A

Major Project

On

ONLINE EXAMINATION SYSTEM

(Submitted in partial fulfilment of the requirements for the award of Degree)

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

BY

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CMR TECHNICAL CAMPUS

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2017-2021

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the project entitled "**ONLINE EXAMINATION SYSTEM**" being submitted by **M. VINODKUMAR (177R1A0534), L. PRAVEEN (177R1A0528), and M.ALEX (177R1A0540)** in partial fulfilment for the award of the degree of B.Tech in Computer Science and Engineering of the Jawaharlal Nehru Technological University Hyderabad, during the year 2020-2021. It is certified that they have completed the project satisfactorily.

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Submitted for viva voce Examination held on _____

ACKNOWLEDGEMENT

Apart from the efforts of us, the success of any project depends largely on the encouragement and guidelines of many others. We take this opportunity to express our gratitude to the people who have been instrumental in the successful completion of this project. We take this opportunity to express my profound gratitude and deep regard to my guide **Dr. Punyaban Patel,** Professor for his exemplary guidance, monitoring and constant encouragement throughout the project work. The blessing, help and guidance given by her shall carry us a long way in the journey of life on which we are about to embark.

We also take this opportunity to express a deep sense of gratitude to Project Review Committee (PRC) Coordinators: **Mr J. Narasimha Rao, Mr B. Deepak Kumar, Mr. K. Murali, Dr. Suwarna Gothane and Mr. B. Ramji** for their cordial support, valuable information and guidance, which helped us in completing this task through various stages. We are also thankful to the Head of the Department **Dr. K. Srujan Raju** for providing excellent infrastructure and a nice atmosphere for completing this project successfully. We are obliged to our Director **Dr. A. Raji Reddy** for being cooperative throughout the course of this project. We would like to express our sincere gratitude to our Chairman Sri. **Ch. Gopal Reddy** for his encouragement throughout the course of this project the guidance and support received from all the members of **CMR TECHNICALCAMPUS** who contributed and who are contributing to this project was vital for the success of the project. We are grateful for their constant support and help.

Finally, we would like to take this opportunity thank our family for their constant encouragement without which this assignment would not be possible. We sincerely acknowledge and thank all those who gave support directly and indirectly in completion of this project.

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ABSTRACT

Now-a-days, online examination softwares are becoming most popular. The main objective of this Online Examination System project in PHP is to eliminate the processing work which is being done manually. By the help of online examination system software any exam can be conducted without the need of paper and pen. It will also help the appearing candidates to get their result in short interval of time or just after completing their exams. Providing exam results is totally depending on the admin choice. If admin will configure system to display result just after completing the exam, then it will display it otherwise admin can configure the system, to display the result on particular date. It will help the universities, colleges and other institutions to take exam with low cost and less effort.

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1. INTRODUCTION

1. INTRODUCTION

1.1 PROJECT SCOPE

It is web based platform that can be used by Admin at any remote location. The Administrator of the system has authority to propose tests or papers. It is cost effective and time effective. The candidate can login through proposed computer with their Enrolment. Candidate can give their course's examination in a specific duration and specific number of questions. The questions can be appearing in mode MCQ (Multiple Choice Questions).

1.2 PROJECT PURPOSE

The objective of the Online Examination System is to provide correction, display the result immediately and also store it in database. This application provides the administrator with a facility to add new exams.

1.3 PROJECT FEATURES

The main feature of this project is to reduce the time of conducting, paper evaluation, and publishing results of students. It also avoids the physical contact (maintains social distance) in pandemic time.

2. SYSTEM-ANALYSIS

2. SYSTEM ANALYSIS

System Analysis is the important phase in the system development process. The system is studied to the minute details. The system analyst plays an important role of an interrogator and dwells deep into the working of the present system. In analysis, a detailed study of these operations performed by the system and their relationships within and outside the system is done. A key question considered here is, “what must be done to solve the problem?” The system is viewed as a whole and the inputs to the system are identified. Once analysis is completed the analyst has a firm understanding of what is to be done.

2.1 PROBLEM DEFINITION

A detailed study of the process must be made by various techniques like interviews, questionnaires etc. The data collected by these sources must be scrutinized to arrive to a conclusion. The conclusion is an understanding of how the system functions. This system is called the existing system. Now the existing system is subjected to close study and problem areas are identified. The designer now functions as a problem solver and tries to sort out the difficulties that the enterprise faces. The solutions are given as proposals. The proposal is then weighed with the existing system analytically and the best one is selected. The proposal is presented to the user for an endorsement by the user. The proposal is reviewed on user request and suitable changes are made. This is loop that ends as soon as the user is satisfied with proposal.

2.2 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.

2.2.1 LIMITATIONS OF EXISTING SYSTEM

Limitations of the existing system are

- A lot of copies of question papers have to be made.
- A lot of correction work hence delays in giving the results.
- A lot of tabulation work for each subject results.
- Deforestation increases because of heavy usage of paper.

.

2.3 PROPOSED SYSTEM

This application is used to conduct online examination. The students can sit at individual terminals and login to write the exam in the given duration. The questions have to be given to the students. This application will perform correction, display the result immediately and also store it in database. This application provides the administrator with a facility to add new exams. This application provides the Instructor add questions to the exam, modify questions in the exam in a particular exam. This application takes care of authentication of the administrator, Instructor as well as the student.

2.3.1 ADVANTAGES OF THE PROPOSED SYSTEM

Advantages of the proposed system are

- Login system must be present and secured by password.

- Ability to save the answer given by the candidate along with the question.
- Answer checking system should be available.
- Could Update Profile.
- Log out after the over.
- Admin Panel.
- It also saves the trees and environment (by reducing the paper usage).

2.4 FEASIBILITY STUDY

The feasibility of the project is analysed in this phase and business proposal is put forth with a very general plan for the project and some cost estimates. During system analysis the feasibility study of the proposed system is to be carried out. This is to ensure that the proposed system is not a burden to the company. Three key considerations involved in the feasibility analysis are

- Economic Feasibility
- Technical Feasibility
- Social Feasibility

2.4.1 ECONOMIC FEASIBILITY

The developing system must be justified by cost and benefit. Criteria to ensure that effort is concentrated on project, which will give best, return at the earliest. One of the factors, which affect the development of a new system, is the cost it would require.

The following are some of the important financial questions asked during preliminary investigation:

- The costs conduct a full system investigation.
- The cost of the hardware and software.
- The benefits in the form of reduced costs or fewer costly errors.

Since the system is developed as part of project work, there is no manual cost to spend for the proposed system. Also all the resources are already available, it give an indication of the system is economically possible for development.

2.4.2 TECHNICAL FEASIBILITY

This study is carried out to check the technical feasibility, that is, the technical requirements of the system. Any system developed must not have a high demand on the available technical resources. The developed system must have a modest requirement, as only minimal or null changes are required for implementing this system.

2.4.3 BEHAVIORAL FEASIBILITY

This includes the following questions:

- Is there sufficient support for the users?
- Will the proposed system cause harm?

The project would be beneficial because it satisfies the objectives when developed and installed. All behavioural aspects are considered carefully and conclude that the project is behaviourally feasible.

2.5 HARDWARE & SOFTWARE REQUIREMENTS

2.5.1 HARDWARE REQUIREMENTS:

Hardware interfaces specifies the logical characteristics of each interface between the software product and the hardware components of the system. The following are some hardware requirements.

- Hard Disk – 500 MB.
- RAM – 512 MB.
- CRT Monitor or TFT.
- Mouse.

- Keyboard.
- Graphics Card.

2.5.2 SOFTWARE REQUIREMENTS:

Software Requirements specifies the logical characteristics of each interface and software components of the system. The following are some software requirements,

- Operating System – Windows 7 or above.
- Front end – HTML and CSS.
- Language – PHP and JavaScript.
- Backend – MySQL.
- XAMPP Server.

3. ARCHITECTURE

3.1 PROJECT ARCITECTURE

The project architecture as shown in figure 3.1 shows the activities of an user(to take a test) and administrator(for conducting a test).

