VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi – 590018.

MINI PROJECT REPORT

ON

"Online Course Recommendation"

Submitted in partial fulfillment for the requirement of 5th semester for the

Degree of Bachelor of Engineering in

INFORMATION SCIENCE & ENGINEERING

For the academic year 2021-22

SUBMITTED BY:

Varun K S [1DB19IS101]

Under the guidance of:

Mr. Basavaraj Neelagund &

Mrs. Rohini B.R

Assistant Professor,

Dept. of ISE

Department of Information Science and Engineering

DON BOSCO INSTITUTE OF TECHNOLOGY

Kumbalagodu, Bengaluru-560074

DON BOSCO INSTITUTE OF TECHNOLOGY

Kumbalagodu, Bengaluru-560074

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the Mini Project Report entitled **"Online Course Recommendation"** is a bonafide Mini Project work carried out by **Varun K S (1DB19IS101)**, in partial fulfillment of '5th' semester for the Degree of **Bachelor of Engineering in Information Science and Engineering** of Visvesvaraya Technological University, Belgaum, during the academic year 2021-22 . It is certified that allcorrections/suggestions indicated for Internal Assessments have been incorporated with the degree mentioned.

Project Guide	**Head of Department**
Mr. Basavaraj Neelagund	**Prof. Gowramma G S**
Mrs. Rohini B.R	Head of Department
Assistant Professor	Dept. of ISE
Dept. of ISE	DBIT, Bengaluru
DBIT, Bengaluru	

External Viva

Name of the Examiners	Signature with Date
1.	
2.	

ACKNOWLEDGEMENT

At the various stages in making the mini project, a number of people have given me invaluable comment on the manuscript. I take this opportunity to express my deepest gratitude and appreciation to all those who helped me directly or indirectly towards the successful completion of this project.

I would like to thank our Principal **Dr. HEMADRI NAIDU T**, Don Bosco Institute of Technology for his support though out this project.

I express my whole hearted gratitude to **Prof. GOWRAMMA G S**, who is our respectable Head of Dept. of Information Science. I wish to acknowledge for her valuable help and encouragement.

In this regard I owe a heartfelt gratitude to my guide **Mr. Basavaraj Neelagund** and **Mrs.Rohini B.R** Assistant Professor of Department of Information Science and Engineering, for timely advice on the project and regular assistance throughout the project work. I would also like to thank the teaching and non-teaching staff members of Department of Information Science and Engineering for their corporation.

ABSTRACT

The main aim and objective were to plan and program system application. We justify to apply the best software engineering practice for system application. I developed a "Online Course Recommendation " using php and MySQL.

This project provides a platform to store the details of online course websites,url. And in dynamic way of accessing the data of course details,links of websites maintaining in real time basis and upgrading the information.

To know the information of the above mentioned, it is necessary to have a database used to store all these details. This mini project is done to obtain the above statement and update the details in real time. This project also reduces the work of manually storing details and messing up things. And the tools used to design and develop this useful project are mysql for backend and php in frontend. This mini project is an excellent solution for free online courses. This solution helps to identify the user and manage the time.

Table Of Contents

List of Figures

CHAPTER 1

INTRODUCTION

Online course recommendation developed using php is an excellent solution for online courses with a large platform. This solution helps to identify the course easily.

In its working, each user is getting detailed data which is valid for a fixed time, or for a particular period of time, or a combination of the two, totally based on the time.

1.1 Aim

The main aim of designing this project is to get rid from manual entry and record system and try to give easy and simple database management system for online courses.

1.2 Objective

The main objective of this DBMS mini project is to construct good quality and dynamic management system, in which this database is used to store the details of gyms, payment areas, members and trainers.

1.3 Scope

The software product "**Online Course Recommendation**" will be an application that will be Used for maintaining the records in an organized manner and to replace old paper work system. This project aims at automating the gym related details for smooth working of the database by automating almost all the activities.

Update and modifications will be easily achievable and all the calculations and accounting work will be accurate.

