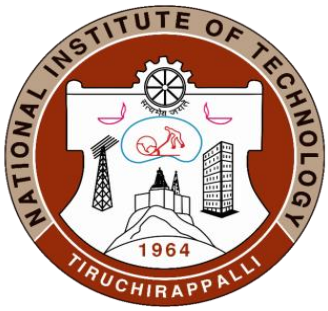
National Institute of Technology, Tiruchirappalli



Department of Computer Applications

(2019-2022)

Database Management Systems

PROJECT REPORT

Submitted To:-

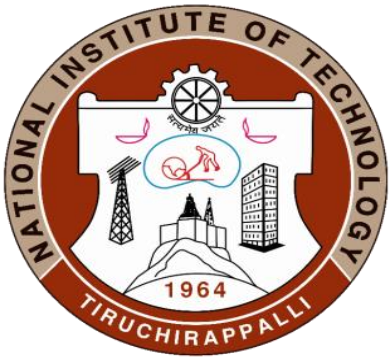
Dr.U.Vignesh

Submitted By:-

205119037

Harshita Jha

MCA-II Sem-'A'



CERTIFICATE

This is to certify that **HARSHITA JHA (205119037)** student of MCA 2nd semester (2019-2022) of National Institute of Technology, Tiruchirappalli has successfully completed the project **ONLINE QUIZ SYSTEM** in PL/SQL under the guidance of **Dr.U.Vignesh.**

(Signature)

Dr.U.Vignesh

ACKNOWLEDGEMENT

I would like to give a special thanks of gratitude to Dr.U.Vignesh , who gave me the golden opportunity to do this wonderful project of Database Management Systems on ONLINE QUIZ SYSTEM, who has helped me in completing my project.

While doing the project , I came to know about many new things, I am thankful to them.

Secondly I would also like to thanks my parents and friends who helped me a lot in finalizing this project within the limited time frame.

205119037

Harshita Jha

MCA-II sem A

ABSTRACT

According to our scenario, due to COVID-19 online exams are to be conducted in schools and colleges. Online examinations are an important method of evaluating the success potential of students.

This research effort the individuals under consideration were students who would be enrolling in computer courses or Technologies Registrations. A prototype of a web-based placement examination system is described from the standpoint of the research effort, end user, and software development.

An on-line educational system including exam processing and electronic journal features. An instructor builds a course based questions which on-line contain in identification of assignments. Which are compiled into an on-line exam syllabus?

Users enrolled in the platform may access the electronic details they provided and perform various functions with the on-line educational system in order to participate in the on-line examinations. Users can receive an on-line exam, having multimedia content, for the course, and they can electronically provide answers for the exam. And after Completion of their duration of exam they are provided the grade or marks secured in their examinations.

Tables Description

Tables used in this project:-

ADMIN

ATTRIBUTES	DATA TYPES	NULL VALUES
admin_id	int(11)	PRIMARY KEY
email	Varchar(50)	NOT NULL
password	Varchar(500)	NOT NULL

QUESTIONS

ATTRIBUTES	DATA TYPES	NULL VALUES
eid	int(11)	FOREIGN KEY
Qid	Varchar(50)	PRIMARY KEY
Qns	Varchar(500)	NOT NULL
choice	Int(10)	NOT NULL
sn	Int(11)	NOT NULL

QUIZ

ATTRIBUTES	DATA TYPES	NULL VALUES
eid	text	PRIMARY KEY
Title	Varchar(100)	NOT NULL
Correct	int(11)	NOT NULL
wrong	int(11)	NOT NULL
Total	Int(11)	NOT NULL
Time	Bigint(20)	NOT NULL
Intro	Text	NOT NULL
Tag	Varchar(100)	NOT NULL
Date	Timestamp	NOT NULL

USER

ATTRIBUTES	DATA TYPES	NULL VALUES
Name	varchar(50)	NOT NULL
Gender	Varchar(5)	NOT NULL
College	Varchar(500)	NOT NULL
Email	varchar(50)	NOT NULL
Mobile	bigint(20)	NOT NULL
password	Varchar(50)	NOT NULL

ANSWERS

ATTRIBUTES	DATA TYPES	NULL VALUES
qid	text	PRIMARY KEY
ansid	text	NOT NULL

OPTIONS

ATTRIBUTES	DATA TYPES	NULL VALUES
qid	Varchar(50)	NOT NULL
Option	Varchar(5000)	NOT NULL
optionid	text	NOT NULL

RANK

ATTRIBUTES	DATA TYPES	NULL VALUES
Score	int(11)	NOT NULL
Email	Varchar(50)	NOT NULL
time	Timestamp	NOT NULL

FEEDBACK

ATTRIBUTES	DATA TYPES	NULL VALUES
Id	Text	NOT NULL
Name	Varchar(50)	NOT NULL
Email	Varchar(50)	NOT NULL
Subject	varchar(500)	NOT NULL
Feedback	Varchar(500)	NOT NULL
date	date	NOT NULL
time	Varchar(50)	NOT NULL

OVERVIEW OF TECHNOLOGIES USED

PHP

PHP: Hypertext Preprocessor, is a widely used, general-purpose scripting language that was originally designed for web development, to produce dynamic web pages. It can be embedded into HTML and generally runs on a web server, which needs to be configured to process PHP code and create web page content from it. It can be deployed on most web servers and on almost every operating system and platform free of charge.

PHP has evolved to include a command line interface capability and can also be used in standalone graphical applications.

PHP is a general-purpose scripting language that is especially suited for web development. PHP generally runs on a web server. Any PHP code in a requested file is executed by the PHP runtime, usually to create dynamic web page content. It can also be used for command-line scripting and client-side GUI applications. PHP can be deployed on most web servers, many operating systems and platforms, and can be used with many relational database management systems. It is available free of charge, and the PHP Group provides the complete source code for users to build, customize and extend for their own use.

About HTML

HTML, which stands for Hyper Text Markup Language, is the predominant markup language for web pages. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists etc as well as for links, quotes, and other items. It allows images and objects to be embedded and can be used to create interactive forms. It is written in the form of HTML elements consisting of "tags" surrounded by angle brackets within the web page content. It can include or can load scripts in languages such as JavaScript which affect the behavior of HTML processors like Web browsers; and Cascading Style Sheets (CSS) to define the appearance and layout of text and other material. The W3C, maintainer of both HTML and CSS standards, encourages the use of CSS over explicit presentational markup.

Hyper Text Markup Language(HTML) is the encoding scheme used to create and format a web document. A user need not be an expert programmer to make use of HTML for creating hypertext documents that can be put on the internet.

The most common filename extension for files containing HTML is .html. A common abbreviation of this is .htm, which originated because some early operating systems and file systems, such as DOS and FAT, limited file extensions to three letters.

ABOUT JAVASCRIPT

JavaScript is an object-oriented scripting language used to enable programmatic access to objects within both the client application and other applications. It is primarily used in the form of client-side JavaScript, implemented as an integrated component of the web browser, allowing the development of enhanced user interfaces and dynamic websites. JavaScript is a dialect of the ECMAScript standard and is characterized as a dynamic, weakly typed, prototype-based language with first-class functions. JavaScript was influenced by many languages and was designed to look like Java, but to be easier for non-programmers to work with.

PROTOTYPE-BASED

JavaScript uses prototypes instead of classes for inheritance. It is possible to simulate many class-based features with prototypes in JavaScript.

Functions double as object constructors along with their typical role. Prefixing a function call with new creates a new object and calls that function with its local this keyword bound to that object for that invocation.

The primary use of JavaScript is to write functions that are embedded in or included from HTML pages and interact with the Document Object Model (DOM) of the page.

A JavaScript engine (also known as *JavaScript interpreter* or *JavaScript implementation*) is an interpreter that interprets JavaScript source code and executes the script accordingly. The first JavaScript engine was created by Brendan Eich at Netscape Communications Corporation, for the Netscape Navigator web browser. A web browser is by far the most common host

environment for JavaScript. Web browsers typically use the public API to create "host objects" responsible for reflecting the DOM into JavaScript.

ABOUT MySQL

There are a large number of database management systems currently available, some commercial and some free.
Some of them : Oracle, Microsoft Access, Mysql and PostgreSQL.
These database systems are powerful, feature-rich software, capable of organizing and searching millions of records at very high speeds.

Understanding Databases, Records, and Primary Keys. Every Database is composed of one or more tables. These Tables, which structure data into rows and columns, Impose organization on the data.

The records in a table(below) are not arranged in any particular order.
To make it easy to identify a specific record, therefore, it becomes necessary standing Relationships and Foreign Keys(RDBMS)

You already know that a single database can hold multiple tables.
In a Relational database management system(RDBMS), these tables can be linked to each other by one or more common fields, called foreign keys.

What is Database administrator(DBA) ?

Database administrator is the super user of database, he has unrestricted rights and privileges to access database, grant permission to other database users.

