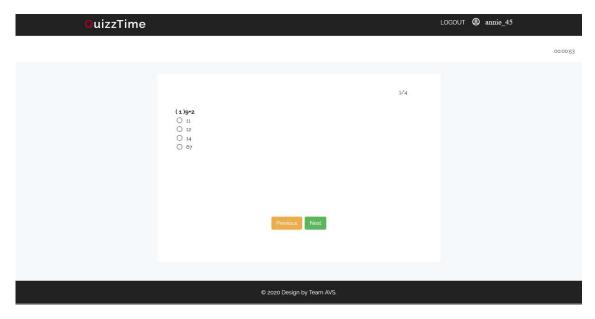
# Login page (Organizer side):

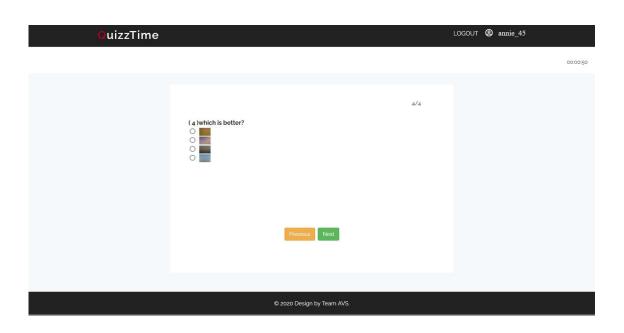


# Display of available tests (student's side):

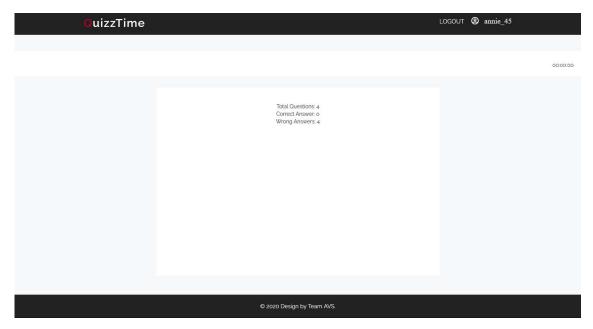


# **Answering phase:**

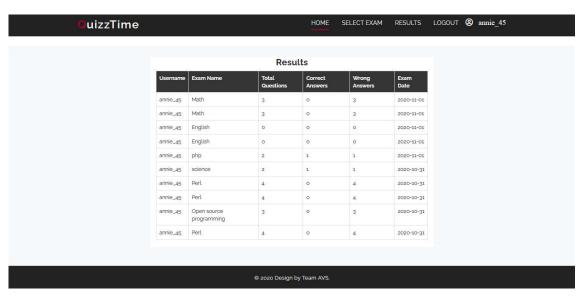




# Display of results (student side):



## Display of results (Organizer side):



# Source code for home page:

```
<?php
include "connection.php";
<!DOCTYPE html>
<html>
<head>
 <title>QuizzTime</title>
  <meta name="viewport" content="width=device-width, initial-scale=1">
 <link rel="stylesheet" href="styles1.css"/>
 <script src="https://kit.fontawesome.com/a076d05399.js"></script>
</head>
<body>
  <!-- Start Header -->
  <header>
       <div class="container">
              <div class="logo">
                    <a href=""><span>Q</span>uizzTime</a>
              </div>
              <div class="trigger-main">
                   <a href="javascript:void(0);" class="ham-burger">
                         <span></span>
                         <span></span>
                   </a>
              </div>
              <div class="navbar">
                    <a href="#home" class="active">Home</a>
                          <a href="#about">About</a>
                              <a href="#services">Services</a>
```

```
<a href="#port">Login</a>
                          <a href="#port">Create or join quiz</a>
                         <!----<li><a href="#team">Team</a>-->
                          <a href="#blog">Blog</a>
                        <a href="#contact">Contact</a>
                    </div>
       </div>
  </header>
  <!-- End Header -->
  <!-- Start Home -->
   <section class="home" id="home">
      <div class="container">
               <div class="home-text">
                       <h1>Welcome to QuizzTime</h1>
                                 <!--<h3>Frontend Developer</h3>-->
                              <a href="#port"> <button class="started"</pre>
style="width:320px;height: 60px;border-radius: 39px;background-color:
#ad022d;border-color:#ad022d ;font-size: larger; color:white;font-weight: bold
; text-align: center; text-shadow: 2px 2px 4px #000000; ">Get started
    <i class="fas fa-arrow-right fa-10x" style="color:white;</pre>
font-size: 30px;text-shadow:2px 2px 4px #000000;"></i></button></a>
     <!---- <marquee direction="left" behavior="slide" width="1300px">
      </div>
      </div>
   </section>
  <!-- End Home -->
  <!-- Start About -->
   <section class="about" id="about">
      <div class="container">
             <h2 class="title">About</h2>
              <div class="about-content">
```

```
<div class="img">
                 <img src="images/person_holding_phone.png" alt="me">
                   </div>
                   <div class="description">
                       <!-- <h4>Welcome to QuizzTime</h4>-->
                       <h5>Using QuizzTime for Distance Learning</h5>
Given the current covid-19 situation where
only online classes are being conducted, the evaluation of students by
traditional tests are impossible. So there arises a need to go for other
alternatives. One such alternative is the online quiz portal system. 
The administrators, instructors, students who
are attending the online quiz can communicate with the system through this
project, thus facilitating effective implementation and monitoring of various
Activities of online quizzes like conducting the quiz as per the schedule and
delivering the result to students. And the details of the students who give
the quiz will be maintained by the administrator. The admin can view and
manage the quiz questions, user's response and give them rankings.
            Students ALWAYS see questions on their own screen.
           Bring people together with live quizzes
                 Assign quizzes and engage 
                   </div>
             </div>
      </div>
   </section>
 <!-- End About -->
 <!-- Start Service -->
   <section class="services" id="services">
      <div class="container">
            <h2 class="title">Services</h2>
            <div class="services-content">
                  <div class="card">
                         <div class="hox">
                               <div class="icon">
                                                 <!---<span class="fa fa-
laptop"></span>-->
```

```
rocket"></span>
                                 </div>
                                 <h3>Brand Identity</h3>
      Engage your audience in a unique and fun way and connect them to
your brand or learning material.
                          </div>
                   </div>
                   <div class="card">
                          <div class="box">
                                 <div class="icon">
                                      <span class="fas fa-futbol"></span>
                                 </div>
                                 <h3>Sports & events</h3>
                                 Image questions to tell your story while
your guests are waiting for the sport game to begin or continue.
                          </div>