1.4 ADVANTAGES and LIMITATIONS

1.4.1 Advantages

This Project is beneficial for the following

1.1. User has complete control as it provides and accepts only appropriate and valid data.

1.2. Addition, deletion, modification of records as when needed.

1.3. Decreases the paper and labor work.

1.4. Manage the entire process.

1.5. User-friendly error messages are provided wherever necessary.

1.4.2 Limitations

2.1. It's too tiring to give Computerized Timing.

2.2. Security Limitations.

CHAPTER 2

SYSTEM REQUIREMENT

2.1 Software Requirements

Operating System : The Xampp can be installed on the following platforms :Windows XP,7,8,8.1,10

Xampp : xampp can be installed from xampp.org, vs code is required for frontend and running the file .Prior to installing the latest Windows service packs and critical updates have to be updated.

MySQL : MySQL can be downloaded and installed from mysql.com

2.2 Hardware Requirements

- Computer with a 1.1 GHz or faster processor
- Minimum 2GB of RAM or more
- 2.5 GB of available hard-disk space
- 5400 RPM hard drive
- 1366 × 768 or higher-resolution display
- DVD-ROM drive

CHAPTER 3

DESIGN

3.1 Entity-Relationship diagram

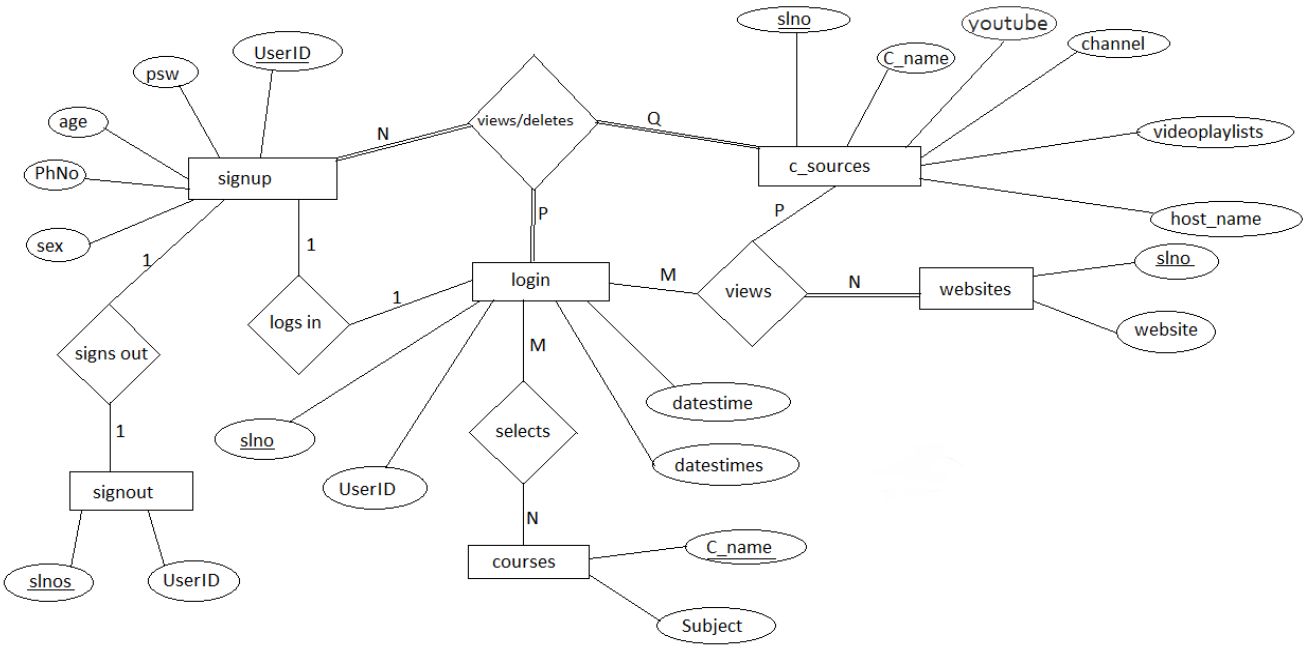


figure shows the representation of ER diagram of Online Course Recommendation System. It contains the connection i.e., relation between the entities and the participation ratio. And primary key is underlined as we see in figure and foreign keys are the keys that relate to primary key of other table represented by connecting to that table.