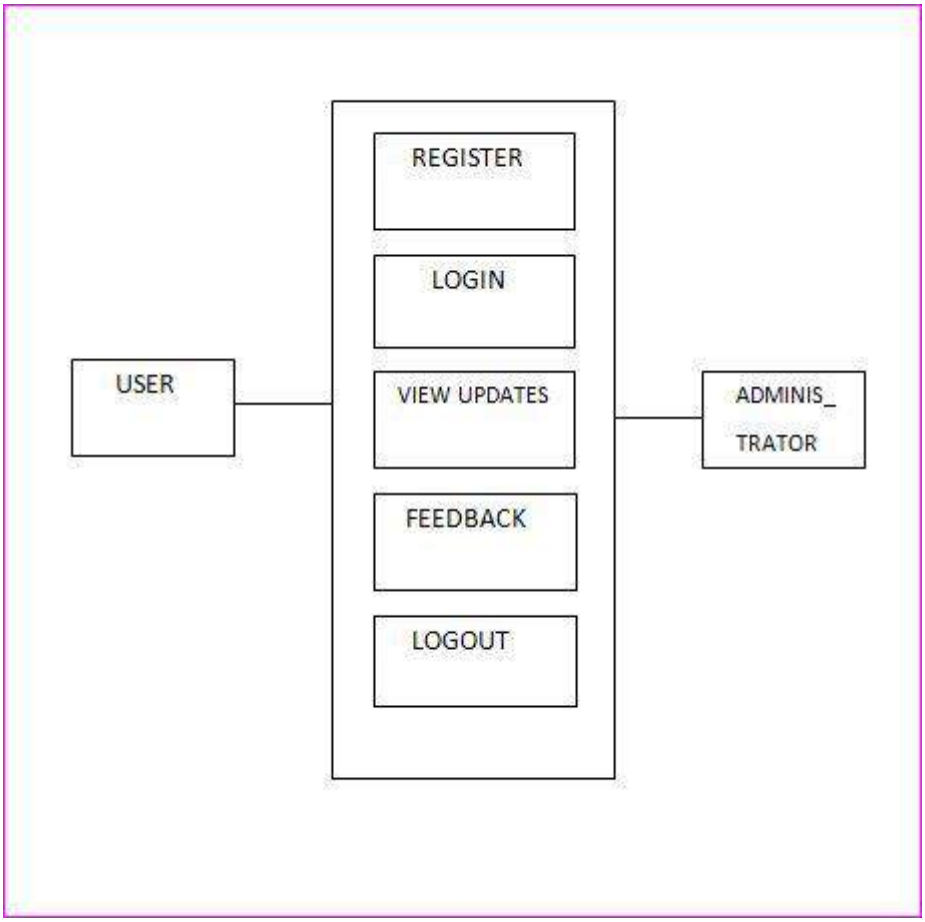


Fig 3.1: Project Architecture of Online Examination System

3.2 MODULES DESCRIPTION

This system consists of two modules. Those are

- ADMIN MODULE
- USER MODULE

3.2.1 ADMIN MODULE

Actions under Admin module are

1. Register
2. Login
3. Modification of Student details
4. Modification of exam questions
5. Logout

3.2.2 USER MODULE

Actions under User module

1. Register
2. Login
3. Take exam
4. See result
5. Logout

3.3 USE CASE DIAGRAM

In the use case diagram we have basically two actors who are the user and the administrator. The user has the rights to login, access to resources and to view the exam details. Whereas the administrator has the login, access to resources of the users and also the right to update and remove the exam details, and the admin can also view the user files. The project use case diagram as shown in figure 3.3

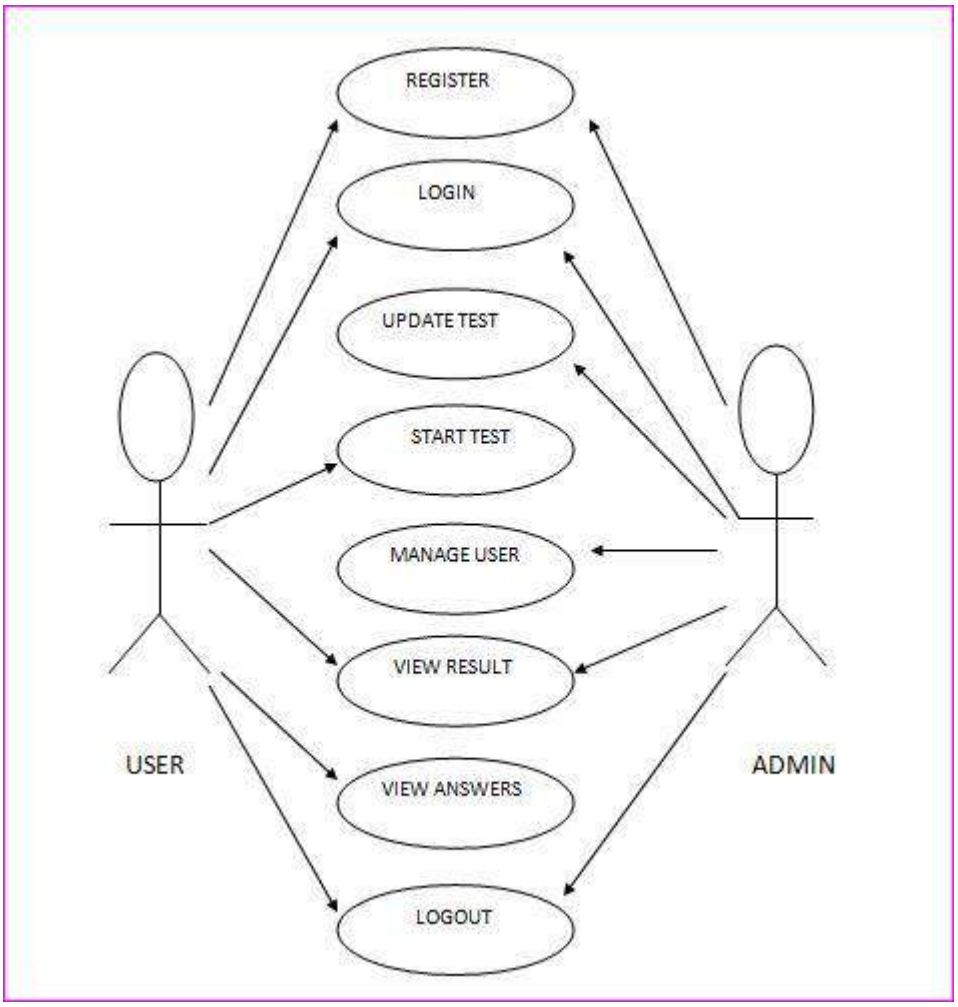


Fig 3.3: Use Case Diagram for Admin and User of Online Examination System

3.4 CLASS DIAGRAM

Class Diagram is a collection of classes and objects. The project class diagram as shown in figure 3.4

