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Annexure-I

Micro Project Proposal

Student Management System

1. Aims/Benefits of the Micro-Project:

The aim of developing a student management system as your microproject in PHP is to create a robust and efficient platform that simplifies the management of various student-related tasks within an educational institution. This encompasses functionalities like student registration, attendance tracking, grade management, course enrollment, and report generation. By digitizing these processes, the system aims to streamline administrative tasks, reduce manual efforts, and enhance overall operational efficiency.

2. Course Outcome Addressed:

- Gain expertise in PHP programming language, including syntax, functions, and object-oriented concepts
- Acquire skills in designing efficient database schemas, implementing normalization principles, and utilizing SQL queries for seamless data management.
- Master HTML for structuring, CSS for styling, and JavaScript for interactivity, ensuring user-friendly web application development.

3. Proposed Methodology:

Requirement Analysis: Begin by thoroughly understanding the requirements of the student management system. This involves gathering inputs from stakeholders, identifying functional and non-functional requirements, and documenting them in a clear and structured manner.

System Design: Design the architecture and components of the system based on the requirements gathered. This includes creating a database schema, defining the system's modules, and outlining the user interface. Use tools like UML diagrams to visualize system structure and interactions.

Database Implementation: Implement the database schema designed in the previous step. Choose an appropriate database management system (e.g., MySQL, SQLite) and create tables, relationships, and constraints. Populate initial data if necessary.

Backend Development: Develop the server-side logic using PHP. Implement functionalities such as user authentication, student registration, course management, attendance tracking

4. Action Plan:

Sr. No.	Details of Activity	Planned Start date	Planned Finish date	Name of Responsible TeamMembers
1	Search the topic	18/08/2023 2:00pm-3:00pm	19/08/2023 2:00pm-3:00pm	Om Tadme
2	Search the information	25/08/2023 2:00pm-3:00pm	26/08/2023 2:00pm-3:00pm	
3	Design Flow Diagram	01/09/2023 2:00pm-3:00pm	03/09/2023 2:00pm-3:00pm	
4	Design of Code	15/09/2023 2:00pm-3:00pm	16/09/2023 2:00pm-3:00pm	
5	Execution of Code	29/09/2023 2:00pm-3:00pm	30/09/2023 2:00pm-3:00pm	
6	Perform White Box Testing	06/10/2023 2:00pm-3:00pm	07/10/2023 2:00pm-3:00pm	
7	Maintenance	13/10/2023 2:00pm-3:00pm	13/10/2023 2:00pm-3:00pm	
8	Finalizing Project with its Report	20/10/2023 2:00pm-3:00pm	21/10/2023 2:00pm-3:00pm	

5. Resources Required:

Sr.No.	Name of resource / material	Specification	Quantity	Remarks
1	Computer	WINDOWS 10, 8GB RAM, 256 GB SSD	1	
2	Browser	Chrome	1	
3	Development Tools	XAMPP,VS code	1	

6. Names of Team Member with Roll No.:

Sr. No.	Enrollment No.	Name of Team Member	Roll No.
1	2110950102	Om Angad Tadme	57

Mr. Sugre D.D.
Name and Signature of the Teacher

Annexure – II

Micro-Project Report

Student Management System

1. Rationale:

The rationale behind developing a student management system lies in addressing the inherent complexities of managing student-related tasks within educational institutions. Manual methods of student record-keeping, course management, and academic administration are often time-consuming, error-prone, and inefficient. By transitioning to a digital solution, such as a student management system, educational institutions can streamline administrative processes, enhance data accuracy, and improve overall operational efficiency.

2. Aims/Benefits of the Micro-Project:

- Efficiency.
- Accessibility.
- Accuracy.
- Data Management.
- Scalability.

3. Course Outcomes Achieved:

- Display message on screen using XAMPP server.
- Develop PHP program to demonstrate use of Operators.
- Perform operations on data structure in PHP.
- Develop functions for given problem.