CHAPTER 4

IMPLEMENTATION

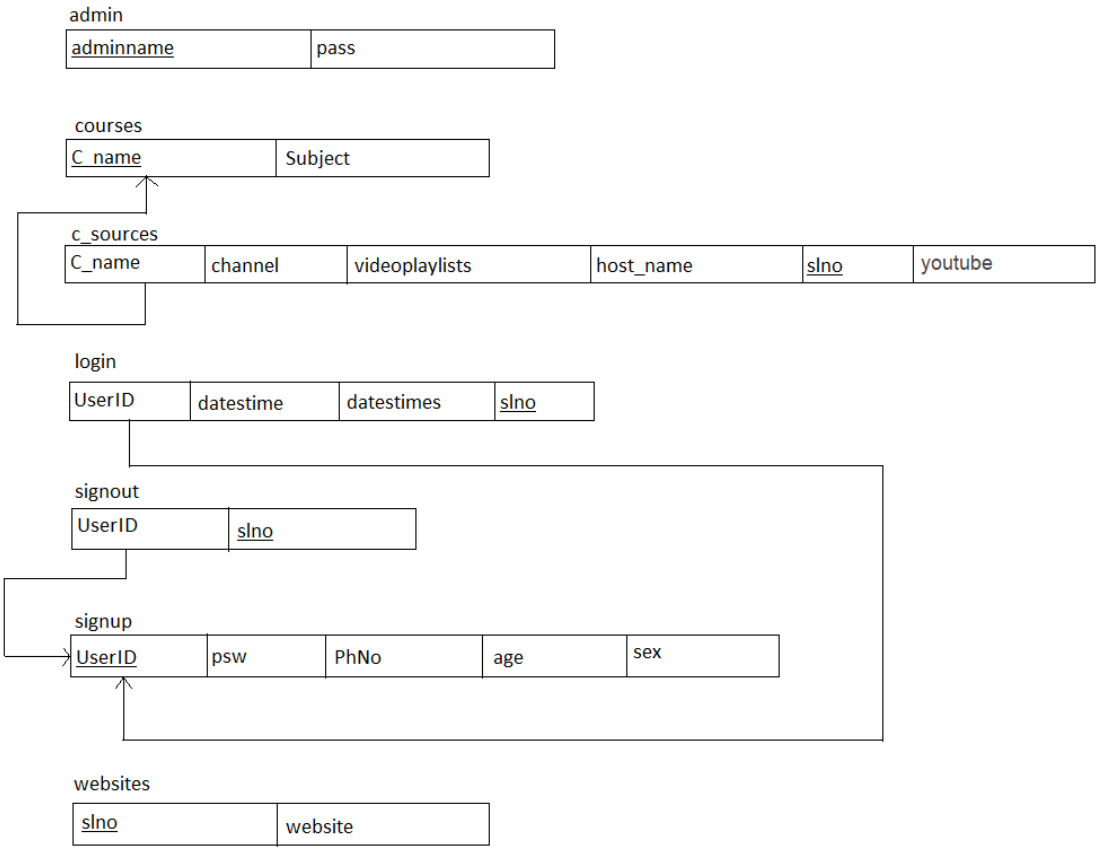


Fig 4.1 SCHEMA DIAGRAM of Online Course Recommendation System.

The figure shows the representation of Schema diagram of Online Course Recommendation System. It contains all the tables used in this mini project and these tables are connected to each other with respect to primary keys and foreign keys. Here primary keys are represented by underlining it and foreign keys are connected to the table of that particular primary key is present.

4.2 Relational Data Base Design

Admin Table:

SL.No	Field_name	Data_Type	Description
1	Admin name	Varchar(100)	Store the admin_name
2	Admin Password	Varchar(15)	Store the admin_password

Course table:

SI No	Field_Name	Data_Type	Description
1	course_name	Varchar(100)	Store course_name
2	subject	Varchar(100)	Store subject

Course sourses table:

Sl.No	Field_Name	Data_Type	Description
1	C_name	Varchar(20)	Store course name
2	channel	Varchar(20)	Store Channel name
3	videoplaylists	Varchar(20)	Store video playlist
4	host_name	Varchar(50)	Store host name
5	Youtube	Varchar(10)	Store youtube links
6	SINO	Int	Store SI number