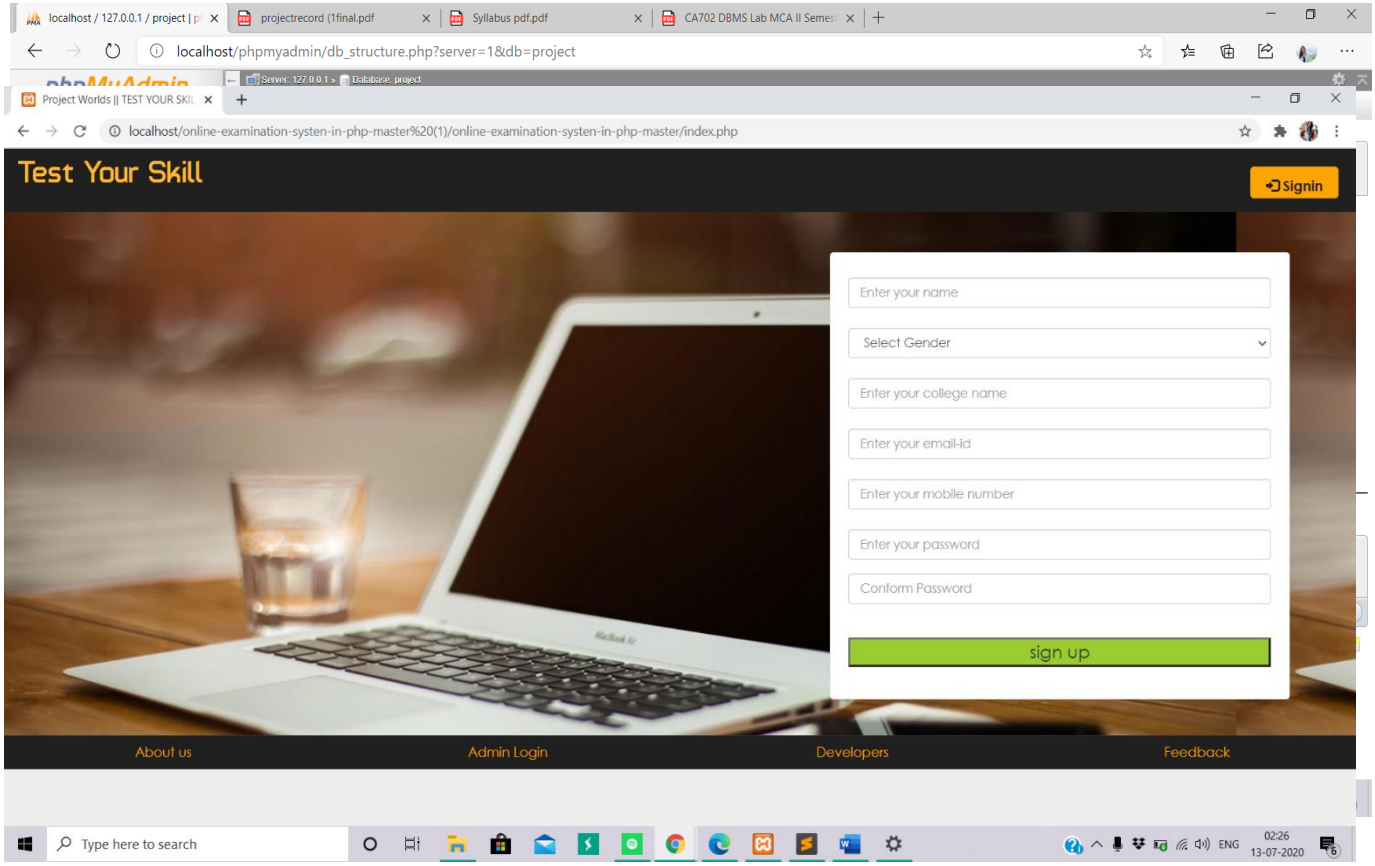
What is Database User (DBU)?

Database user is the person who uses the database in a restricted privileges, provided by database administrator.

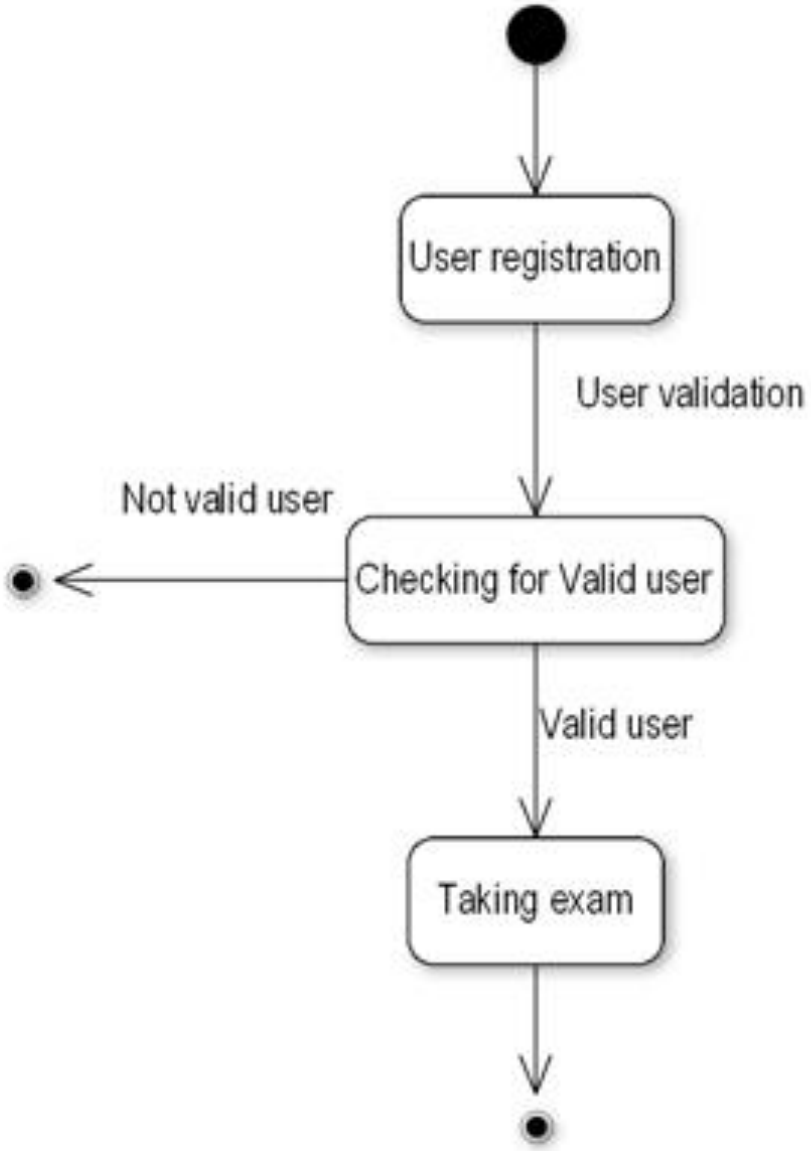
Download MySQL Database

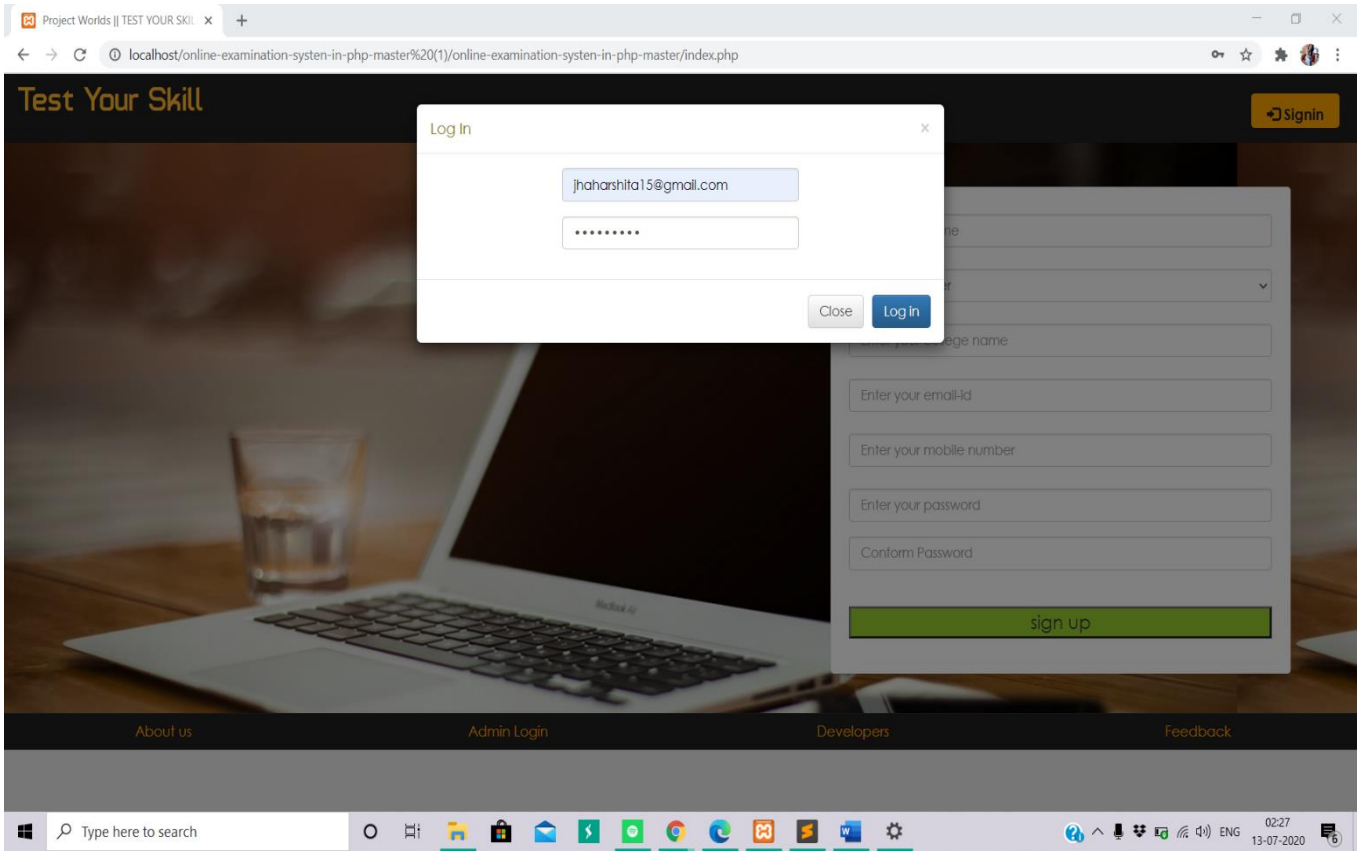
If you have installed PHP's WAMP or XAMPP server, then mysql database already exists. if you don't have then download mysql database from herehttp://www.mysql.com

It is a home page in which it directly ask for a Sign Up. If a user has already signed up then diretly sign in.