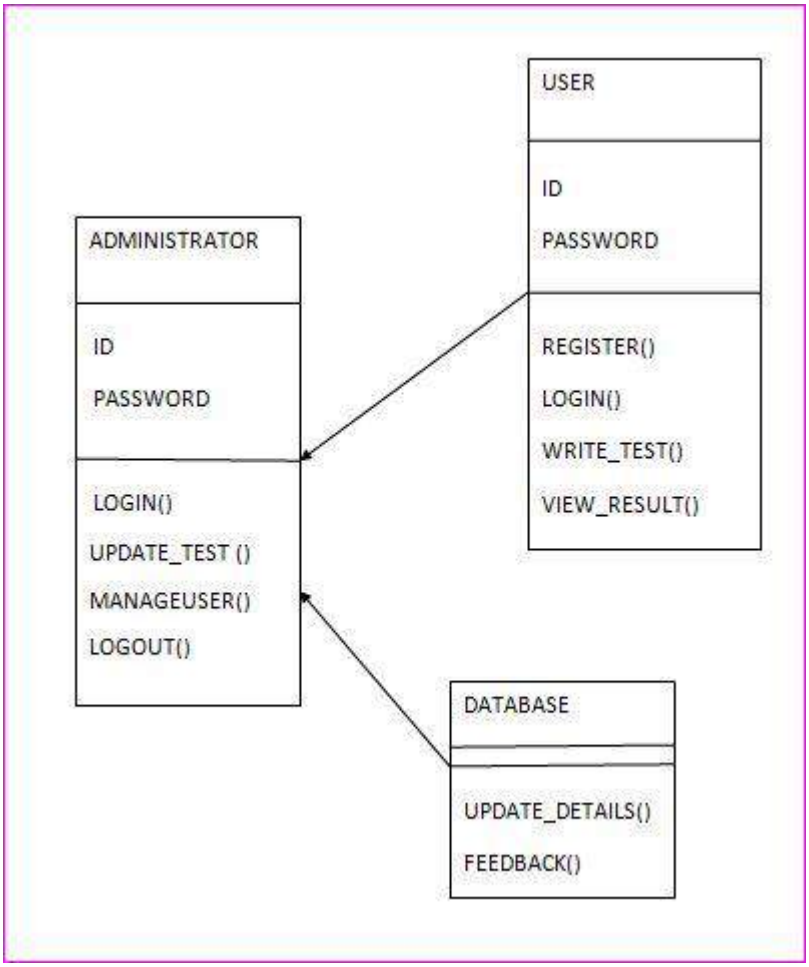
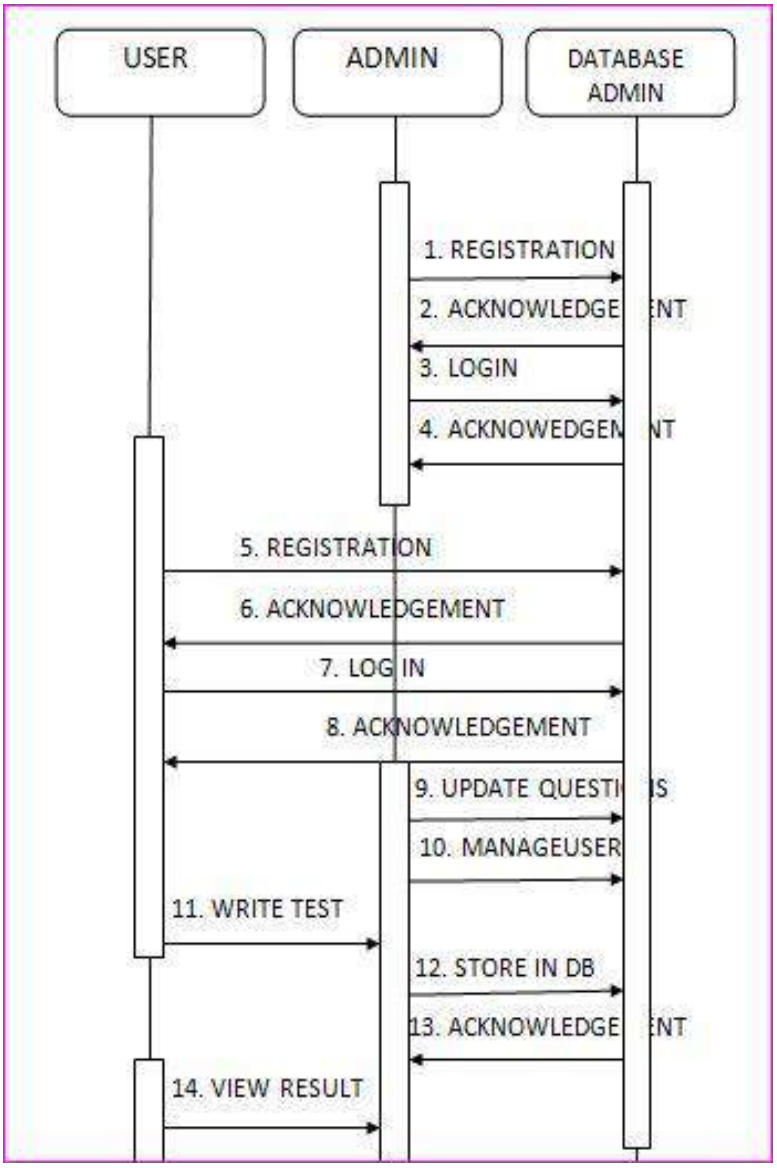


Fig 3.4: Class Diagram for Administrator and User for Online Examination System

3.5 SEQUENCE DIAGRAM

A sequence diagram shows, as parallel vertical lines (lifelines), different processes or objects that live simultaneously, and, as horizontal arrows, the messages exchanged between them, in the order in which they occur. This allows the specification of simple runtime scenarios in a graphical manner. The project sequence diagram as shown in figure 3.5



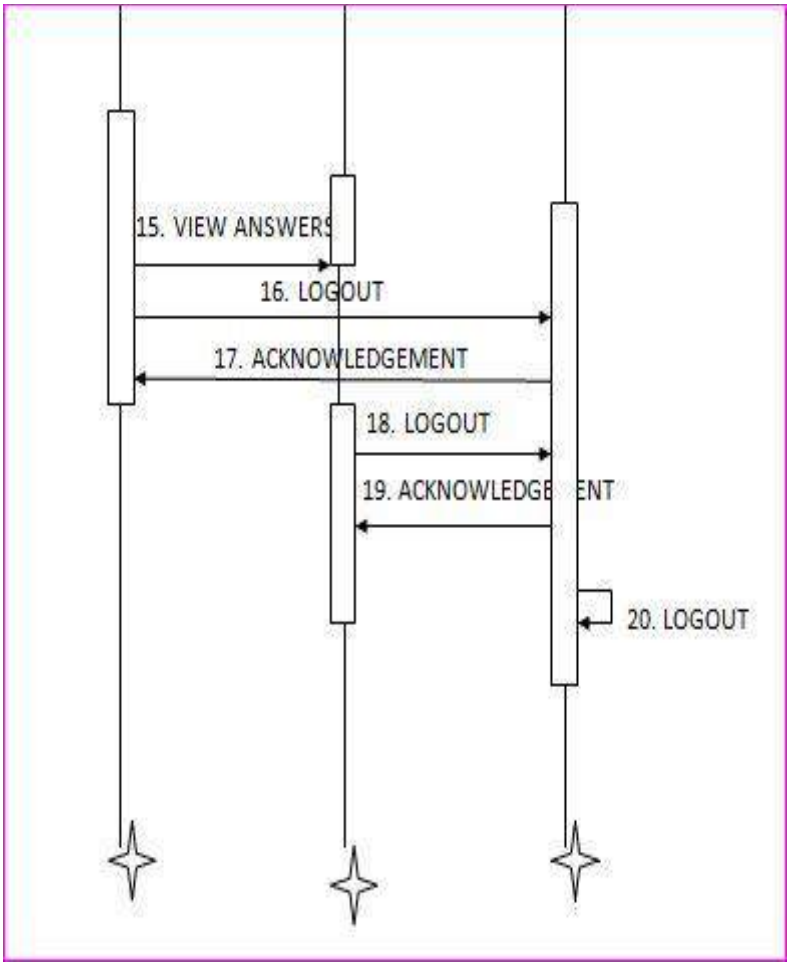


Fig 3.5: Sequence Diagram for Online Examination System

3.6 ACTIVITY DIAGRAM

An activity diagram visually presents a series of actions or flow of control in a system similar to a flowchart or a data flow diagram. Activity diagrams are often used in business process modelling. They can also describe the steps in a use case diagram. Activities modelled can be sequential and concurrent. In both cases an activity diagram will have a beginning (an initial state) and an end (a final state). The project activity diagram as shown in figure 3.6