Login table:

Sl.No	Field_name	Data_Type	Description
1	UserId	int	Store user id
2	datetime	date	Store date in time
3	datetimes	date	Store date our time
4	sIno	int	Store SI No

Equipment Table :

Sl.No	Field_Name	Data_Type	Description
1	sIno	int	Store SI NO
2	Website	Varchar(100)	Store website name
3	link	Varchar(100)	Store website link

4.3 Back End (MySQL) Database:

A Database Management System (DBMS) is computer software designed for the purpose of managing databases, a large set of structured data, and run operations on the data requested by numerous users. Typical examples of DBMSs include Oracle, DB2, Microsoft Access, Microsoft SQL Server, Firebird, PostgreSQL, MySQL, SQLite, FileMaker and Sybase Adaptive Server Enterprise. DBMSs are typically used by Database administrators in the creation of Database systems. Typical examples of DBMS use include accounting, human resources and customer support systems. Originally found only in large companies with the computer hardware needed to support large data sets, DBMSs have more recently emerged as a fairly standard part of any company back office.

- A DBMS is a complex set of software programs that controls the organization, storage, management, and retrieval of data in a database. A DBMS includes:
- A modeling language to define the schema of each database hosted in the DBMS, according to the DBMS data model. The dominant model in use today is the ad hoc one embedded in SQL, despite the objections of purists who believe this model is a corruption of the relational model, since it violates several of its fundamental principles for the sake of practicality and performance. Many DBMSs also support the Open Database Connectivity API that supports a standard way for programmers to access the DBMS.

Data structures (fields, records, files and objects) optimized to deal with very large amounts of data stored on a permanent data storage device (which implies relatively slow access compared to volatile main memory).A database query language and report writer to allow users to interactively interrogate the database, analyze its data and update it according to the users privileges on data.

- Data security prevents unauthorized users from viewing or updating the database. Using passwords, users are allowed access to the entire database or subsets of it called sub schemas. For example, an employee database can contain all the data about an individual employee, but one group of users may be authorized to view only payroll data, while others are allowed access to only work history and student data.

- If the DBMS provides a way to interactively enter and update the database, as well as interrogate it, this capability allows for managing personal databases. However, it may not leave an audit trail of actions or provide the kinds of controls necessary in a multi-user organization. These controls are only available when a set of application programs are customized for each data entry and updating function.

- The DBMS can maintain the integrity of the database by not allowing more than one user to update the same record at the same time. The DBMS can help prevent duplicate records via unique index constraints; for example, no two customers with the same customer numbers (key fields) can be entered into the database. See ACID properties for more information (Redundancy avoidance).

- A transaction mechanism, that ideally would guarantee the ACID properties, in order to ensure data integrity, despite concurrent user accesses (concurrency control), and faults (fault tolerance).
  When a DBMS is used, information systems can be changed much more easily as the organization's information requirements change. to the Organizations may use one kind of DBMS for daily transaction processing and then move the detail onto another computer that uses another DBMS better suited for random inquiries and analysis. Overall systems design decisions are performed by data administrators and systems analysts. Detailed database design is performed by database administrators.

SQL:

Structured Query Language (SQL) is the language used to manipulate relational databases.
SQL is tied very closely with the relational model.
• In the relational model, data is stored in structures called relations or tables.

SQL statements are issued for the purpose of:
• Data definition: Defining tables and structures in the database (DDL used to create, alter and drop schema objects such as tables and indexes)

.

Trigger :

Trigger name: on signedout: register
Time: after Event: delete
Definition: INSERT INTO signoutt VALUES(old.UserID,old.psw,old.PhNo,old.age,old.sex)