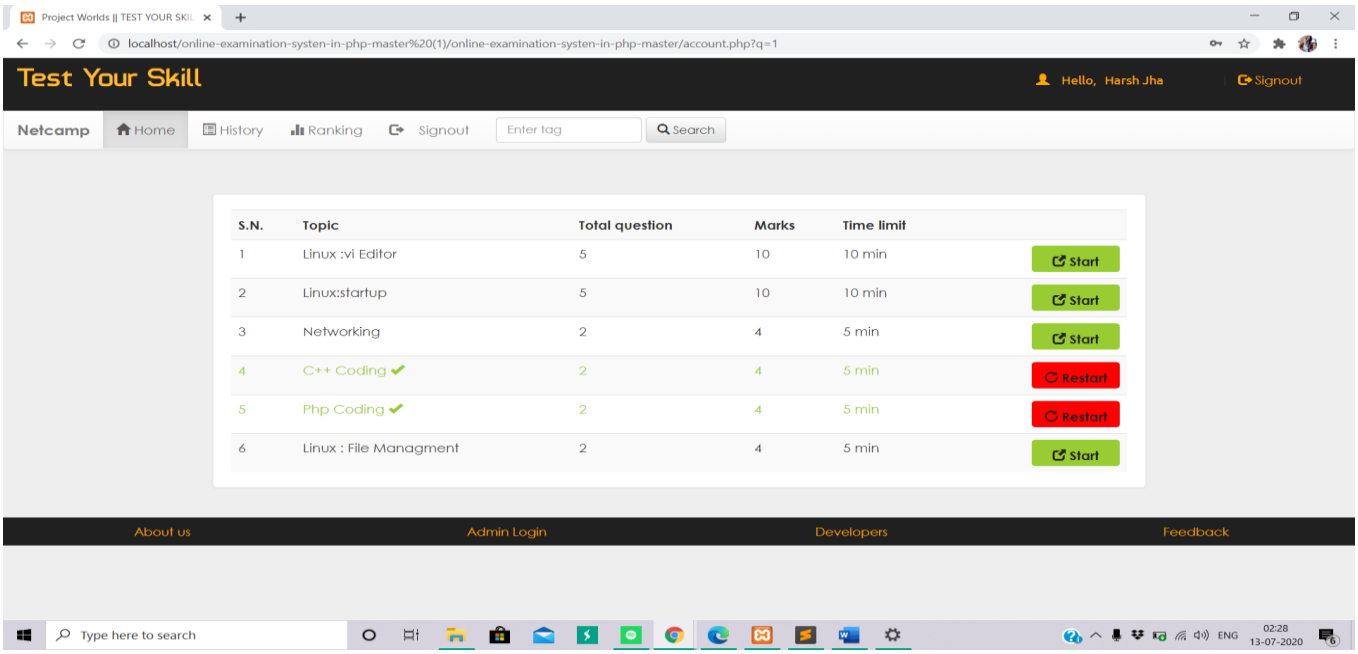


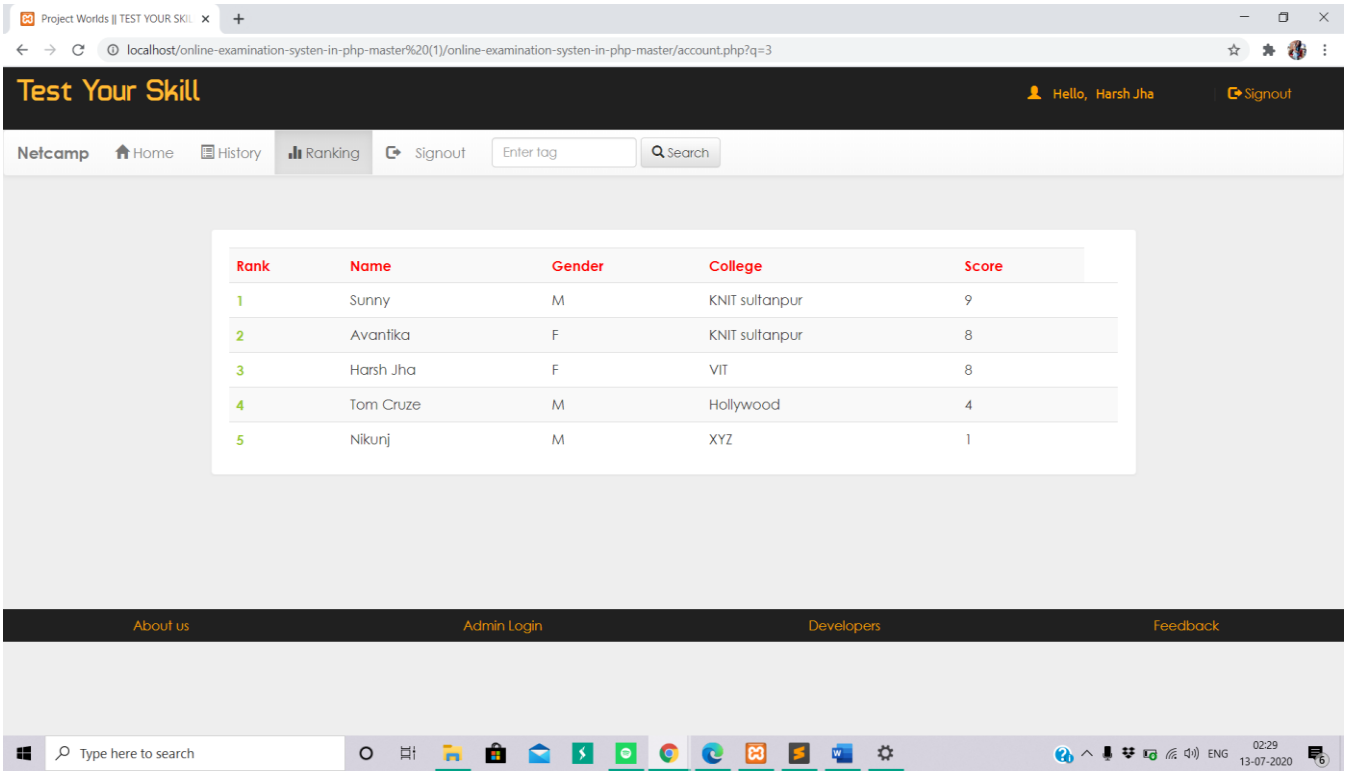
Statechart Diagram



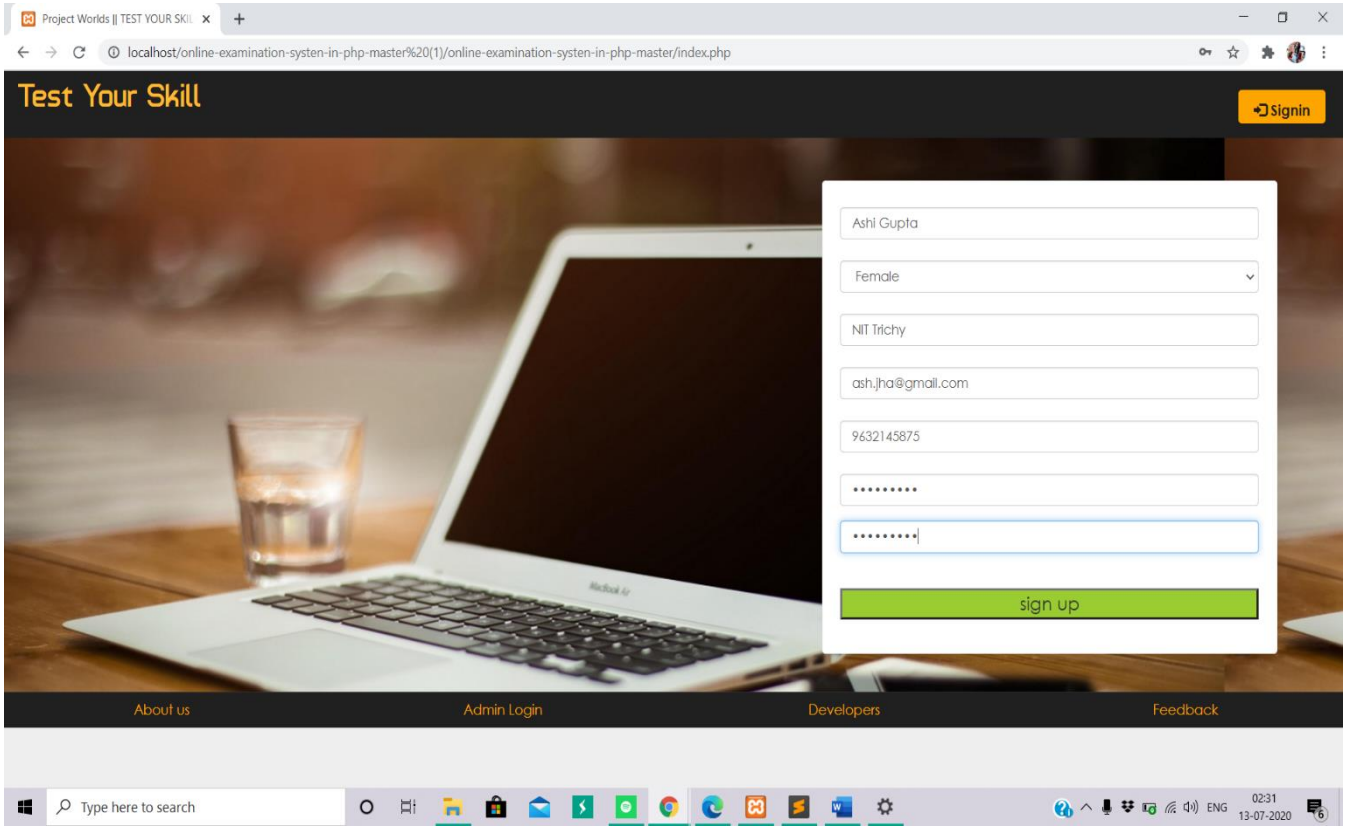


In this it shows the quiz to user , history in which their records then how many quiz they attended and in ranking it shows the overall scores for the quiz , their correct and wrong answers.

