**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-15**

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**Department of Computer Applications**

**ONLINE QUIZ SYSTEM**

**PROJECT WORK**

*Submitted By*

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*Under the guidance of*

**Prof. Dr. R.BALAJI GANESH**

*Submitted in fulfillment of the project in php/MySQL*

**NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI-15**

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**CERTIFICATE**

*This is to certify that* ***Mr. Gourav kumar,*** *student of 2nd semester MCA (batch 2019-2022) of National Institute of Technology, Tiruchirappalli has successfully completed the project* ***ONLINE QUIZ SYSTEM*** *in PL/SQL**under the guidance of* ***Prof. Dr. R.BALAJI GANESH***

Signature

**CONTENTS**

|  |  |  |
| --- | --- | --- |
| **Sr. No** | **Description** | **Page No.** |
| 1 | Problem Description and Analysis |  |
| 2 | Tables Descriptions and schema |  |
| 3 | Creation of Tables using SQL |  |
| 4 | Source Codes |  |
| 5 | Screenshots |  |
| 6 | Enhancement and conclusion |  |
| 7 | References & bibliography |  |
|  | Total Pages | 31 |

**Problem Description and Analysis**

Online quiz system to focus on creating effective assessment questions and focusing on exam’s feedback delivery to students. In the paper we present techniques that are relevant 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.

Students who are attending for online examination can communicate with the system through this projects. And the details of students who attempted Online Examination are maintained at administrator.

**SYSTEM ANALYSIS**

1. Existing 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.

DISADVANTAGES:

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.

Objective of the System

The objective of the Online Quiz System 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.

**TABLES DESCRIPTION AND SCHEMAS**

**1). Category**

|  |  |  |
| --- | --- | --- |
| COLUMN NAME | TYPE | CONSTRAINT |
| Id | Int(5) | PRIMARY KEY, NOT NULL |
| cat\_name | VARCHAR(30) |  |

**2). Sign up**

|  |  |  |
| --- | --- | --- |
| COLUMN NAME | TYPE | CONSTRAINT |
| Id | Int(5) | Primary key,NOT NULL |
| Name | Varchar(30) |  |
| Email | Varchar(30) | UNIQUE,NOT NULL |
| Password | Varchar(30) |  |
| Image | Varchar(255) |  |

**3. Questions**

|  |  |  |
| --- | --- | --- |
| COLUMN NAME | TYPE | CONSTRAINT |
| Q\_id | Int(5) | PRIMARY KEY, NOT NULL |
| Question | Varchar(255) | NOT NULL |
| Answer1 | Varchar(255) | NOT NULL |
| Answer2 | VARCHAR(255) | NOT NULL |
| Answer3 | Varchar(255) | NOT NULL |
| Answer4 | Varchar(255) | NOT NULL |
| Correct answer | Int(5) | NOT NULL |
| cat\_id | Int(5) | FOREIGN KEY,NOT NULL |

**CREATING TABLES USING SQL**

**1. TABLE Signup**

SQL>

create table signup(

id int(5) primary key not null,

name varchar(30),

email varchar2(30) not null,

password varchar2(30),

image varchar(30) );

**2. TABLE category**

SQL>

CREATE TABLE CATEGORY

(

ID INT(5) PRIMARY KEY NOT NULL,

CAT\_NAME VARCHAR(30)

);

**3. TABLE Questions**

SQL>

CREATE TABLE QUESTIONS(

Q\_ID INT(5) PRIMARY KEY NOT NULL,

QUESTION VARCHAR(255) NOT NULL,

ANSWER1 VARCHAR(255) NOT NULL,

ANSWER2 VARCHAR(255) NOT NULL,

ANSWER3 VARCHAR(255) NOT NULL,

ANSWER4 VARCHAR(255) NOT NULL,

CORRECT ANSWER INT(5) NOT NULL,

CAT\_ID INT(5) FOREIGN KEY NOT NULL;

);

**SOURCE CODE**

**Index.php**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Quizzare</title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<style>

header.page-header {

background: no-repeat left/cover url("images/quiz.logo.jpg");

display: flex;

height: 120px;

min-width: 20px;

align-items: center;

color: #ffdd2f;

text-shadow: #000 0 0 .2em;

}

header.page-header > h1 {

font: bold calc(1em + 2 \* (100vw - 120px) / 100) 'Dancing Script', cursive,

fantasy;

margin: 2%;

}

main {

font: 1rem 'Fira Sans', sans-serif;

}

</style>

<body style="background-image:url("images/index image.jpg");">

<header class="page-header">

<h1>Welcome to Quizzare</h1>

</header>

<div class="container" style="border-style: double; padding: 10px;">

<div class="row">

<div class="col-sm-6">

<div class="panel panel-info">

<div class="panel-heading"><h2>Login Form</h2></div>

<div class="panel-body">

<?php

if(isset($\_GET['run']) && $\_GET['run']=="failed")

{

echo"<mark>Incorrect Email and Password</mark>";