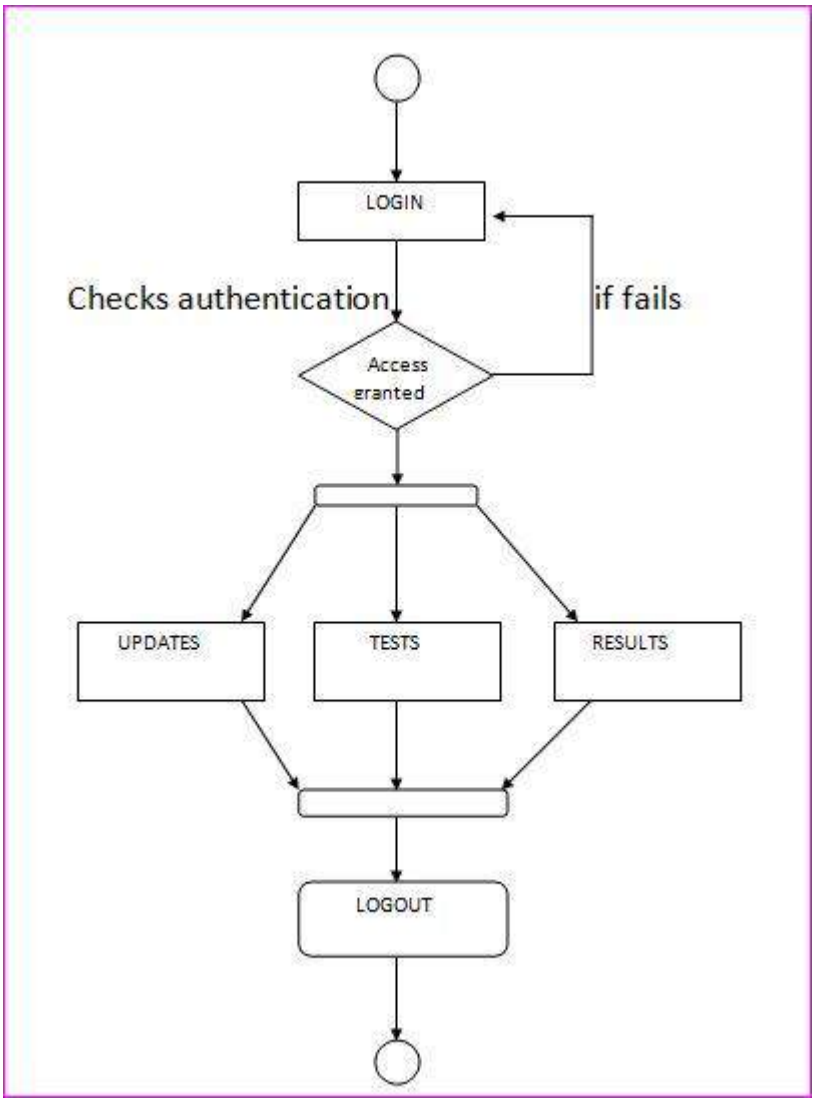


Fig 3.6: Activity Diagram for Admin for Online Examination System

4. IMPLEMENTATION

4. IMPLEMENTATION

4.1 SAMPLE CODE:

The implementation code for this project is as follows;

```
<!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'>
<?php if(@$_GET['w'])
{echo'<script>alert('".@$_GET['w']."');</script>';}
?>
<script>
function validateForm() {var y = document.forms["form"]["name"].value;  var letters = /^[A-Za-z]+$/;if (y == null || y == "") {alert("Name must be filled out.");return false;}var z =document.forms["form"]["college"].value;if (z == null || z == "") {alert("college must be filled out.");return false;}var x = document.forms["form"]["email"].value;var atpos = x.indexOf("@");
var dotpos = x.lastIndexOf(".");if (atpos<1 || dotpos<atpos+2 || dotpos+2>=x.length) {alert("Not a valid e-mail address.");return false;}var a = document.forms["form"]["password"].value;if(a == null || a == ""){alert("Password must be filled out");return false;}if(a.length<5 || a.length>25){alert("Passwords must be 5 to 25 characters long.");return false;}
var b = document.forms["form"]["cpassword"].value;if (a!=b){alert("Passwords must match.");return false;}}
</script>
```

```
</head>

<body>
<div class="header">
<div class="row">
<div class="col-lg-6">
<span class="logo">Test Your Skill</span></div>
<div class="col-md-2 col-md-offset-4">
<a href="#" class="pull-right btn sub1" data-toggle="modal" data-target="#myModal"><span class="glyphicon glyphicon-log-in" aria-hidden="true"></span> <span class="title1"><b>Signin</b></span></a></div>
<!--sign in modal start-->
<div class="modal fade" id="myModal">
  <div class="modal-dialog">
    <div class="modal-content title1">
      <div class="modal-header">
        <button type="button" class="close" data-dismiss="modal" aria-label="Close"><span aria-hidden="true">&times;</span></button>
        <h4 class="modal-title title1"><span style="color:orange">Log In</span></h4>
      </div>
      <div class="modal-body">
        <form class="form-horizontal" action="login.php?q=index.php" method="POST">

<fieldset>
<!-- Text input-->
<div class="form-group">
  <label class="col-md-3 control-label" for="email"></label>
  <div class="col-md-6">
  <input id="email" name="email" placeholder="Enter your email-id" class="form-control input-md" type="email">

 </div>
```

```
</div>

<!-- Password input-->
<div class="form-group">
  <label class="col-md-3 control-label" for="password"></label>
  <div class="col-md-6">
    <input id="password" name="password" placeholder="Enter your Password" class="form-control input-md" type="password">

  </div>
</div>

      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-default" data-dismiss="modal">Close</button>
        <button type="submit" class="btn btn-primary">Log in</button>
</fieldset>
</form>
      </div>
    </div><!-- /.modal-content -->
  </div><!-- /.modal-dialog -->
</div><!-- /.modal -->
<!--sign in modal closed-->

</div><!--header row closed-->
</div>
<div class="bg1">
<div class="row">
<div class="col-md-7"></div>
<div class="col-md-4 panel">
<!-- sign in form begins -->
  <form class="form-horizontal" name="form" action="sign.php?q=account.php" onSubmit="return validateForm()" method="POST">
<fieldset>
<!-- Text input-->

<div class="form-group"> <label class="col-md-12 control-label" for="name"></label>  <div class="col-md-12">
```

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

  </div>
</div>

<!-- Text input-->
<div class="form-group">
  <label class="col-md-12 control-label" for="gender"></label>
  <div class="col-md-12">
    <select id="gender" name="gender" placeholder="Enter your gender"
class="form-control input-md" >
   <option value="Male">Select Gender</option>
  <option value="M">Male</option>
  <option value="F">Female</option> </select>
  </div>
</div>

<!-- Text input-->
<div class="form-group">
  <label class="col-md-12 control-label" for="name"></label>
  <div class="col-md-12">
  <input id="college" name="college" placeholder="Enter your college name"
class="form-control input-md" type="text">
     </div></div>

<!-- Text input-->

<div class="form-group">

  <label class="col-md-12 control-label title1" for="email"></label>
  <div class="col-md-12">
    <input id="email" name="email" placeholder="Enter your email-id"
class="form-control input-md" type="email">

  </div>
</div>
<!-- Text input-->

<div class="form-group">
```

```
  <label class="col-md-12 control-label" for="mob"></label>
  <div class="col-md-12">
  <input id="mob" name="mob" placeholder="Enter your mobile number" class="form-control input-md" type="number">

  </div>
</div>


<!-- Text input-->
<div class="form-group">
  <label class="col-md-12 control-label" for="password"></label>
  <div class="col-md-12">
    <input id="password" name="password" placeholder="Enter your password" class="form-control input-md" type="password">

  </div>
</div>

<div class="form-group">
  <label class="col-md-12control-label" for="cpassword"></label>
  <div class="col-md-12">
    <input id="cpassword" name="cpassword" placeholder="Conform Password" class="form-control input-md" type="password">
     </div></div>

<?php if(@$_GET['q7'])
{ echo'<p style="color:red;font-size:15px;">'.@$_GET['q7'];}?>
<!-- Button -->
<div class="form-group">
  <label class="col-md-12 control-label" for=""></label>
  <div class="col-md-12">
    <input  type="submit" class="sub" value="sign up" class="btn btn-primary"/>
  </div>
</div></fieldset>

</form>

</div><!--col-md-6 end-->
```

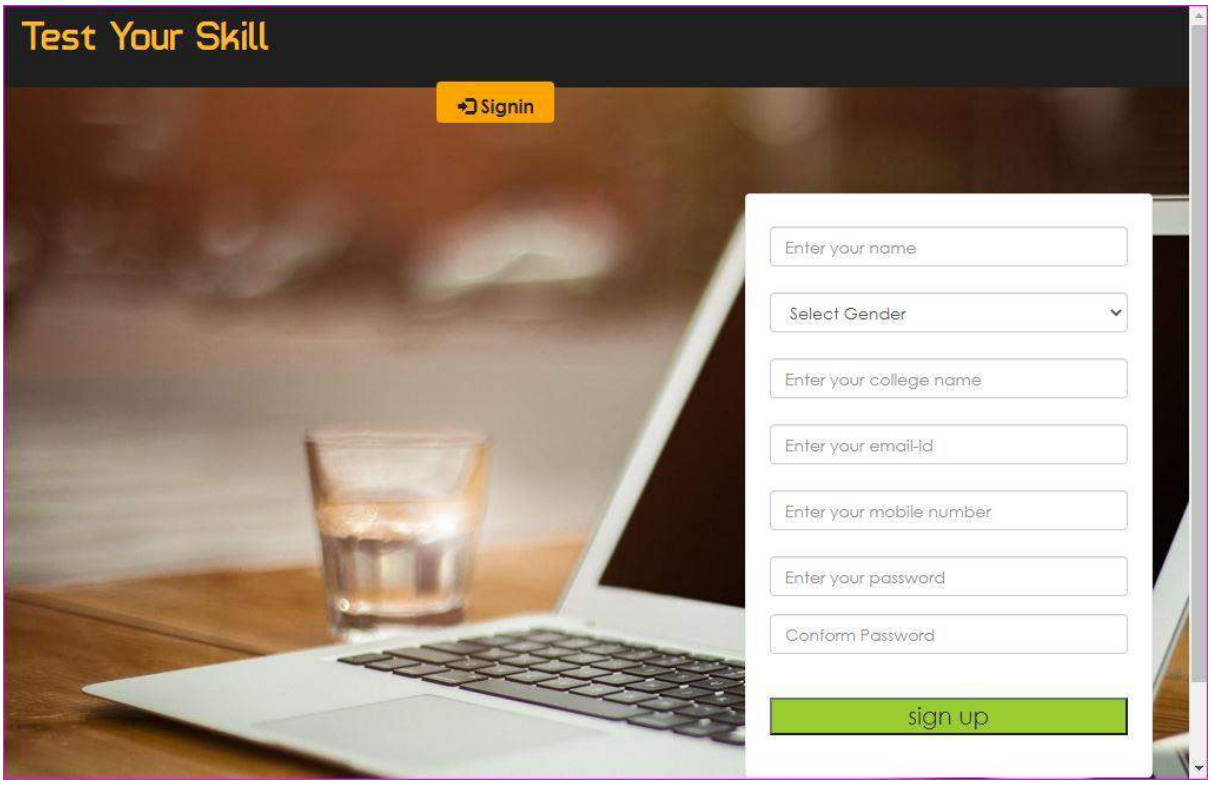
```
</div></div>
</div><!--container end-->