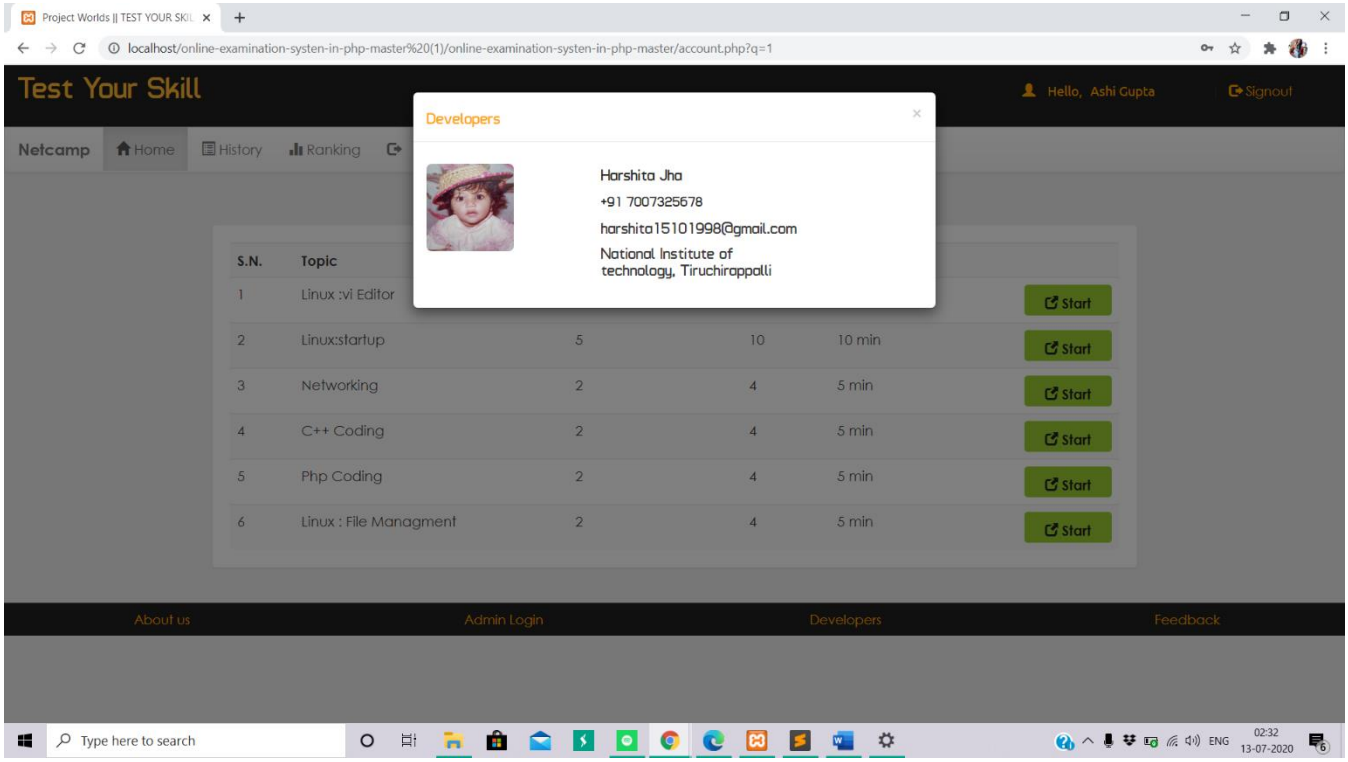


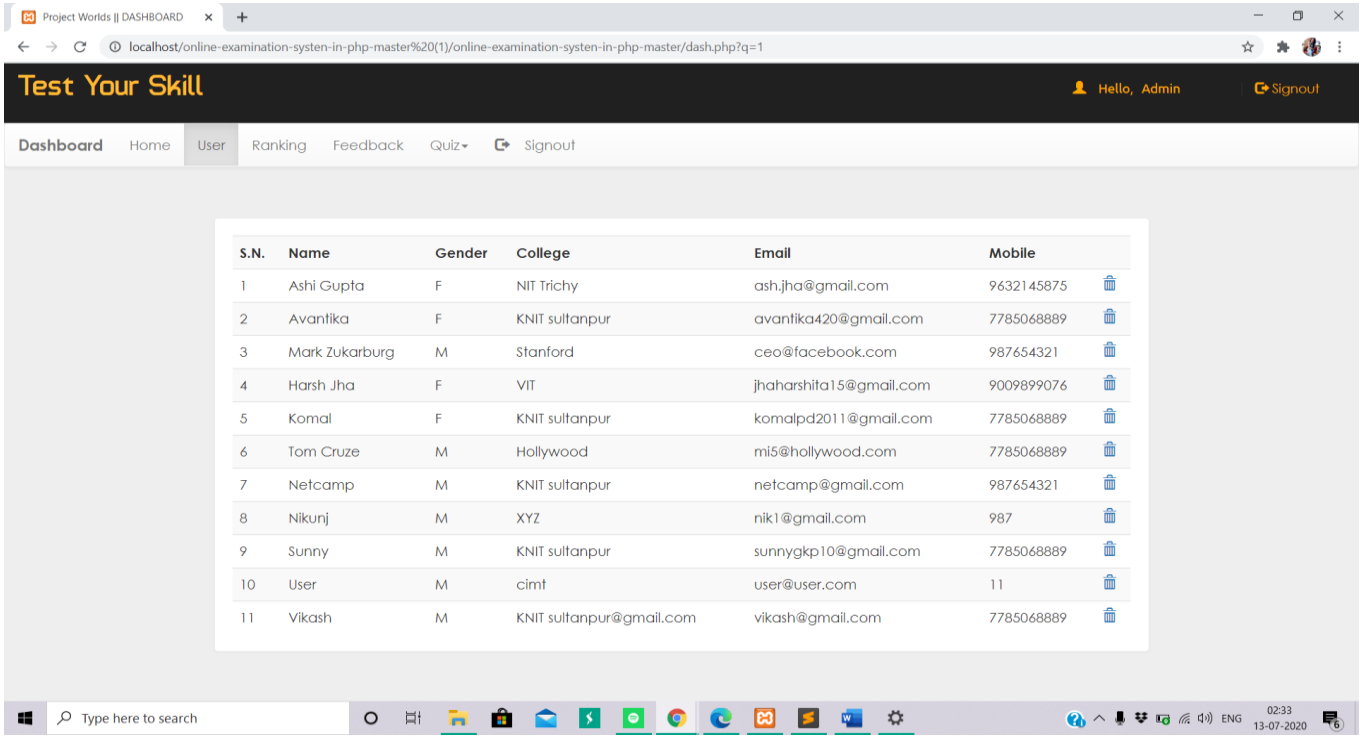

Project Worlds || TEST YOUR SKIL
localhost/online-examination-systen-in-php-master%20(1)/online-examination-systen-in-php-master/account.php?q=3
Test Your Skill
Hello, Harsh Jha
Signout
Netcamp
Home
History
Ranking
Signout
Enter tag
Search
Rank Name Gender College Score
1 Sunny M KNIT sultanpur 9
2 Avantika F KNIT sultanpur 8
3 Harsh Jha F VIT 8
4 Tom Cruze M Hollywood 4
5 Nikunj M XYZ 1
About us
Admin Login
Developers
Feedback
Type here to search
ENG
02:29
13-07-2020