                   </div>
                   <div class="card">
                          <div class="box">
                                 <div class="icon">
                                      <span class="fas fa-bullhorn"></span>
                                 </div>
                                 <h3>Public Speakers</h3>
                                 Ensure your speaking engagements are
memorable by adding the interactivity of a quiz
                                           </div>
                   </div>
                   <div class="card">
                          <div class="box">
                                 <div class="icon">
                                                   <!---- <span class="fas
fa-user-tie"></span>-->
```

<span class="fas fa-</pre>

```
<span class="fas fa-user-</pre>
graduate"></span>
                                 </div>
                                 <h3>Corporate training</h3>
                                 Make your training more effective and
interesting by adding quizes and enhance the quality of education.
                                            </div>
                   </div>
                   <div class="card">
                           <div class="box">
                                 <div class="icon">
                                      <span class="fa fa-support"></span>
                                 </div>
                                 <h3>Support</h3>
                                 A large number of participants, with
instant results of your online quiz by getting a better overview.
                           </div>
                   </div>
                   <div class="card">
                           <div class="box">
                                 <div class="icon">
                                                     <span class="fas fa-</pre>
chalkboard"></span>
                                 </div>
                                 <h3>Education</h3>
                                 Are your students retaining your lessons?
Find out in real time!and help improve their knowledge 
                           </div>
                   </div>
             </div>
      </div>
    </section>
<!-- End Service -->
```

```
<!-- Start choose -->
   <section class="port" id="port">
      <div class="container">
             <h2 class="title">I am a..</h2>
             <div class="port-content">
                    <a href="Admin/index.php"><div class="card" style="margin-</pre>
right: 350px;">
                           <div class="box">
                                  <h3>Teacher</h3>
                                  <h4>Create quiz</h4>
                                  <img src="images/teacher6.PNG" alt="port"/>
                           </div>
                     </div></a>
                    <a href="register.php"> <div class="card">
                           <div class="box">
                                  <h3>Student</h3>
                           <h4>Attend quiz</h4>
                                  <img src="images/student4.jpg" alt="port"/>
                           </div>
                     </div></a>
             </div>
      </div>
    </section>
<!-- Start Blog -->
  <section class="blog" id="blog">
       <div class="container">
               <h2 class="title">Blog</h2>
```

```
<div class="card">
                          <div class="box">
                                <img src="images/css3.png" alt="blog" />
                                <h4>july 04,2019 </h4>
                                <h3>What is Css ?</h3>
                                Lorem ipsum dolor sit amet, consectetur
adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna
aliqua. Ut enim ad minim veniam,
                          <!-- <p><button type="button" class="btn-bg">Read
More</button>-->
                          </div>
                    </div>
                    <div class="card">
                          <div class="box">
                                <img src="images/html.png" alt="blog" />
                                <h4>jun 12,2019 </h4>
                                <h3>What is Html ?</h3>
                                Lorem ipsum dolor sit amet, consectetur
adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna
aliqua. Ut enim ad minim veniam,
                        <!--
                                <button type="button" class="btn-bg">Read
More</button>-->
                          </div>
                    </div>
                    <div class="card">
                          <div class="box">
                                <img src="images/php2.jpg" alt="blog" />
                                <h4>july 16,2019 </h4>
                                <h3>What is Php ?</h3>
                                Lorem ipsum dolor sit amet, consectetur
adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna
aliqua. Ut enim ad minim veniam,
                              <!-- <p><button type="button" class="btn-
bg">Read More</button>-->
                          </div>
```