<!--Footer start-->
<div class="row footer">
<div class="col-md-3 box">
<a href="http://www.projectworlds/online-examination" target="_blank">About us</a>
</div>
<div class="col-md-3 box">
<a href="#" data-toggle="modal" data-target="#login">Admin Login</a></div>
<div class="col-md-3 box">
<a href="#" data-toggle="modal" data-target="#developers">Developers</a>
</div>
<div class="col-md-3 box">
<a href="feedback.php" target="_blank">Feedback</a></div></div>
<!-- Modal For Developers-->
<div class="modal fade title1" id="developers">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">
        <button type="button" class="close" data-dismiss="modal"><span aria-hidden="true">&times;</span><span class="sr-only">Close</span></button>
<h4 class="modal-title" style="font-family:'typo' "><span style="color:orange">Developers</span></h4>

     </div><div class="modal-body">

       <p>

<div class="row">
<div class="col-md-4">
 <img src="image/CAM00121.jpg" width=100 height=100 alt="Sunny Prakash Tiwari" class="img-rounded">
 </div>
 <div class="col-md-5">
<a href="http://yugeshverma.blogspot.in" style="color:#202020; font-family:'typo' ; font-size:18px" title="Find on Facebook">Yugesh Verma</a>
```

```
<h4 style="color:#202020; font-family:'typo' ;font-size:16px" class="title1">+91 9165063741</h4>
<h4 style="font-family:'typo' ">vermayugesh323@gmail.com</h4>
<h4 style="font-family:'typo' ">Chhattishgarh insitute of management & Technology ,bhilai</h4></div></div>
</p>
    </div>

  </div><!-- /.modal-content -->
 </div><!-- /.modal-dialog -->
</div><!-- /.modal -->

<!--Modal for admin login-->
 <div class="modal fade" id="login">
  <div class="modal-dialog">
   <div class="modal-content">
    <div class="modal-header">
     <button type="button" class="close" data-dismiss="modal"><span aria-hidden="true">&times;</span><span class="sr-only">Close</span></button>
     <h4 class="modal-title"><span style="color:orange;font-family:'typo' ">LOGIN</span></h4>
    </div>
    <div class="modal-body title1">
<div class="row"><div class="col-md-3"></div>

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

<form role="form" method="post" action="admin.php?q=index.php">

<div class="form-group">

<input type="text" name="uname" maxlength="20"  placeholder="Admin user id" class="form-control"/>
</div>
<div class="form-group">
<input type="password" name="password" maxlength="15" placeholder="Password" class="form-control"/>
</div>
<div class="form-group" align="center">
```

```
<input type="submit" name="login" value="Login" class="btn btn-primary" />
</div>
</form>
</div><div class="col-md-3"></div></div>
     </div>
     <!--<div class="modal-footer">
       <button type="button" class="btn btn-default" data-
dismiss="modal">Close</button>
     </div>-->
   </div><!-- /.modal-content -->
  </div><!-- /.modal-dialog -->
</div><!-- /.modal -->
<!--footer end-->