}

?>

<form action="sign\_in.php" method="post">

<div class="form-group">

<label for="email">Email:</label>

<input type="email" class="form-control" name="em" id="email" placeholder="Enter email">

</div>

<div class="form-group">

<label for="pwd">Password:</label>

<input type="password" class="form-control" name="pas" id="pwd" placeholder="Enter password">

</div>

<button type="submit" class="btn btn-default">Submit</button>

</form>

</div>

</div>

</div>

<div class="col-sm-6">

<div class="panel panel-primary">

<div class="panel-heading"><h2>Signup Form</h2></div>

<div class="panel-body">

<?php

if(isset($\_GET['run']) && $\_GET['run']=="success")

{

echo "Your registration is Successfully done";

}

?>

<form action="signup\_sub.php" method="post" enctype="multipart/form-data">

<div class="form-group">

<label for="name">Name:</label>

<input type="text" class="form-control" name="n" id="name" placeholder="Enter your name">

</div>

<div class="form-group">

<label for="email">Email:</label>

<input type="email" class="form-control" name="e" id="email" placeholder="Enter email">

</div>

<div class="form-group">

<label for="pwd">Password:</label>

<input type="password" class="form-control" name="p" id="pwd" placeholder="Enter password">

</div>

<div class="form-group">

<label for="pwd">Upload Image:</label>

<input type="file" class="form-control" id="file" name="img">

</div>

<button type="submit" class="btn btn-default">Submit</button>

</form>

</div>

</div>

</div>

</div>

</div>

</body>

</html>

Screenshot

![A screenshot of a cell phone

Description automatically generated]()

**HOME.PHP**

<?php

include("class/users.php");

$em = $\_SESSION["email"];

$profile = new users;

$profile->user\_profile($em);

$profile->cat\_show();

//print\_r($profile->cat);

?>

<!DOCTYPE html>

<html lang="en">

<head>

<title></title>

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

</style>

<body>

<div class="container">

<h2>Welcome to Quiz World</h2>

<ul class="nav nav-tabs">

<li class="active"><a data-toggle="tab" href="#home">Home</a></li>

<li><a data-toggle="tab" href="#account">Account</a></li>

<li style="float:right;"><a href="signout.php">Logout</a></li>

</ul>

<div class="tab-content">

<div id="home" class="tab-pane fade in active">

<h3>HOME</h3>

<br>

<center><button type="button" class="btn btn-primary" data-toggle="tab" href="#select">Start quiz</button></center>

<br>

<div class="col-sm-4"></div>

<div class="col-sm-4">

<div id="select" class="tab-pane fade">

<form action="ques\_show.php" method="POST">

<select class="form-control" name="cat">

<option>--select Category--</option>

<?php

foreach($profile->cat as $category)

{ ?>

<option value="<?php echo $category['id'];?>"> <?php echo $category['cat\_name'];?> </option>

<?php

}

?>

</select>

<br>

<center><input type="submit" value="submit" class="btn btn-primary" /></center>

</form>

</div>

</div>

<div class="col-sm-4"></div>

</div>

<div id="account" class="tab-pane fade">

<h3>Account Setting</h3>

<br>

<table class="table table-hover">

<thead>

<tr>

<th>id</th>

<th>Username</th>

<th>Email</th>

<th>image</th>

</tr>

</thead>

<tbody>

<?php

foreach($profile->data as $prof)

{?>

<tr>

<td><?php echo $prof['id']; ?></td>

<td><?php echo $prof['name']; ?></td>

<td><?php echo $prof['email']; ?></td>

<td><img src="img/<?php echo $prof['img'] ?>" alt="" width="40px" height="40px" /></td>

</tr>

<?php

}

?>

</tbody>

</table>

</div>

</div>

</div>

</body>

</html>

**Screenshot**

![A screenshot of a cell phone

Description automatically generated]()

**SIGNIN.PHP**

<?php

include("class/users.php");

$sign = new users;

extract($\_POST);

if($sign->signin($em,$pas))

{

$sign->url("home.php");

}

else

{

$sign->url("index.php?run=failed");

}

?>

**CLASS/USERS.PHP**

<?php

session\_start();

class users{

public $host = "localhost";

public $username = "root";

public $pass = "";

public $db\_name = "web\_quiz";

public $conn;

public $data;

public $cat;

public $ques;

public $ans;

public $qst;

public function \_\_construct()

{

$this->conn = mysqli\_connect($this->host,$this->username,$this->pass,$this->db\_name);

if($this->conn->connect\_errno)

{

die("Database Connection Failed".$this->conn->connect\_errno);

}

}

public function signup($data)

{

$this->conn->query($data);

return true;

}

public function url($url)

{

header("location:".$url);

}

public function signin($email,$pass)

{

$en = "select email,pass from signup where email='$email' and pass='$pass'";

$q = $this->conn->query($en);

$q->fetch\_array(MYSQLI\_ASSOC);

if($q->num\_rows > 0 )