Sign Up page

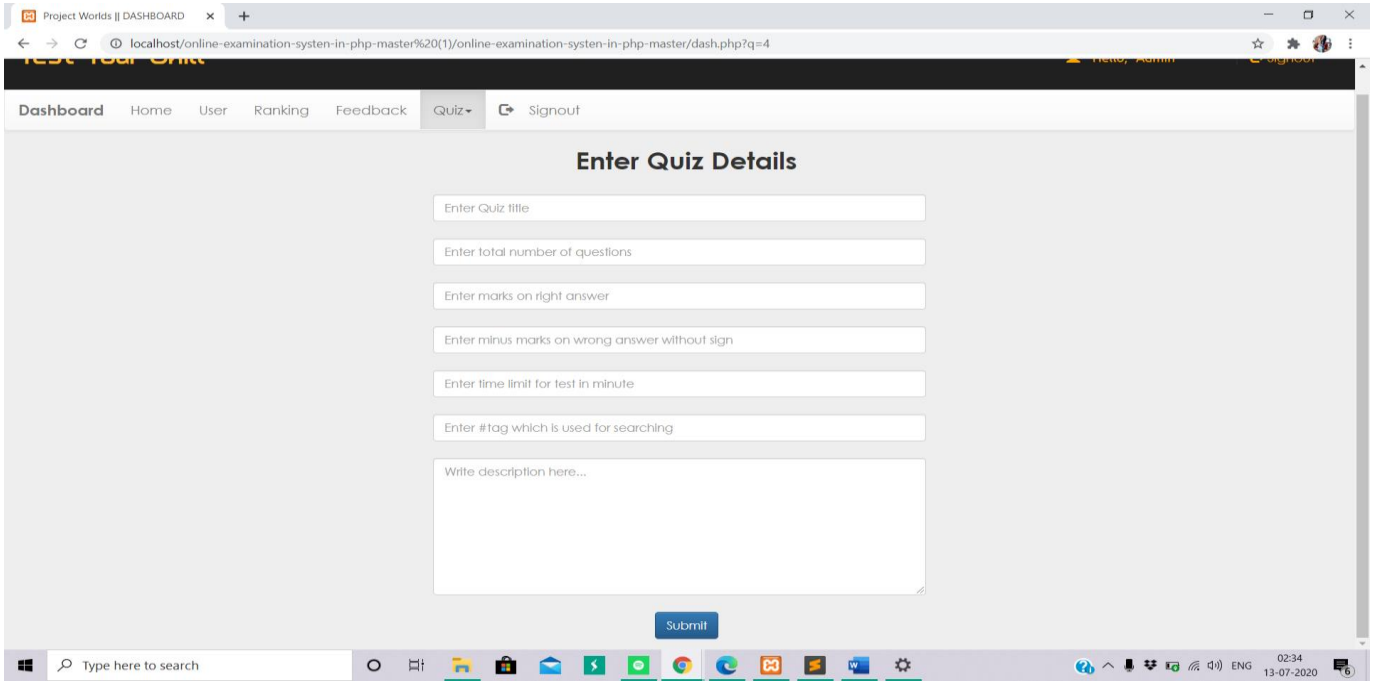

Project Worlds || TEST YOUR SKIL
localhost/online-examination-systen-in-php-master%20(1)/online-examination-systen-in-php-master/index.php
Test Your Skill
Signin
Ashi Gupta
Female
NIT Trichy
ash.jha@gmail.com
9632145875
sign up
About us
Admin Login
Developers
Feedback
Type here to search
ENG
02:31
13-07-2020

At the bottom of the page , there is a developer option which shows the introduction of QUIZ developer.

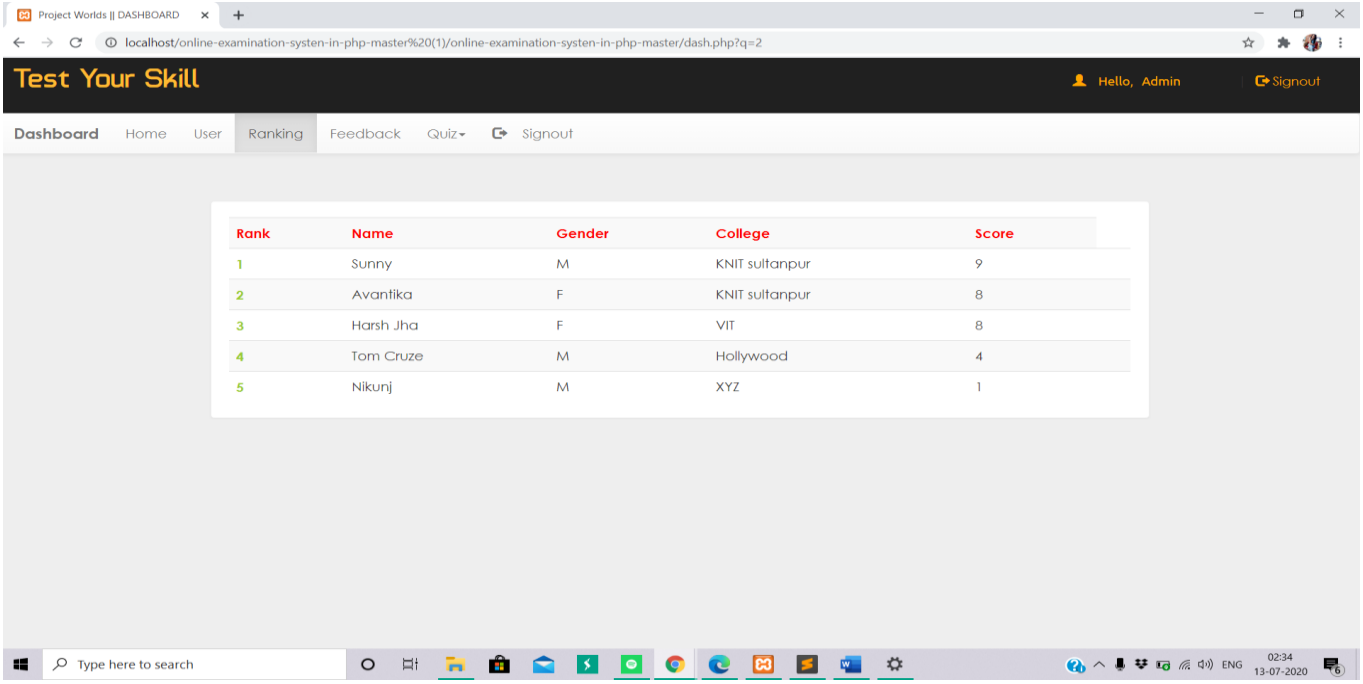




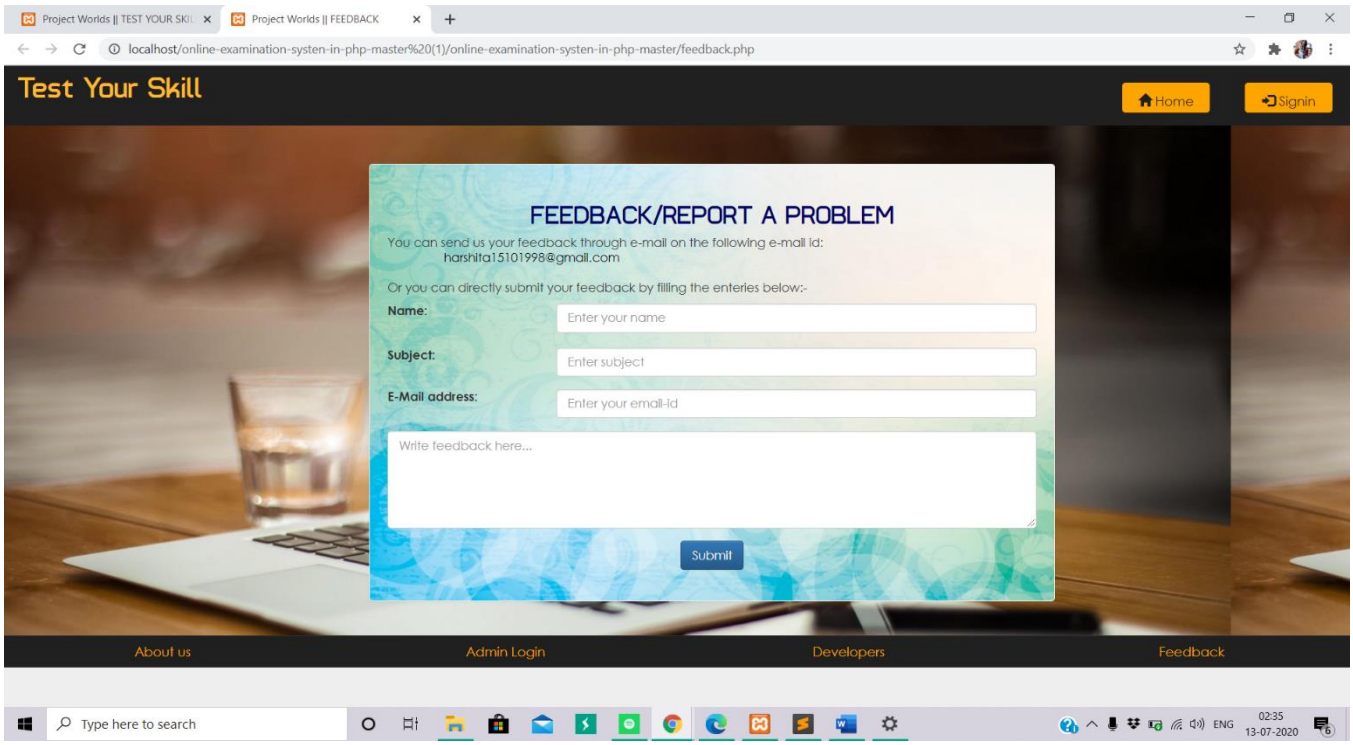
In this page a developer can add quiz details ans also can remove the quiz.



This is a ranking section of admin page where admin see the name and score of users and name are sorted based on their marks i.e, descending order.