</body>
</html>
```

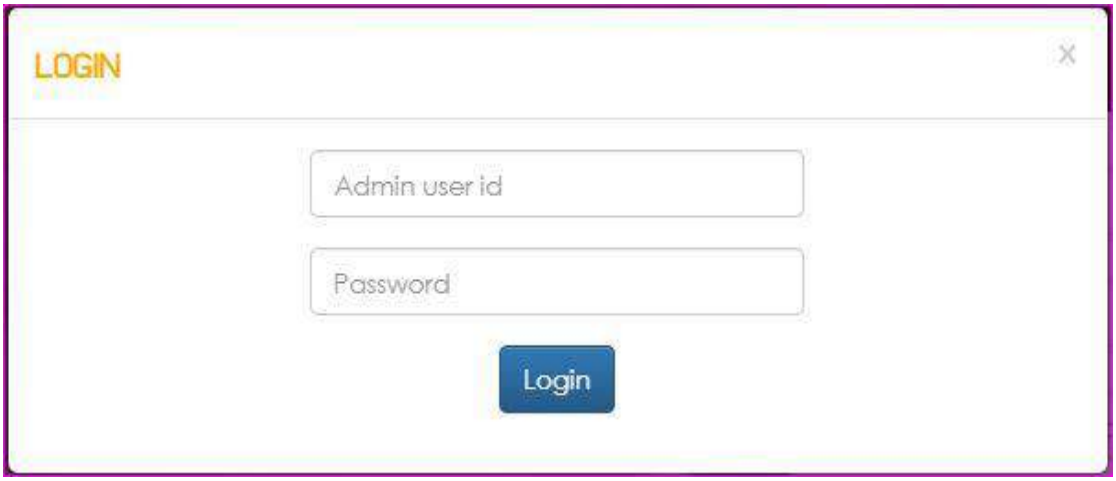
5. SCREENSHOTS

5.1 SIGN-UP PAGE



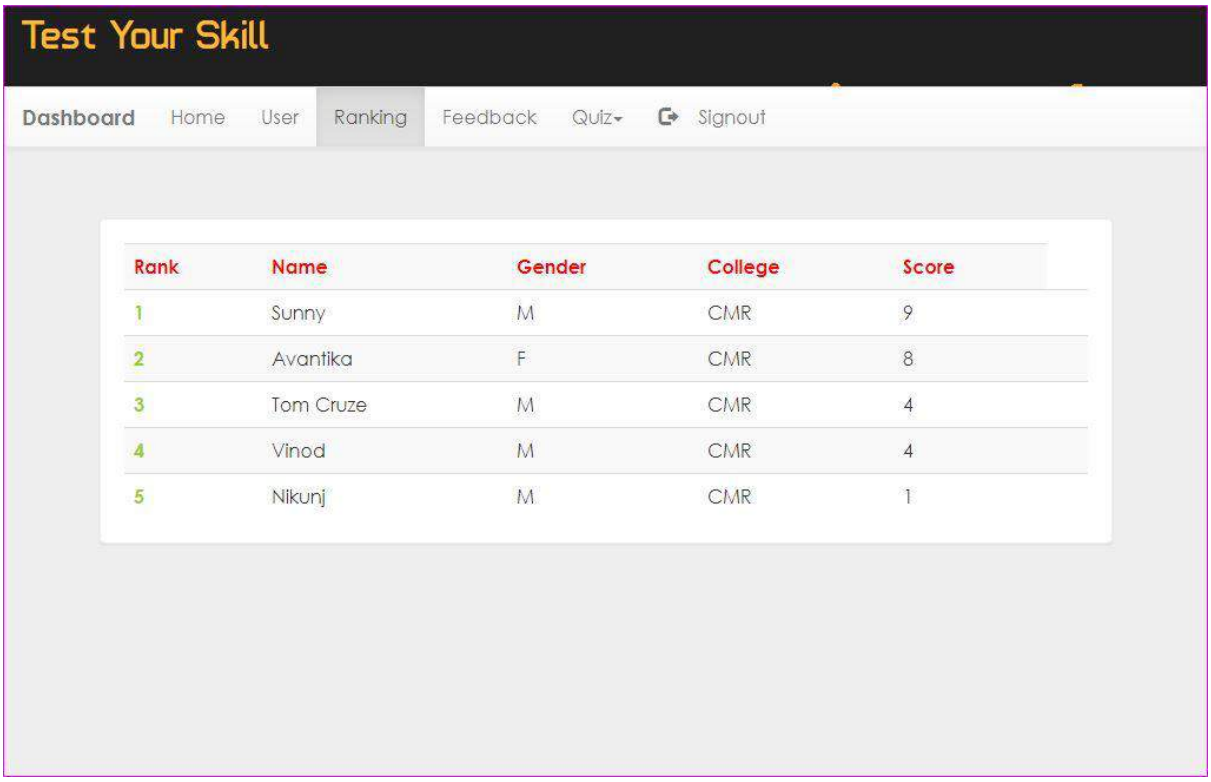
Screenshot 5.1: Sign-up page of Online Examination System

5.2 ADMIN LOGIN PAGE



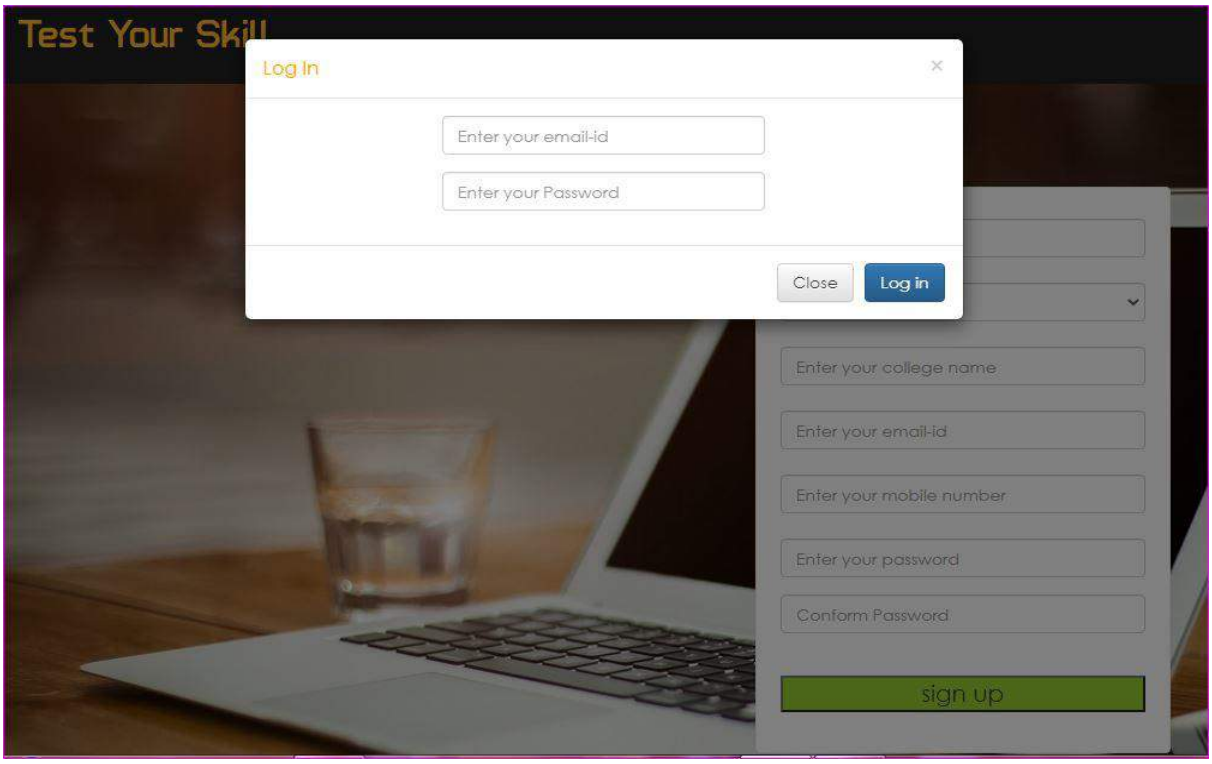
Screenshot 5.2: Admin login page of Online Examination System

5.3 ADMIN ACTIVITY PAGE



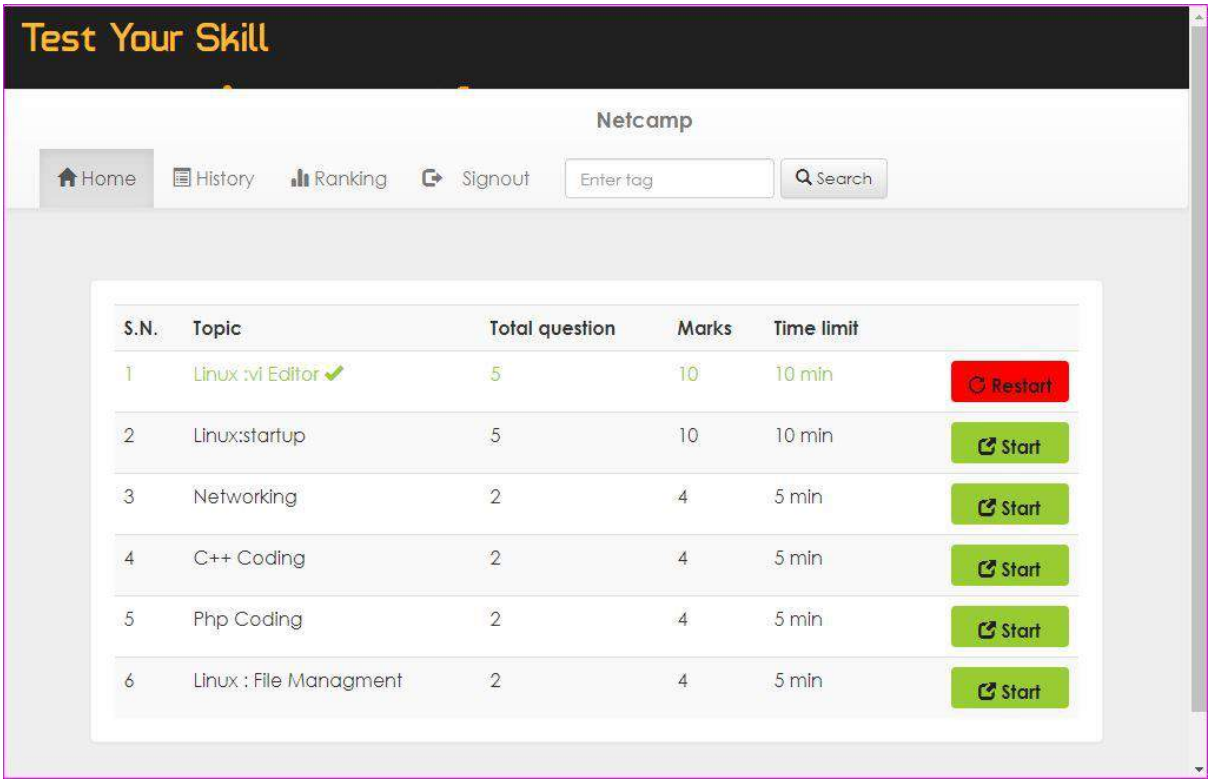
Screenshot 5.3: Admin Activity page of Online Examination System

5.4 USER LOGIN PAGE



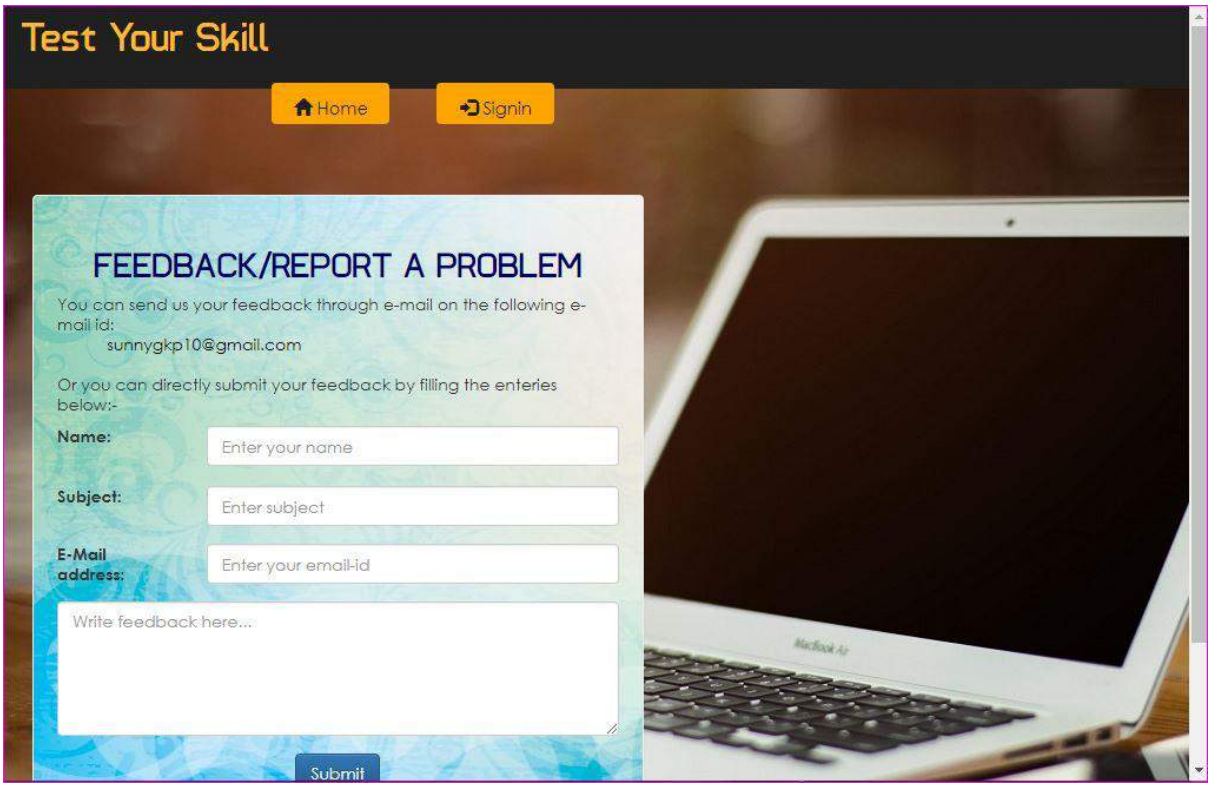
Screenshot 5.4: User login page of Online Examination System

5.5 USER ACTIVITY PAGE



Screenshot 5.5: User Activity page of Online Examination System

5.6 FEEDBACK PAGE



Screenshot 5.2: Feedback page of Online Examination System

6. TESTING

6. TESTING

6.1 INTRODUCTION TO TESTING

The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components, subassemblies, assemblies and/or a finished product. It is the process of exercising software with the intent of ensuring that the Software system meets its requirements and user expectations and does not fail in an unacceptable manner. There are various types of test. Each test type addresses a specific testing requirement.

6.2 TYPES OF TESTING

6.2.1 UNIT TESTING

Unit testing involves the design of test cases that validate that the internal program logic is functioning properly, and that program inputs produce valid outputs. All decision branches and internal code flow should be validated. It is the testing of individual software units of the application .it is done after the completion of an individual unit before integration. This is a structural testing, that relies on knowledge of its construction and is invasive. Unit tests perform basic tests at component level and test a specific business process, application, and/or system configuration. Unit tests ensure that each unique path of a business process performs accurately to the documented specifications and contains clearly defined inputs and expected results.

6.2.2 INTEGRATION TESTING

Integration tests are designed to test integrated software components to determine if they actually run as one program. Testing is event driven and is more concerned with the basic outcome of screens or fields. Integration tests demonstrate that although the components were individually satisfaction, as

shown by successfully unit testing, the combination of components is correct and consistent. Integration testing is specifically aimed at exposing the problems that arise from the combination of components.

6.2.3 FUNCTIONAL TESTING

Functional tests provide systematic demonstrations that functions tested are available as specified by the business and technical requirements, system documentation, and user manuals.

Functional testing is centred on the following items:

Valid Input : Identified classes of valid input must be accepted.

Invalid Input : Identified classes of invalid input must be rejected.

Functions : Identified functions must be exercised.

Output : Identified classes of application outputs must be exercised.

Systems/Procedures: interfacing systems or procedures must be invoked.

Organization and preparation of functional tests is focused on requirements, key functions, or special test cases. In addition, systematic coverage pertaining to identify Business process flows; data fields, predefined processes.

6.3 TEST CASES

6.3.1 NEW USER ID CREATION

Test case ID	Test case name	Purpose	Test Case	Output
1	New User ID1 creation	Creating a User ID1 for a user	The user gives the input of his personal details including the desired username and chosen password	User ID1 for the user has been successfully Created
2	New User ID2 creation	Creating a User ID2 for a user	The user gives the input of his personal details including the desired username and chosen password	User ID2 for the user has been successfully Created
3	New User ID3 creation	Creating a User ID3 for a user	The user gives the input of his personal details including the desired username and chosen password	User ID3 for the user has been successfully Created

6.3.2 LOGIN PAGE

Test case ID	Test case name	Purpose	Input	Output
1	Login in page	To check if the login page performs its task	The username1 and the password of a registered user	Client Home Page

2	Login in page	To check if the login page performs its task	Incorrect username and the password of a registered user	The entered username or password is invalid
3	Login in page	To check if the login page performs its task	The username and the password of a unregistered user	The entered username or password is invalid

6.3.3 ADMINISTRATOR LOGIN

Test case ID	Test case name	Purpose	Input	Output
1	Administrator Login	To verify the Administrator Page	The already allocated username1 and password for the Admin	Display admin control panel
2	Administrator Login	To verify the Administrator Page	The misallocated username and password for the Admin	The entered username or password is invalid
3	Administrator Login	To verify the Administrator Page	The already allocated username3 and incorrect password for the Admin	The entered username or password is invalid

7. CONCLUSION

7. CONCLUSION & FUTURE ENHANCEMENTS

7.1 PROJECT CONCLUSION

This system designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project.

- Automation of the entire system improves the efficiency
- It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the delay in communications.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.
- The System has adequate scope for modification in future if it is necessary.

7.2 FUTURE ENHANCEMENTS

This application avoids the manual work and the problems concern with it. It is an easy way to obtain the information regarding the different scheduled examinations information that is currently issued. Well I and my team members have worked hard in order to present an improved website better than the existing one's regarding the information about the various activities. Still, we found out that the project can be done in a better way. Primarily, when we request information about a particular schedules it just shows the exam date and platform. So, after getting the information we can get access to the online exam. The enhancement that we can add the searching option. We can directly search to the particular student details from this site.