{

$\_SESSION['email'] = $email;

return true;

}

else

{

return false;

}

}

public function user\_profile($email)

{

$en = "select \* from signup where email='$email'";

$q = $this->conn->query($en);

$row = $q->fetch\_array(MYSQLI\_ASSOC);

if($q->num\_rows > 0 )

{

$this->data[] = $row;

}

return $this->data;

}

public function cat\_show()

{

$en = "select \* from category";

$q = $this->conn->query($en);

while($row = $q->fetch\_array(MYSQLI\_ASSOC))

{

$this->cat[] = $row;

}

return $this->cat;

}

public function ques\_show($ques)

{

$en = "select \* from questions where cat\_id='$ques'";

$q = $this->conn->query($en);

while($row = $q->fetch\_array(MYSQLI\_ASSOC))

{

$this->ques[] = $row;

}

return $this->ques;

}

public function answer($data)

{

$ans = implode("",$data);

$right = 0;

$wrong = 0;

$no\_answer = 0;

$en = "select id,correct\_ans from questions where cat\_id='".$\_SESSION['cat']."'";

$q = $this->conn->query($en);

$n = "not\_attempt";

while($qst = $q->fetch\_array(MYSQLI\_ASSOC))

{

if($qst['correct\_ans'] == $\_POST[$qst['id']])

{

$right++;

}

elseif($\_POST[$qst['id']] == $n)

{

$no\_answer++;

}

else

{

$wrong++;

}

}

$array = array();

$array['right'] = $right;

$array['wrong'] = $wrong;

$array['no\_answer'] = $no\_answer;

return $array;

}

}

?>

**Ques\_show.php**

<?php

include("class/users.php");

$ques = new users;

$cat = $\_POST['cat'];

$ques->ques\_show($cat);

$\_SESSION['cat'] = $cat;

?>

<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>

<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

<h2>Quiz in HTML</h2>

<br>

<div id="time" style="float:right; margin-right:50px;">Timout : </div>

<br>

<div class="col-sm-2"></div>

<div class="col-sm-8">

<form action="answer.php" method="POST">

<?php

$i = 1;

foreach($ques->ques as $qst) { ?>

<table class="table table-hover">

<thead>

<tr>

<th><?php echo $i;?>&emsp;<?php echo $qst['ques'];?></th>

</tr>

</thead>

<tbody>

<?php if(isset($qst['answer1'])){?>

<tr class="info">

<td>&nbsp; 1. &emsp;<input type="radio" value="0" name="<?php echo $qst['id'];?>"/>&nbsp;<?php echo $qst['answer1'];?></label></td>

</tr>

<?php }?>

<?php if(isset($qst['answer2'])){?>

<tr class="info">

<td>&nbsp; 2. &emsp;<input type="radio" value="1" name="<?php echo $qst['id'];?>"/>&nbsp;<?php echo $qst['answer2'];?></label></td>

</tr>

<?php }?>

<?php if(isset($qst['answer3'])){?>

<tr class="info">

<td>&nbsp; 3. &emsp;<input type="radio" value="2" name="<?php echo $qst['id'];?>"/>&nbsp;<?php echo $qst['answer3'];?></label></td>

</tr>

<?php }?>

<?php if(isset($qst['answer4'])){?>

<tr class="info">

<td>&nbsp; 4. &emsp;<input type="radio" value="3" name="<?php echo $qst['id'];?>"/>&nbsp;<?php echo $qst['answer4'];?></label></td>

</tr>

<?php }?>

<tr class="info">

<td><input type="radio" checked="checked" style="display:none" value="not\_attempt" name="<?php echo $qst['id'];?>"/></label></td>

</tr>

</tbody>

</table>

<?php

$i++;

}

?>

<center><input type="submit" value="submit" class="btn btn-success"/></center>

</form>

</div>

<div class="col-sm-2"></div>

</div>

</body>

</html>

**Screenshot**

**![A screenshot of a social media post

Description automatically generated]()![A screenshot of a social media post

Description automatically generated]()**

**![A screenshot of a social media post

Description automatically generated]()Database Screenshot**

**![A screenshot of a social media post

Description automatically generated]()**

**Enhancement and conclusion**

**Enhancement:**

This is a very basic effort to computerize the Exam. There are yet a lot of features that can be added to the system. Some of them are as follows:

We can provide the time limit like if you want take a quiz for an hour or two.

We can provide the features of history like if we want to see the previous record.

**Conclusion:**

This project helped in realizing the concepts of analyzing databases and programming in PHP/MySQL.

As it is not an easy task to start with a project, least to mention an database oriented one. On this regard I owe my whole hearted thanks to our faculty **DR. R.BALAJI GANESH** for lending a helping hand during the course of my project.

**References and Bibliography**

1. Ivan Bayross, SQL, PL/SQL The programming language of Oracle
2. Korth, Sudershan, Databse System Concepts
3. Complete reference for oracle