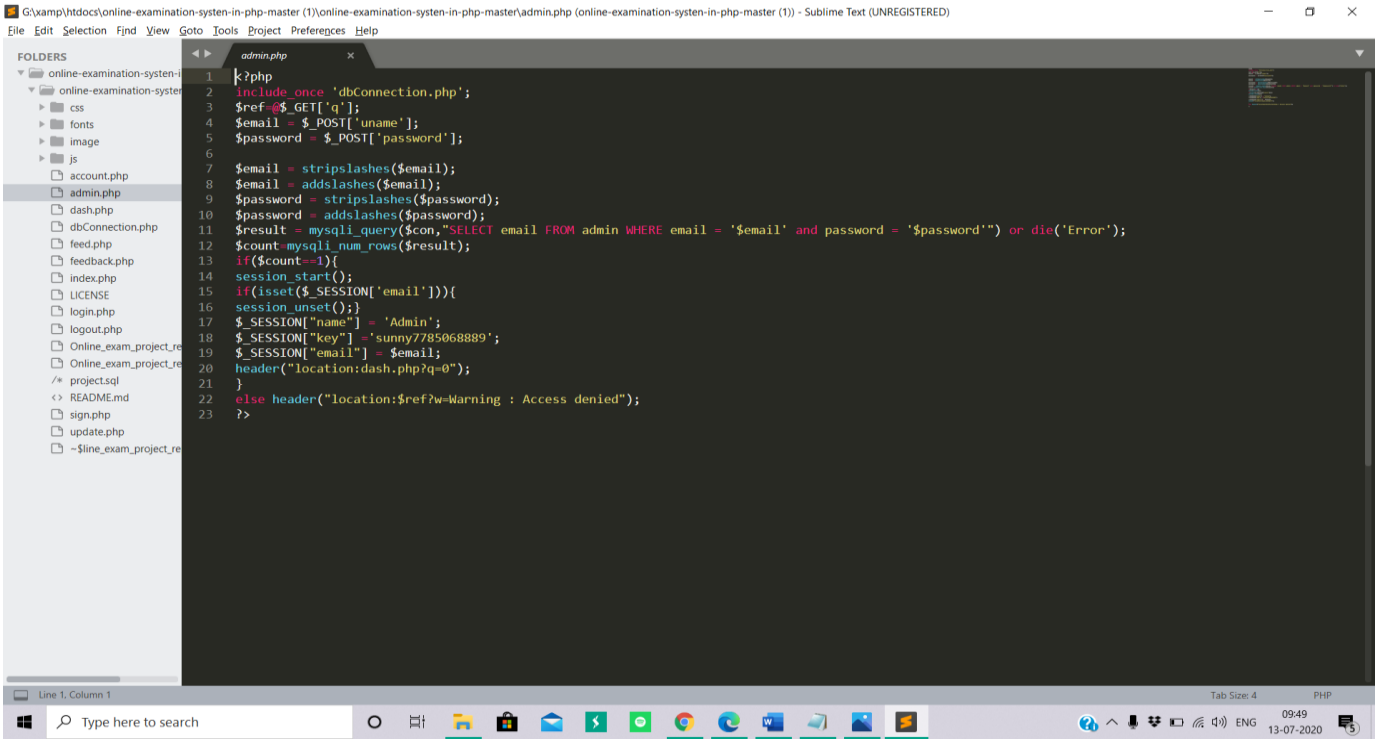


In this page , user can send their feedback or report any problem if there is some issue of starting quiz or in submission of quiz or related to any query.



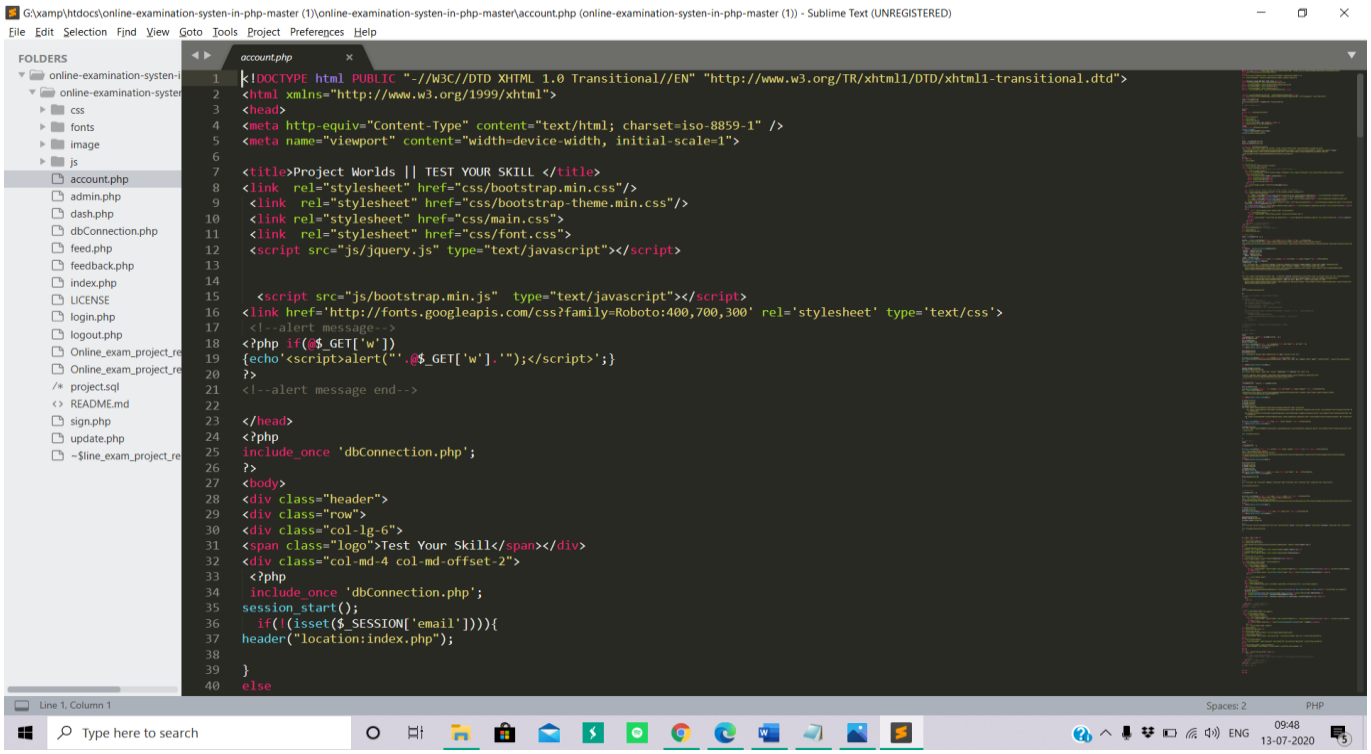
Files Description

Admin.php



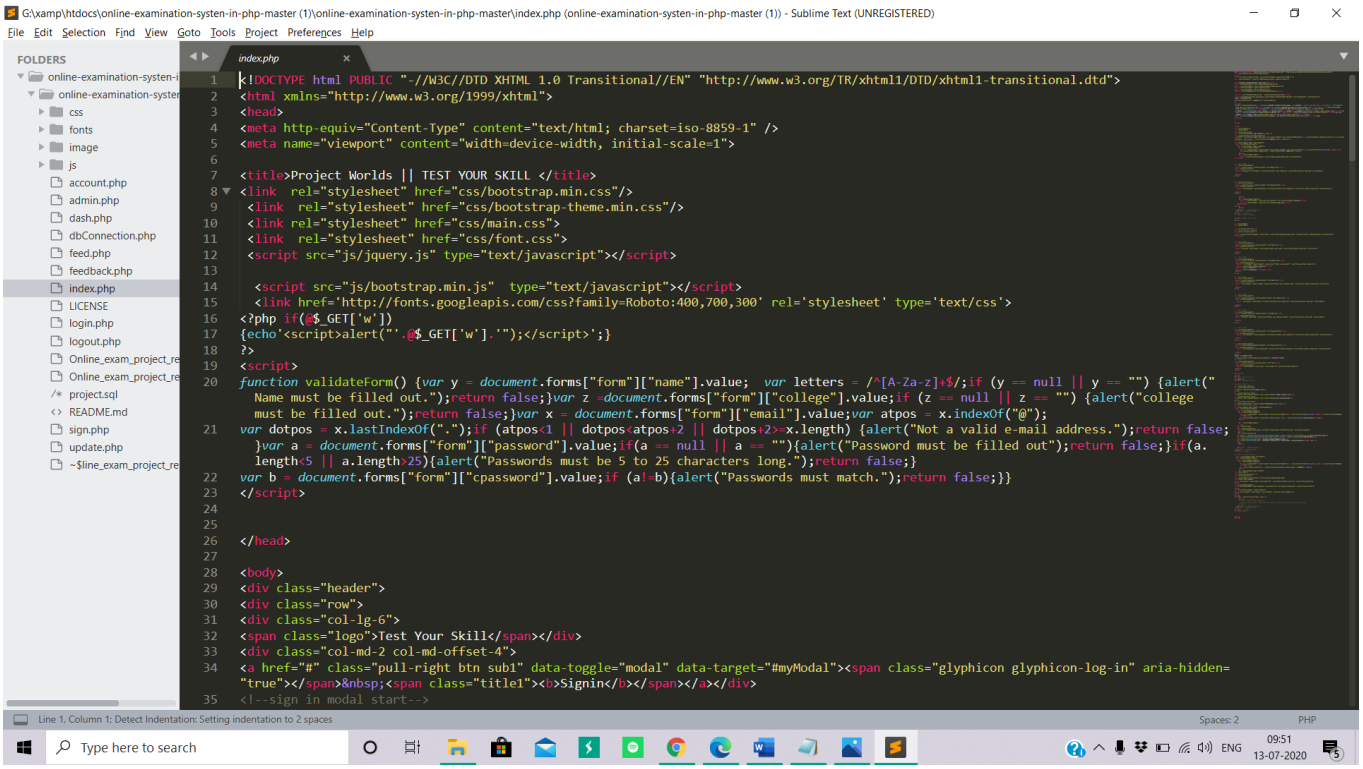
```php
<?php
include_once 'dbConnection.php';
$ref=@$_GET['q'];
$email = $_POST['uname'];
$password = $_POST['password'];

$email = stripslashes($email);
$email = addslashes($email);
$password = stripslashes($password);
$password = addslashes($password);
$result = mysqli_query($con,"SELECT email FROM admin WHERE email = '$email' and password = '$password'") or die('Error');
$count=mysqli_num_rows($result);
if($count==1){
session_start();
if(isset($_SESSION['email'])){
session_unset();}
$_SESSION["name"] = 'Admin';
$_SESSION["key"] ='sunny7785068889';
$_SESSION["email"] = $email;
header("location:dash.php?q=0");
}
else header("location:$ref?w=Warning : Access denied");
?>
```