<div class="blog-content">

```
</div>
                </div>
       </div>
   </section>
 <!-- End Blog -->
 <!-- Start Contact -->
   <section class="contact" id="contact">
       <div class="container">
               <h2 class="title">Contact Us</h2>
               <div class="contact-content">
                     <form action="" method="post" name="form2">
                           <input type="text" placeholder="Name" name="name"/>
                           <input type="text" placeholder="Email"</pre>
name="email"/>
                           <input type="text" placeholder="Subject"</pre>
name="Subject"/>
                           <textarea placeholder="Message" name="Message"
></textarea>
                           <button class="btn-light" name="submit1">Send
Message</button>
                     </form>
               </div>
       </div>
   </section>
 <!-- End Contact -->
 <!-- Start Footer -->
   <footer>
        <div class="container">
               <div class="footer-content">
                     <div class="box">
                            <div class="icon">
                                 <span class="fa fa-phone"></span>
```

```
<h4>Phone</h4>
                        +91 8393993993
                   </div>
                   <div class="box">
                         <div class="icon">
                             <span class="fa fa-envelope"></span>
                        </div>
                        <h4>Eamil</h4>
                        QuizzTime@info.com
                   </div>
                   <div class="box">
                        <div class="icon">
                             <span class="fa fa-map-marker"></span>
                        </div>
                        <h4>Location</h4>
                        Sec-95, New Delhi 110020
                   </div>
             </div>
             <div class="social-links">
                  <l
                        <a href=""><span class="fab fa-
facebook"></span></a>
                       <a href=""><span class="fab fa-</a>
linkedin"></span></a>
                       <a href=""><span class="fab fa-
skype"></span></a>
                       <a href=""><span class="fab fa-
instagram"></span></a>
                  </div>
       </div>
  </footer>
 <!-- End Footer -->
```

</div>

```
<!-- jquery code -->
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></scrip</pre>
<script>
      $(document).ready(function(){
            var bottom=$("header").outerHeight();
            var header=$("header").offset().top + bottom;
     $(window).scroll(function(){
          // header fixed only when window width greater than 991px
         if($(window).width()>991){
      if($(window).scrollTop()>=header){
            $("header").addClass("sticky")
      }
      else{
       $("header").removeClass("sticky")
     }
     })
     // navbar active link
     $(".navbar ul li a").click(function(){
       $(".navbar ul li a").removeClass("active")
       $(this).addClass("active");
     })
   $(".ham-burger").click(function(){
      $(this).toggleClass("active")
```

```
$(".navbar").toggleClass("open");
})

</script>
</php
if (isset($_POST["submit1"]))
{
//echo "testing...";
mysqli_query($link,"insert into contact_home
values('$_POST[name]', '$_POST[email]', '$_POST[Subject]', '$_POST[Message]')")
or die(mysqli_error($link));
}
?>
</body>
</html>
```