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INTERNATIONAL JOURNAL OF TECHO-ENGINEERING

ISSN : 0975-4520

ONLINE EXAMINATION SYSTEM

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Abstract:

Now-a-days, online examination softwares are becoming most popular. The main objective of this Online Examination System project in PHP is to eliminate the processing work which is being done manually. By the help of online examination system software any exam can be conducted without the need of paper and pen. It will also help the appearing candidates to get their result in short interval of time or just after completing their exams. Providing exam results is totally depending on the admin choice. If admin will configure system to display result just after completing the exam, then it will display it otherwise admin can configure the system, to display the result on particular date. It will help the universities, colleges and other institutions to take exam with low cost and less effort..

Keywords—Online Examination, PHP, Results, Admin, User.

I 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. Almost all organizations today, are managing their exams by online examination system, since it reduces student's time in examinations. Organizations can also easily monitor the progress of the student that they give through an examination[1]. 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

ISSN : 0975-4520

reports. Online examination system helps the educational institutions to monitor their students and keep eyes on their progress. The best use of this system in Scholastic Institute and training centres because it helps in managing the exams and get the results in easy and an efficient manner. Until today the preparing for exams and preparing the results was performed manually, this required more time to complete[2]. Universities are developing extensive online offerings to grow their international loads and facilitate the massification of higher learning. These protocols, informed by growing policy targets to educate a larger quantity of graduates, have challenged traditional university models of fully on-campus student attendance. The development of online examination software has offered a systematic and technological alternative to the end-of-course summative examination designed for final authentication and testing of student knowledge retention, application, and extension. As a result of the COVID-19 pandemic, the initial response in higher education across many countries was to postpone examinations. However, as the pandemic continued, the need to move to either an online examination format or alternative assessment became more urgent. This paper is a timely exploration of the contemporary literature related to online examinations in the university setting, with the hopes to consolidate information on this relatively new pedagogy in higher education. This paper begins with a brief background of traditional examinations, as the assumptions applied in many online examination environments build on the techniques and assumptions of the traditional face-to-face gymnasium-housed invigilated examinations. This is followed by a summary of the systematic review method, including search strategy, procedure, quality review, analysis, and summary of the sample.

Print-based educational examinations designed to test knowledge have existed for hundreds of years. The New York State Education Department has “the oldest educational testing service in the United States” and has been delivering entrance examinations since 1865. In pre-Revolution Russia, it was not possible to obtain a diploma to enter university without passing a high-stakes graduation examinations. These high school examinations assessed and

ISSN : 0975-4520

assured learning of students in rigid and high-security conditions. Under traditional classroom conditions, these were likely a reasonable practice to validate knowledge. The discussion of authenticating learning was not a consideration at this stage, as students were face to face only. For many high school jurisdictions, these are designed to strengthen the accountability of teachers and assess student performance.

II. LITERATURE SURVEY

Hongmei Nie Math, Physics and Information Engineering College Online examination is the crucial parts among online education. It is efficient and fast enough and reduces the large amount of material resources. Examination system is developed based on web. This paper describes the principle of the designed system, that presents the main functions of the system, analyzes the algorithm of auto- generating test paper,and discusses the security of the system.

Nor Shahida bt Mohd Jamail Abu Bakar Md Sultan Faculty of Computer Science and Technology, Selangor, Malaysia Examination process is important activities for institutions to evaluate student's performance. Thus the quality of the exam questions would determine the quality of the students produced by the institutions, also preparing exam questions is challenges, tedious and time consuming for the instructors. Current technologies help instructors to store the questions banks in computer databases. The issue arise is how the current technologies would also help the instructors to auto generate the different sets of questions from time to time without concern about repetition and duplication from the pass exam while the exam bank growing.

Guzman and Conejo (2005) proposed an online examination system called System of Intelligent Evaluation using Tests for Tele-education (SIETTE). SIETTE is a web-based environment to generate and construct adaptive tests. It can be used for instructional objectives, via combining adaptive student self-assessment test questions with hints and feedback. SIETTE supports secure login and portability features. On the other hand, the other features: resumption capability, multi-instructor,random question selection, random questions distribution and random choices distribution are missing[3]. EMS :Rashad Et. Al. (2010) proposed a web-based online examination system

ISSN : 0975-4520