Account.php

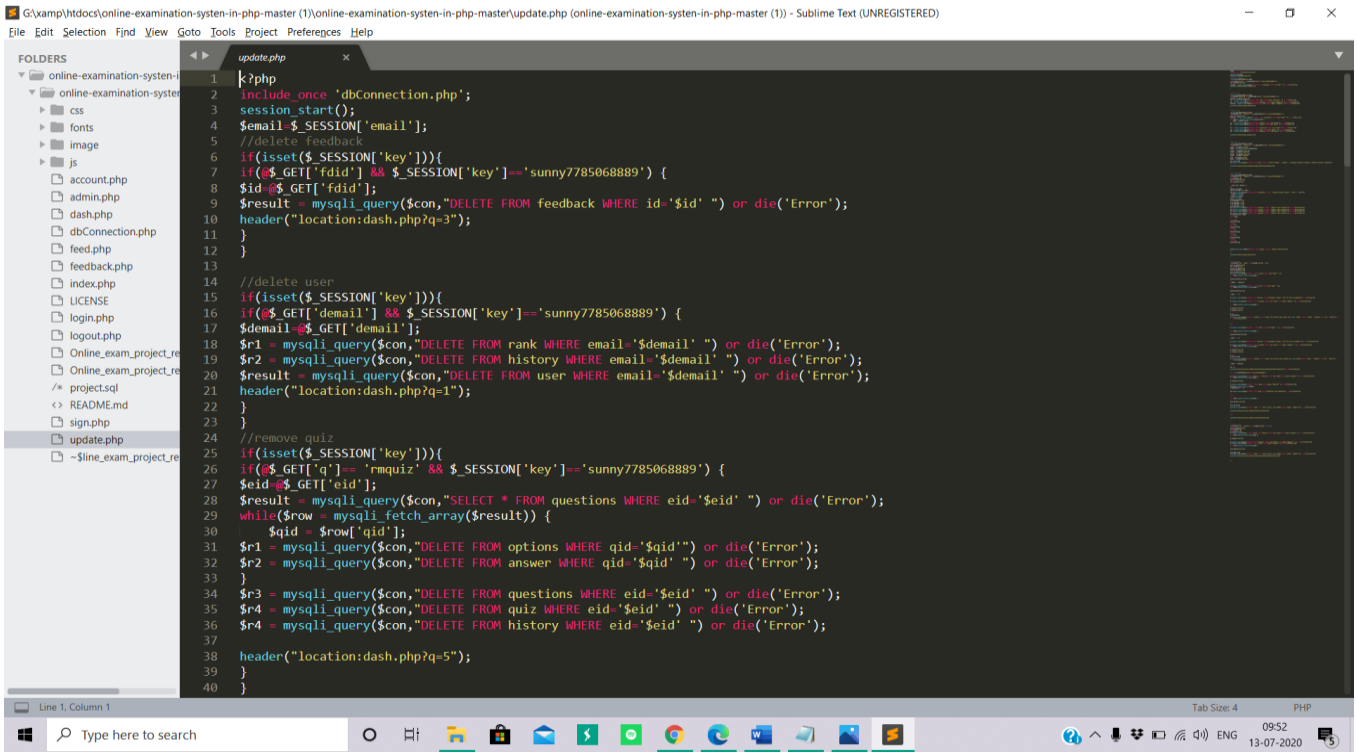


```php
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<meta name="viewport" content="width=device-width, initial-scale=1">

<title>Project Worlds || TEST YOUR SKILL </title>
<link  rel="stylesheet" href="css/bootstrap.min.css"/>
 <link  rel="stylesheet" href="css/bootstrap-theme.min.css"/>
 <link rel="stylesheet" href="css/main.css">
 <link  rel="stylesheet" href="css/font.css">
 <script src="js/jquery.js" type="text/javascript"></script>


  <script src="js/bootstrap.min.js"  type="text/javascript"></script>
<link href='http://fonts.googleapis.com/css?family=Roboto:400,700,300' rel='stylesheet' type='text/css'>
 <!--alert message-->
<?php if(@$_GET['w'])
{echo'<script>alert("'.@$_GET['w'].'");</script>';}
?>
<!--alert message end-->

</head>
<?php
include_once 'dbConnection.php';
?>
<body>
<div class="header">
<div class="row">
<div class="col-lg-6">
<span class="logo">Test Your Skill</span></div>
<div class="col-md-4 col-md-offset-2">
 <?php
 include_once 'dbConnection.php';
session_start();
  if(!(isset($_SESSION['email']))){
header("location:index.php");

}
else
```