CHAPTER-5

ANNEXURE

Insert Code

```
<?php

  $user = 'root';
  $pass = '';
  $db = 'project024';

  $db = new mysqli('localhost',$user,$pass,$db) or die("unable to connect");
  echo "\nconnection established\n";

  if (!mysqli_select_db($db,'project024')) {

                echo "\ndatabase not selected\n";
  }

  $UserID = $_POST['UserID'];
  $PhNo = $_POST['PhNo'];
  $sex = $_POST['sex'];
  $psw = $_POST['psw'];
  $age = $_POST['age'];

  $rs=mysqli_query($db,"select * from signup where UserID='$UserID'");
if (mysqli_num_rows($rs)>0)
{
  echo "\nLogin Id Already Exists....\n";
  header("refresh:1; url=signup.html");
  exit;
}
else{
  echo "\nTrying to create user....\n";
}
$sql="insert into signup(UserID,psw,PhNo,age,sex)
values('$UserID','$psw','$PhNo','$age','$sex')";
if (!mysqli_query($db,$sql))
  {
    echo "\n value couldnt be inserted\n";
    header("refresh:1; url=signup.html");
  }
  else
```

```
{
  echo "\n values inserted\n";
  header("refresh:1; url=login.html");
 }
```

```
?>
```

Delete Code :

```
<?php

$username='root';
$password='';
$db='project024';
$conn=mysqli_connect('localhost',$username,$password,$db);
if(!$conn){
 die('Could not Connect My Sql:' .mysql_error());
}
if (!mysqli_select_db($conn,'project024')) {

    echo "database not selected";
  }

$C_name = $_GET['C_name'];
$query = "DELETE FROM c_sources WHERE C_name = '$C_name'";
$result = mysqli_query($conn, $query);

if(!$result){
        echo "delete data unsuccessfully " . mysqli_error($conn);
        exit;
}
header("Location: courses.php");
```

Display Code:

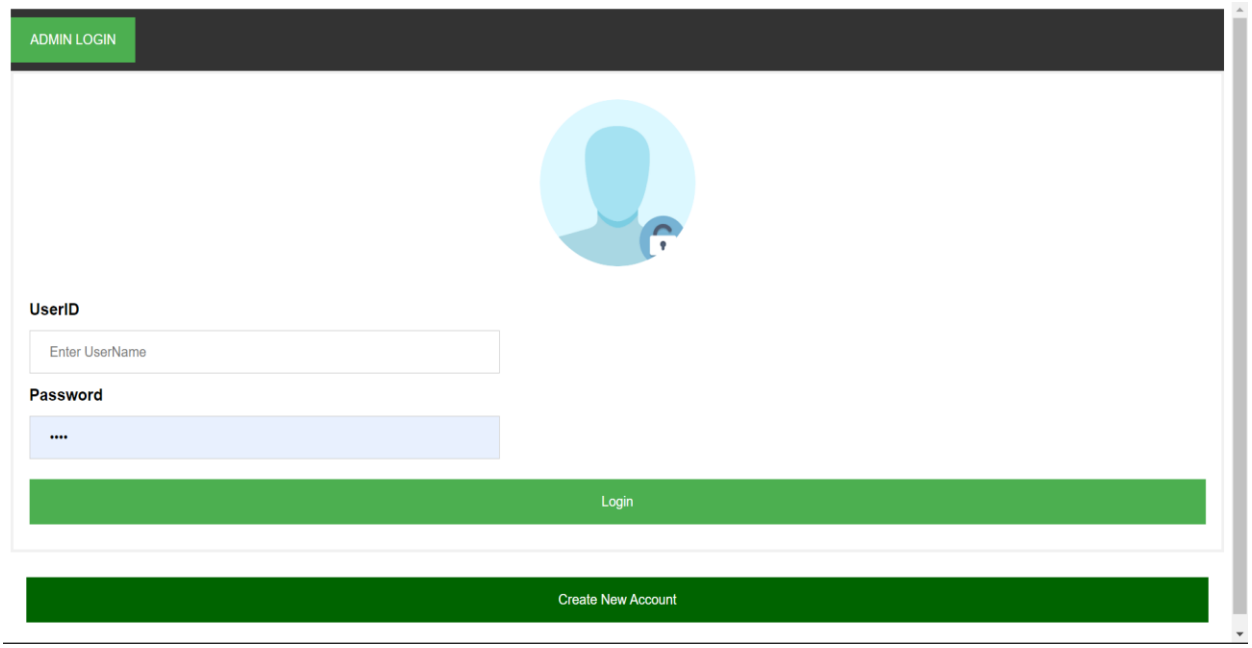
```
<?php



$username='root';
$password='';
$db='project024';
$conn=mysqli_connect('localhost',$username,$password,$db);
if(!$conn){
 die('Could not Connect My Sql:' .mysql_error());
}
if (!mysqli_select_db($conn,'project024')) {

    echo "database not selected";
  }
  ?>
<h1 style="text-align: center;">COURSES AVAILABLE</h1>
<?php
  $sql=mysqli_query($conn,"SELECT c.C_name,s.* FROM courses c,c_sources s WHERE
c.C_name=s.C_name");
?>
<?php
if (mysqli_num_rows($sql) > 0) {
?>
  <table>
  <tr>
    <td>C_name</td>
    <td>Channel</td>
    <td>Videoplaylists</td>
    <td>Host</td>
    <td>Delete Course</td>
  </tr>
<?php
```

```
$i=0;
while($row = mysqli_fetch_array($sql)) {
?>
<tr>
    <td><?php echo $row["C_name"]; ?></td>
    <td><?php echo $row["channel"]; ?></td>
    <td><?php echo $row["videoplaylists"]; ?></td>
    <td><?php echo $row["host_name"]; ?></td>
    <td><a href="coursedel.php?C_name=<?php echo $row['C_name']; ?>">Delete</a></td>
</tr>
<?php
$i++;
}
?>
</table>
 <?php
}
else{
    echo "No result found";
}
?>
```