called Exam Management System (EMS). EMS manages the examination and auto-grading for students exams and supports conducting exams, collects the answers, auto mark the submissions, and produce the reports for the test. EMS supports secure login, multi-instructor, and portability features. However, the other features: resumption capability, random question selection, random questions distribution, and random choices distribution are missing[4]. ArvindSingh,NirajShirke,KiranShette 2011:The project evaluates the examiners by using the online examination system concept. The exams will be totally customizable. This system will check results automatically basing on students answers. CBTS :Fagbola et. al. (2013) developed a Computer Based Test System (CBTS). CBTS is a web-based online examination system developed to address issues such as lack of timing flexibility for automation candidates log-off upon expiration of allowed time, result integrity, guaranty, stand-alone deployment, need for flexibility, robustness, designed to support the examination processes and overcome challenges framing the conduct of examination, auto- marking, auto- submission , and generation report of examination result[3].

III. PROPOSED METHODOLOGY

It is web based platform that can be used by Admin at any remote location. The Administrator of the system has authority to propose tests or papers. It is cost effective and time effective. The candidate can login through proposed computer with their Enrolment. Candidate can give their course's examination in a specific duration and specific number of questions. The questions can be appearing in mode MCQ (Multiple Choice Questions). The objective of the Online Examination System is to provide correction, display the result immediately and also store it in database. This application provides the administrator with a facility to add new exams. The main feature of this project is to reduce the time of conducting, paper evaluation, and publishing results of students. It also avoids the physical contact

(maintains social distance) in pandemic time. System Analysis is the important phase in the system development process.

The system is studied to the minute details. The system analyst plays an important role of an interrogator and

ISSN : 0975-4520

dwells deep into the working of the present system. In analysis, a detailed study of these operations performed by the system and their relationships within and outside the system is done. A key question considered here is, “what must be done to solve the problem?” The system is viewed as a whole and the inputs to the system are identified. Once analysis is completed the analyst has a firm understanding of what is to be done. A detailed study of the process must be made by various techniques like interviews, questionnaires etc. The data collected by these sources must be scrutinized to arrive to a conclusion. The conclusion is an understanding of how the system functions. This system is called the existing system. Now the existing system is subjected to close study and problem areas are identified. The designer now functions as a problem solver and tries to sort out the difficulties that the enterprise faces. The solutions are given as proposals. The proposal is then weighed with the existing system analytically and the best one is selected. The proposal is presented to the user for an endorsement by the user. The proposal is reviewed on user request and suitable changes are made. This is loop that ends as soon as the user is satisfied with proposal.

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.

This application is used to conduct online examination. The students can sit at individual terminals and login to write the exam in the given duration. The questions have to be given to the students. This application will perform correction, display the result immediately and also store it in database. This application provides the administrator with a facility to add new exams. This application provides the Instructor add questions to the exam, modify questions in the exam in a particular exam. This application takes care of authentication of the administrator, Instructor as well as the student.

ISSN : 0975-4520

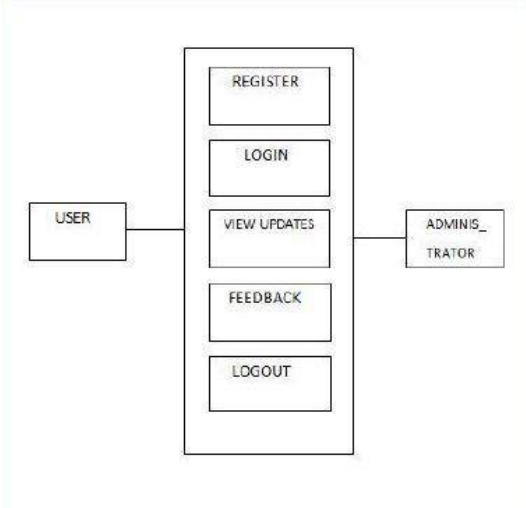

Fig 1: Project Architecture

IV RESULT ANALYSIS

MODULES DESCRIPTION

This system consists of two modules. Those are

- ADMIN MODULE
- USER MODULE

ADMIN MODULE

Actions under Admin module are

1. Register
2. Login
3. Modification of Student details
4. Modification of exam questions
5. Logout

USER MODULE

Actions under User module

1. Register
2. Login
3. Take exam
4. See result

5. Logout

Fig 2: Sign up page for online exam

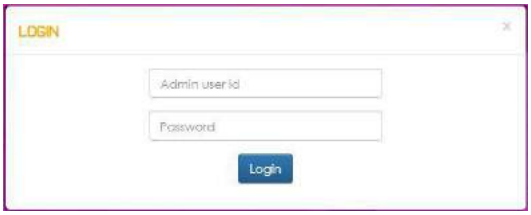

Fig 3: Admin login page

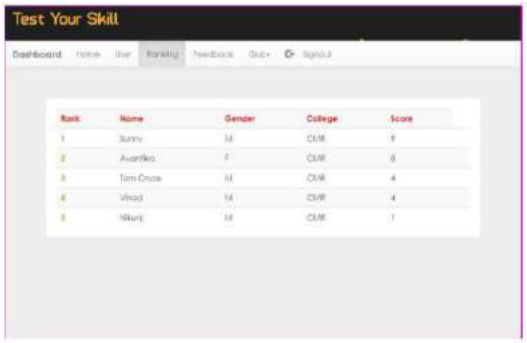

Fig 4 : Admin Activities

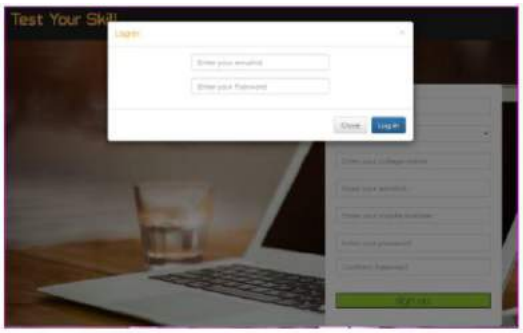

Fig 5 : User login

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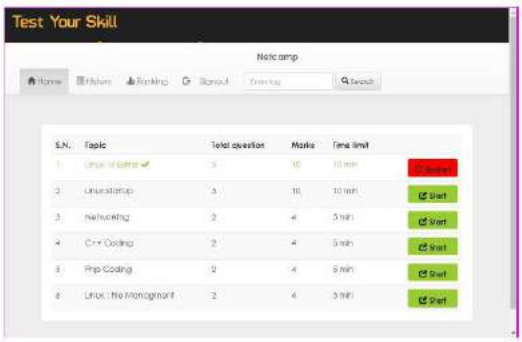

Fig 6 : User Activity page for testing skills

V CONCLUSION

This system designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project. Automation of the entire system improves the efficiency. It provides a friendly graphical user interface which proves to be better. when compared to the existing system. It gives appropriate access to the authorized users depending on their permissions.

- It effectively overcomes the delay in communications.
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ISSN : 0975-4520

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INTERNATIONAL JOURNAL OF TECHO-ENGINEERING

International Journal of Techno-Engineering (IJTE)

UGC APPROVED - ESTD Year: 2009

ISSN NO : 0975-4520 | web : http://ijte.uk | e-mail : ijte@gmail.com

CERTIFICATION OF PUBLICATION

This is to certify that the paper entitled

"ONLINE EXAMINATION SYSTEM"

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Has been published in

IJTE JOURNAL, VOLUME XII, ISSUE II, JUNE 2021

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INTERNATIONAL JOURNAL OF TECHO-ENGINEERING

International Journal of Techno-Engineering (IJTE)

UGC APPROVED - ESTD Year: 2009

ISSN NO : 0975-4520 | web : http://ijte.uk | e-mail : ijte@gmail.com

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This is to certify that the paper entitled

"ONLINE EXAMINATION SYSTEM"

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Has been published in

IJTE JOURNAL, VOLUME XII, ISSUE II, JUNE 2021

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