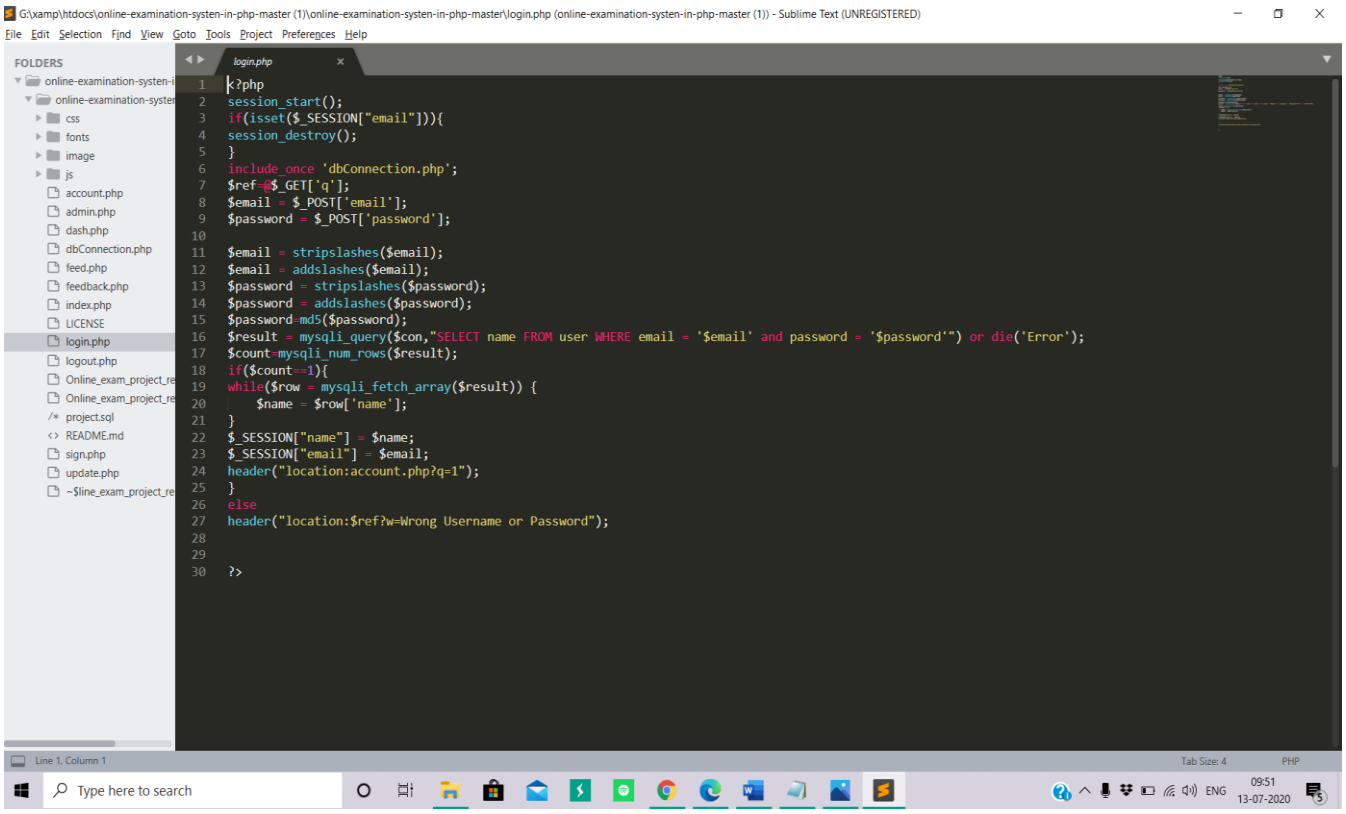
Index.php



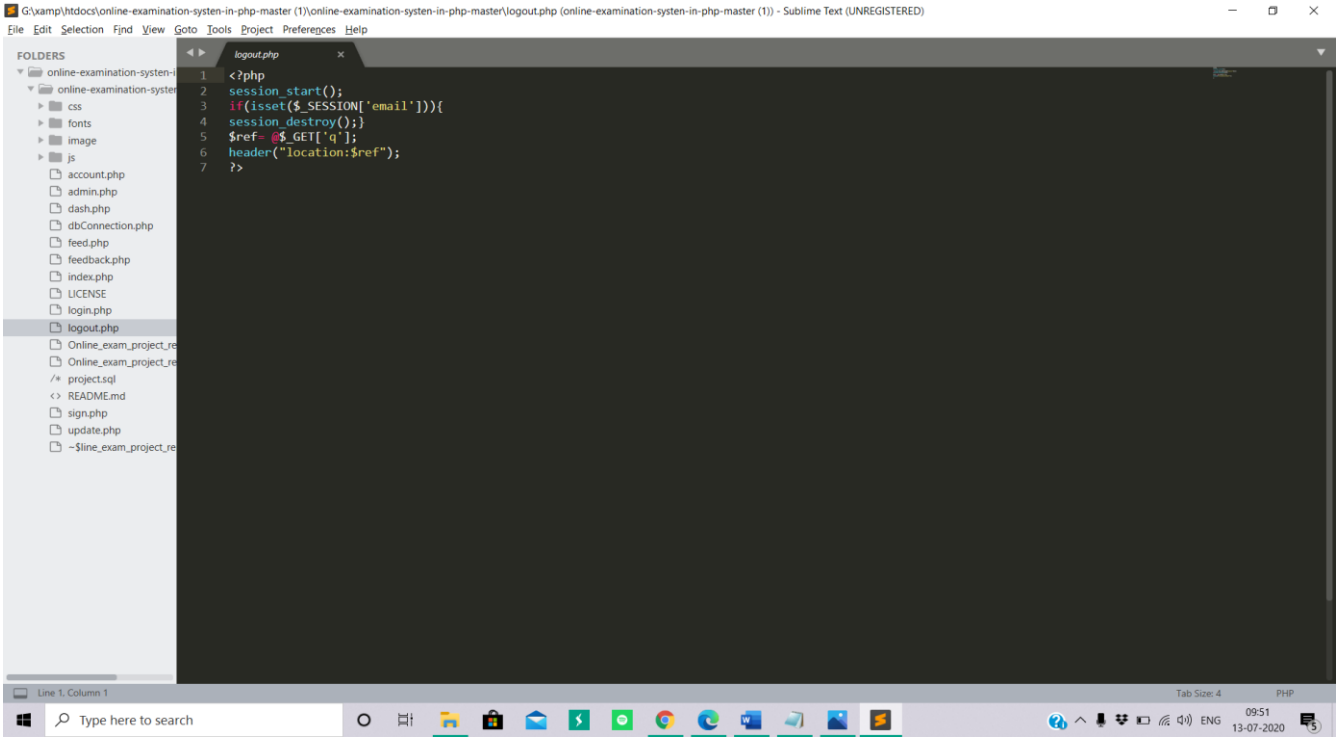
Update.php



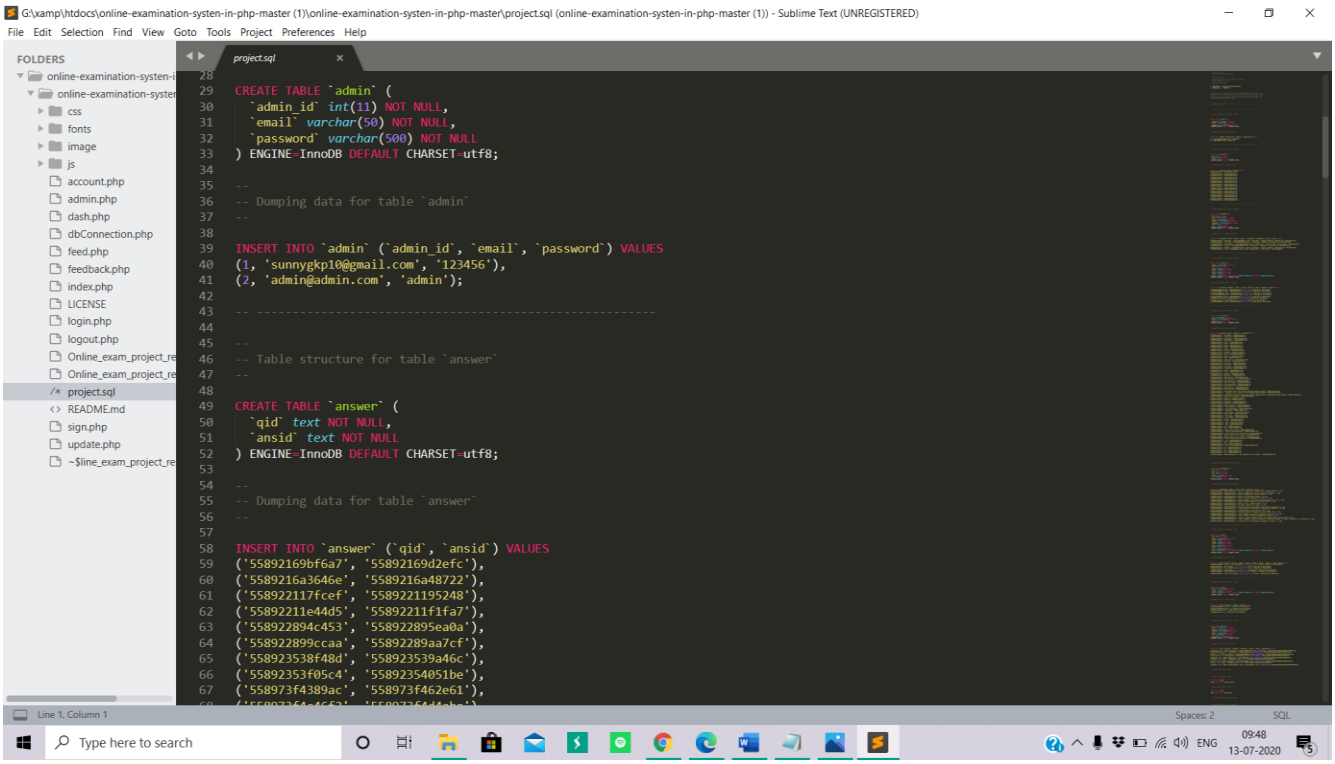
Login.php



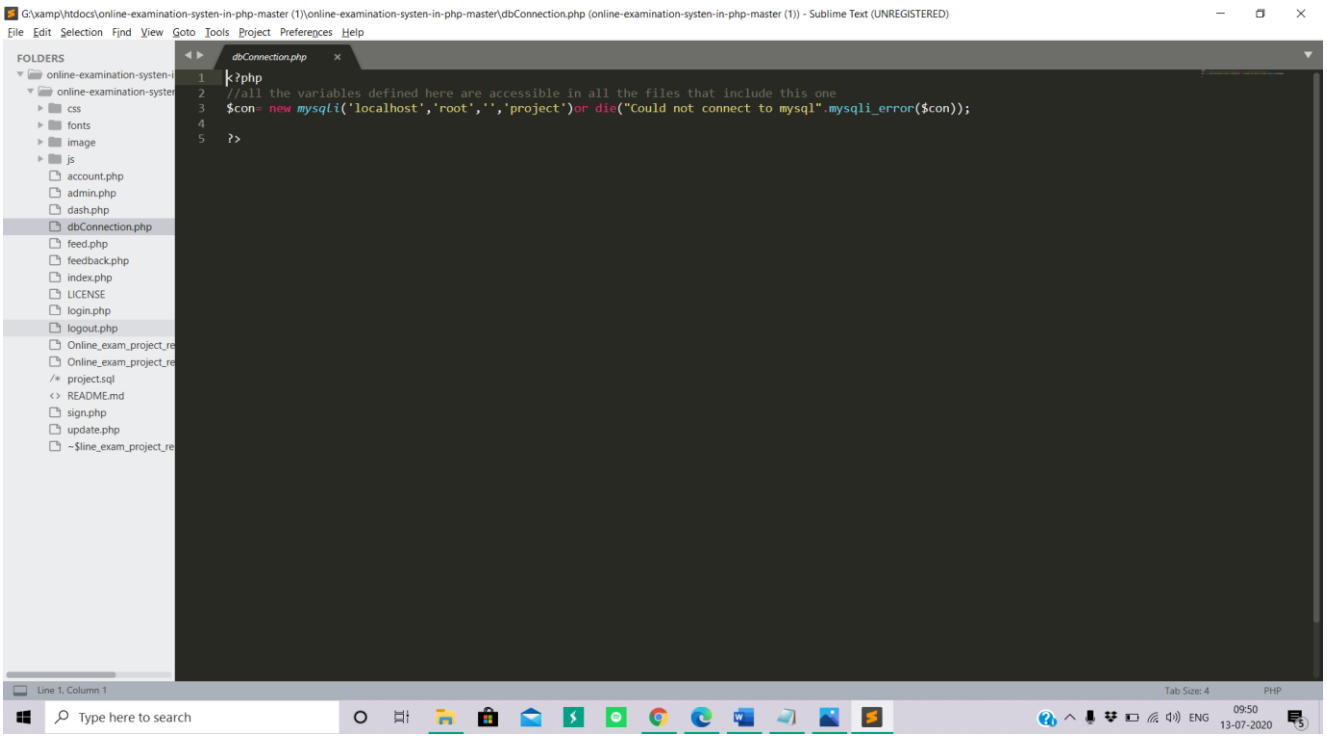
Logout.php



Project.sql



dbconnection.php



Conclusion

This ONLINE QUIZ SYSTEM is done with the above functionalities.

This system is useful for conducting online exams as relating to our current scenario due to COVID-19. Quiz helps the users to enhance their capability and build confidence as small questions can create a lot of difference.

Quiz helps very much in our placements as we a computer science students.

HARDWARE REQUIREMNTS

1. Hard-disk 10GB
2. 64 bit-operating system
3. 256 MB RAM
4. 512 KB Cache Memory

SOFTWARE REQUIREMNTS

1.Web Technology: PHP

2. WINDOWS 10 (x64 based processor)

3. Text editor (Sublime Text)

4. Apache SERVER

5. Front end: HTML,CSS,JAVASCRIPT

6. Back end: MySQL

References

1. Inntroduction to Mysql, Tutorials Point
2. Database Systems Concept, Hank Korth, Henry F. Korth, Abraham Silberschatz
3. PHP tutorial, You tube Lectures
4. Oracle database 10g , The Complete Reference

Thank You!