CHAPTER-6

SNAPSHOTS

Login Page:

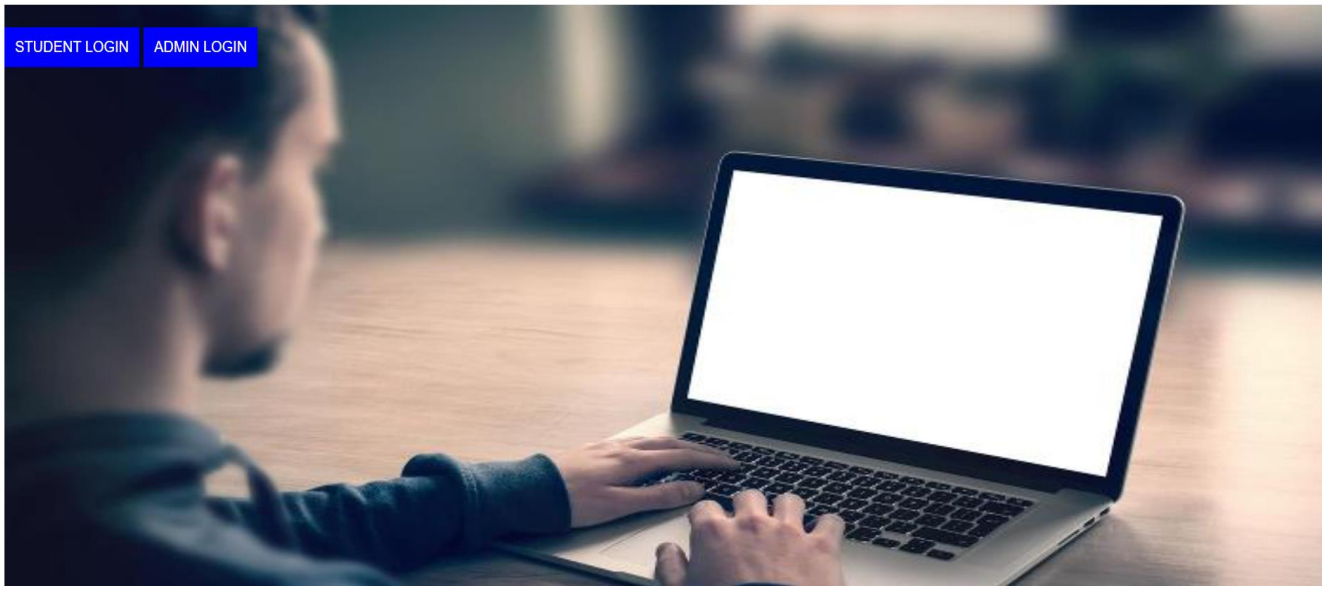


Login page

User needs to enter User name and Password and press Login. If username and password correct then admin will be switched on to next page. If incorrect password then error message is displayed and he will not be able to log in.