4. Literature Review:

The literature surrounding student management systems encompasses a wide range of topics, including technological advancements, educational management theories, and practical applications within educational institutions. Researchers have explored various aspects of student management systems, investigating their effectiveness, impact on educational outcomes, and best practices for implementation.

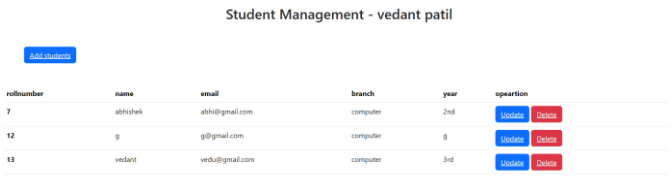
5. Actual Methodology Followed:

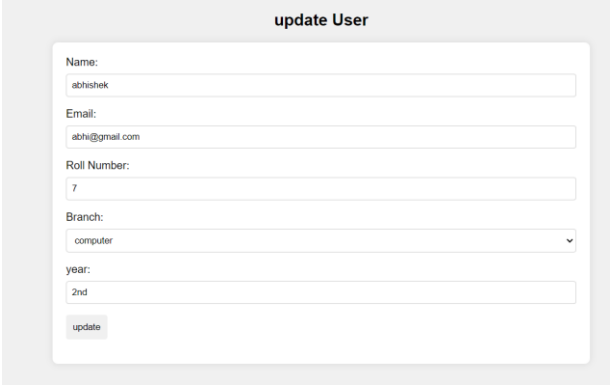
5.1 Source Code:

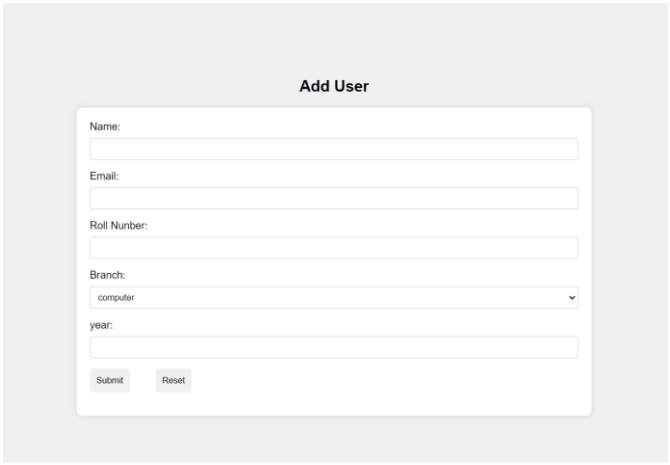
```
<?php

$conn=mysqli_connect('localhost','root',"",'vedu');
if(!$conn){
   echo"coonectin error";
}
?>



<?php
include 'conn.php';
?>



<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-
width, initial-scale=1.0">
   <title>vedu</title>
   <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/
css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR
1GAsXEV/Dwwykc2MPK8M2HN"
crossorigin="anonymous">

</head>
<body>

<center>
  <h2 class="mt-4">Student Management - vedant
patil</h2>
</center>

<button class="btn btn-primary m-5"><a
href="user.php" class="text-light">Add
students</a></button>

<table class="table">
  <thead>
    <tr>
      <th scope="col">rollnumber</th>
      <th scope="col">name</th>
      <th scope="col">email</th>
      <th scope="col">branch</th>
      <th scope="col">year</th>
      <th scope="col">opeartion</th>
    </tr>
  </thead>
  <tbody>

  <?php
    $sql="select *  from `vedant`";
    $result=mysqli_query($conn,$sql);
    if($result){
      while($row=mysqli_fetch_assoc($result)){
        $rollnumber=$row['rollnumber'];
        $name=$row['name'];
        $email=$row['email'];
        $branch=$row['branch'];
        $year=$row['year'];

        echo'<tr>
        <th scope="row">'. $rollnumber.'</th>
        <td>'.$name.'</td>
        <td>'.$email.'</td>
        <td>'.$branch.'</td>
        <td>'.$year.'</td>
        <td>
        <button class="btn btn-primary"><a
href="update.php?rollnumber='.$rollnumber.'"
class="text-light">Update</a></button>
        <button class="btn btn-danger"><a
href="delete.php?rollnumber='.$rollnumber.'"
class="text-light">Delete</a></button>
      </td>
      </tr
      break';


      }
    }
  ?>

  </tbody>
</table>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/j
s/bootstrap.bundle.min.js" integrity="sha384-
```

```
C6RzsynM9kWDrMNeT87bh95OGNyZPhcTNXj1NW
7RuBCsyN/o0jlpcV8Qyq46cDfL"
crossorigin="anonymous"></script>

</body>
</html>


<?php
include 'conn.php';
$rollnumber=$_GET["rollnumber"];
$sql="select * from `vedant` where
rollnumber=$rollnumber";
$result=mysqli_query($conn,$sql);
if($result){
   $row=mysqli_fetch_assoc($result);
   $rollnumber=$row["rollnumber"];
   $name=$row["name"];
   $email=$row["email"];
   $branch=$row["branch"];
   $year=$row["year"];
}
?>


<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-
width, initial-scale=1.0">
   <title>adduser</title>
   <link rel="stylesheet" href="user.css">
   <!-- <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/
css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-
T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR
1GAsXEV/Dwwykc2MPK8M2HN"
crossorigin="anonymous"> -->

</head>
<body>
<center>
   <h2>update User</h2>
</center>

   <div class="container">
      <form id="myForm" method="post">
         <label for="name">Name:</label>
         <input type="text" id="name" name="name"
required autocomplete="off" value=<?php echo $name;
?> >

         <label for="email">Email:</label>
         <input type="email" id="email" name="email"
required autocomplete="off" value=<?php echo $email;
?>>

         <label for="rollnumber">Roll Number:</label>
         <input type="number" id="rollnumber"
name="rollnumber"  required autocomplete="off"
value=<?php echo $rollnumber; ?>>

         <label for="Branch">Branch:</label>
         <select id="Branch" name="branch" required
autocomplete="off" value=<?php echo $branch; ?>>
            <option
value="computer">computer</option>
            <option value="information
technoloogy">information technoloogy</option>
            <option value="civil">civil</option>
            <option
value="electrical">electrical</option>
            <option
value="electronic">electronic</option>
         </select>
         <label for="year">year:</label>
         <input type="text" id="year" name="year"
required autocomplete="off" value=<?php echo $year;
?>>

         <div class="buttons">
            <input type="submit" value="update"
name="submit">
         </div>
      </form>
   </div>


   <?php



   if(isset($_POST['submit'])){
      $name=$_POST["name"];
      $rollnumber=$_POST["rollnumber"];
      $email=$_POST["email"];
      $branch=$_POST["branch"];
      $year=$_POST["year"];
```

```
        // echo"<h1> $name,$rollnumber, $email, $branch, $year </h1>";

        $sql="update `vedant` set
name='$name',name='$name',rollnumber='$rollnumber',email='$email',branch='$branch',year='$year' where
rollnumber=$rollnumber";
        $result=mysqli_query($conn,$sql);
        if($result){
            // echo"data is inserted";
            header('location:main.php');
        }
        else{
            echo"fuck";
        }
    }

    ?>


</body>
</html>
```







6. Actual Resources Used:

Sr.No.	Name of resource / material	Specification	Quantity	Remarks
1	Computer	WINDOWS 10, 8GB RAM, 256 GB SSD	1	
2	Browser	Chrome	1	
3	Development Tools	XAPMM, VS code	1	

7. Skill developed / Learning out of this Micro-Project:

a student Management System (HMS) as a micro-project presents a unique opportunity for skill development and learning outcomes. Through this project, participants will immerse themselves in all stages of software development, from requirements gathering to deployment. They will hone their software development skills, including coding, testing, and debugging, while gaining proficiency in programming languages such as PHP, HTML, CSS, JavaScript, and SQL.

8. Applications of this Micro-Project:

1. You can Add the student and view the student.
2. You can store the student data
3. You can update and delete student data

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