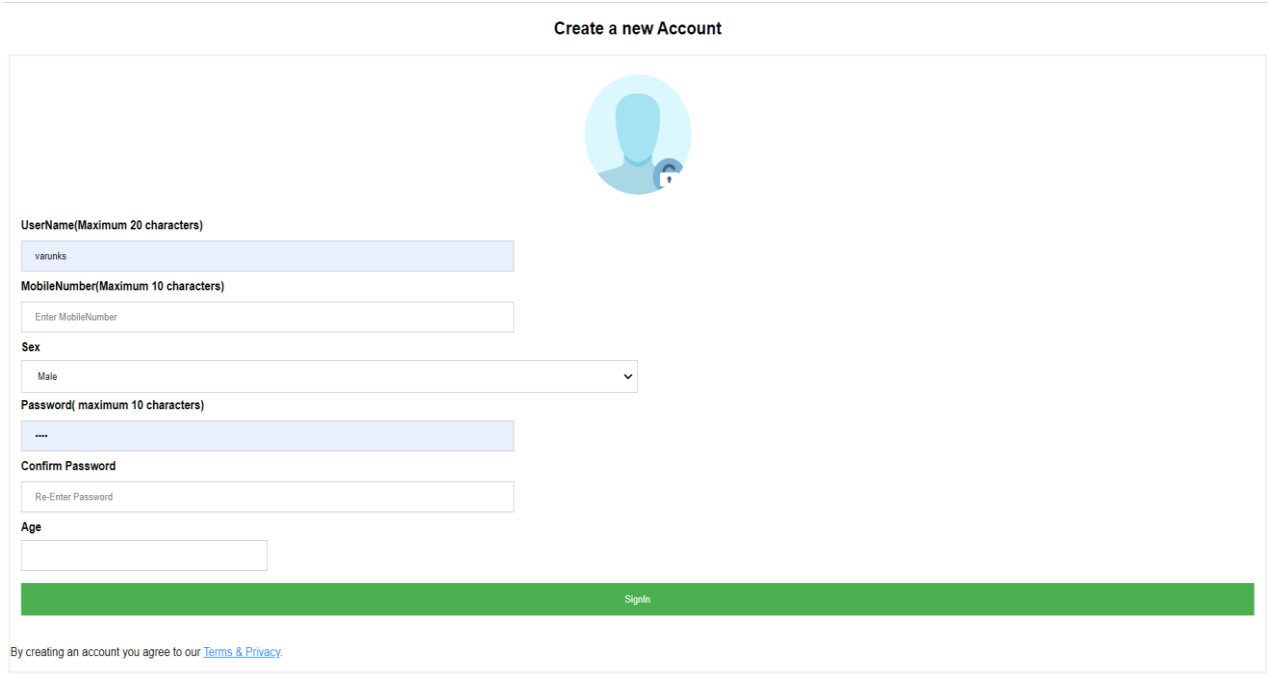
Home page :

ONLINE COURSE RECOMENDATION



This is the home page. The operations included in this page are login as student or admin.

Add User :



This page is for adding Member details into the Member entity. Once added you get the message that “added successfully”. The admin can even logout of the session anytime by pressing the log out icon.

Update / Delete Member :

MEMBERS:

BACK

UserID	Password	Mobile	Age	Sex	Delete Users
shashank H	skd@123	9889045563	17	Male	Delete
varunks	1234	8088121429	20	Male	Delete

Once the values are inserted, we can type a particular ID in the search box and then either update or delete that values, i.e we can perform deletion and update operations on the inserted values.

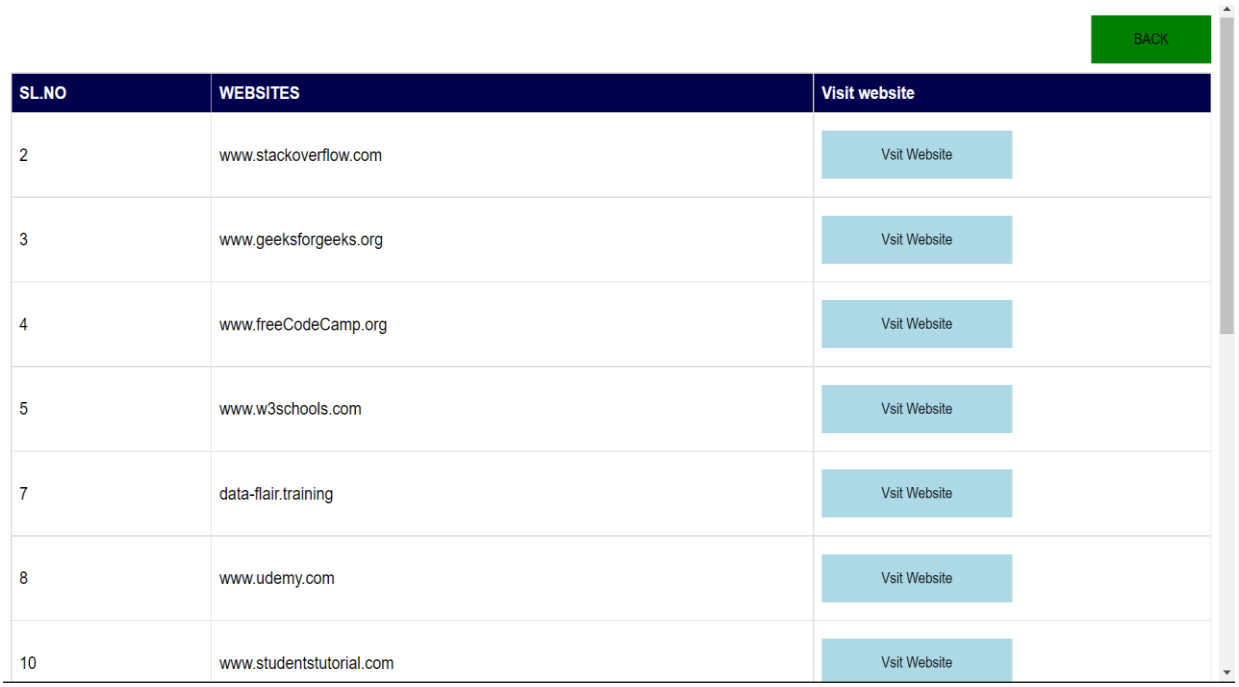
List of members :

LOGINS

BACK

UserID	date IN	date OUT
shashank H	2020/12/25 14:10:02	2020/12/25 14:11:11
varunks	2022/02/04 02:11:53	2022/02/04 02:20:46
varunks	2022/02/04 10:29:01	2022/02/04 10:29:13
varunks	2022/02/04 10:56:43	
varunks	2022/02/04 11:01:16	

List of Courses :



This page is for showing details of website links.

CONCLUSION

The Mini Project "**Online Course Recommendation**" is designed in order reduce the burden of maintaining bulk of records of course details in which Inserting, Retrieving and updating the Details are easy when itis compared to the manual update and storing. This project helps in maintaining the courses details in an Organized manner and to replace old paper work system.

While developing this mini project we have learnt a lot about php/MySQL and working with database management, we have also learnt how to make the application user friendly (easy to use and handle) by hiding the complicated parts of it from the users.

Using MySQL as the database is highly beneficial as it is free to download, popular and can be easily customized. The data stored in the MySQL database can easily be retrieved and manipulated according tothe requirements with basic knowledge of SQL.

With the theoretical inclination of our syllabus it becomes very essential to take the at most advantage of any opportunity of gaining practical experience that comes along. The building blocks of this Major Project "Online Course Recommendation" was one of these opportunities. It gave us the requisite practical knowledge to supplement the already taught theoretical concepts thus making us more competent as a computer engineer. The project from a personal point of view also helped us in understanding the following aspects of project development:

2.3 The planning that goes into implementing a project.

2.4 The importance of proper planning and an organized methodology.

2.5 The key element of team spirit and co-ordination in a successful project.

REFERENCES

1. Website :

- https://dev.mysql.com/doc/
- https://www.wikipedia.com
- https://www.w3schools.com/sql*