SAVITRIBAI PHULE PUNE UNIVERSITY

A REPORT ON -

" **<u>Student Management System</u>** "

SUBMITTED TOWARDS THE PARTIAL FULFILLMENT OF
THE REQUIREMENTS OF

BACHELOR OF ENGINEERING
(Artificial Intelligence and Data Science)

BY

- Shivam Borse   -TEAD20119
- Shraddha Lokhande   -TEAD20120
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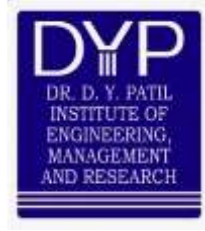- Urmila Dholi   -TEAD20146

Under The Guidance of

Prof. Archana Jadhav

Academic Year 2022-23

DEPARTMENT OF ARTIFICIALINTELLIGENCE AND DATA SCIENCE
Dr. D. Y. Patil Institute of Engineering,
Management & Research Akurdi, Pune.

Dr. D. Y. Patil Institute of Engineering, Management & Research

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA
SCIENCE

CERTIFICATE

This is to certify that the Activity Entitled

"Student Management System''

Submitted by

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Is a bonafide work carried out by Students under the supervision of **Prof. Archana Jhadhav** and it is submitted towards the partial fulfillment of the requirement of Bachelor of Engineering (AI and DS).

Prof.Archana Jadhav   **Prof.shivganga Gavhane**
Internal Guide   H.O.D
Dept. of AI&DS   Dept. of AI&DS

ACTIVITY APPROVAL SHEET

"Student Management System"

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at

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

(Dr. D. Y. Patil Institute of Engineering, Management   & Research)

SAVITRIBAI PHULE PUNE UNIVERSITY,PUNE ACADEMIC YEAR

2022-2023

Prof.Archana Jadhav	**Prof.shivganga Gavhane**
Internal Guide	H.O.D
Dept. of AI&DS	Dept. of AI&DS

Acknowledgments

It gives us great pleasure in presenting the preliminary project report on

"Student Management System"

I would like to take this opportunity to thank my internal guide **Mrs. Archana Jadhav** for giving me all the help and guidance I needed. I am really grateful to them for their kind support. Their valuable suggestions were very helpful.

I am also grateful to **Mrs. Shivganga Gavhane** , Head of Artificial Intelligence and Data Science Department, Dr. D. Y. Patil Institute of Engineering, Management & Research for his indispensable support, suggestions.

In the end our special thanks to **Mrs. Archana Jadhav** for providing various resources such as laboratory with all needed software platforms, continuous Internet connection, for Our Project.

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TABLE OF CONTENT :

MINI PROJECT (DATABASE MANGEMENT SYSTEM)

Problem statement :

Develop an application with following details:

1. Follow the same problem statement decided in Assignment-1 of Group A.

2. Follow the Software Development Life cycle and other concepts learnt in Software Engineering Course throughout the implementation.

3. Develop application considering:

• Front End: Python/Java/PHP/Perl/Ruby/.NET/ or any other language

• Backend : MongoDB/ MySQL/ Oracle / or any standard SQL / NoSQL database

4. Test and validate application using Manual/Automation testing.

5. Student should develop application in group of 2-3 students and submit the Project Report which will consist of documentation related to different phases of Software Development Life Cycle:

  • Title of the Project, Abstract, Introduction

  • Software Requirement Specification (SRS)

• Conceptual Design using ER features, Relational Model in appropriate Normalize form • Graphical User Interface, Source Code

• Testing document

• Conclusion

Title of project :

Student Management System

Abstract :

Our main focus is design a unique Student Management system that will improve Data management in Institutes experience for both Students and the Administration authorities. The whole system will run on internet. The system is written in PHP, java script, jQuery, HTML and CSS. Users will have the felicity to log in from any place with internet connection. After that they will be able to various tasks that are designed for them. It can be turned into a paid system only for doctors. Where the doctors can get additional cloud storage on payment. Student Management System is software which is helpful for students as well as the school authorities. In the current system all the activities are done manually. It is very   time consuming and costly. Our Student Management System deals with the various activities related to the students
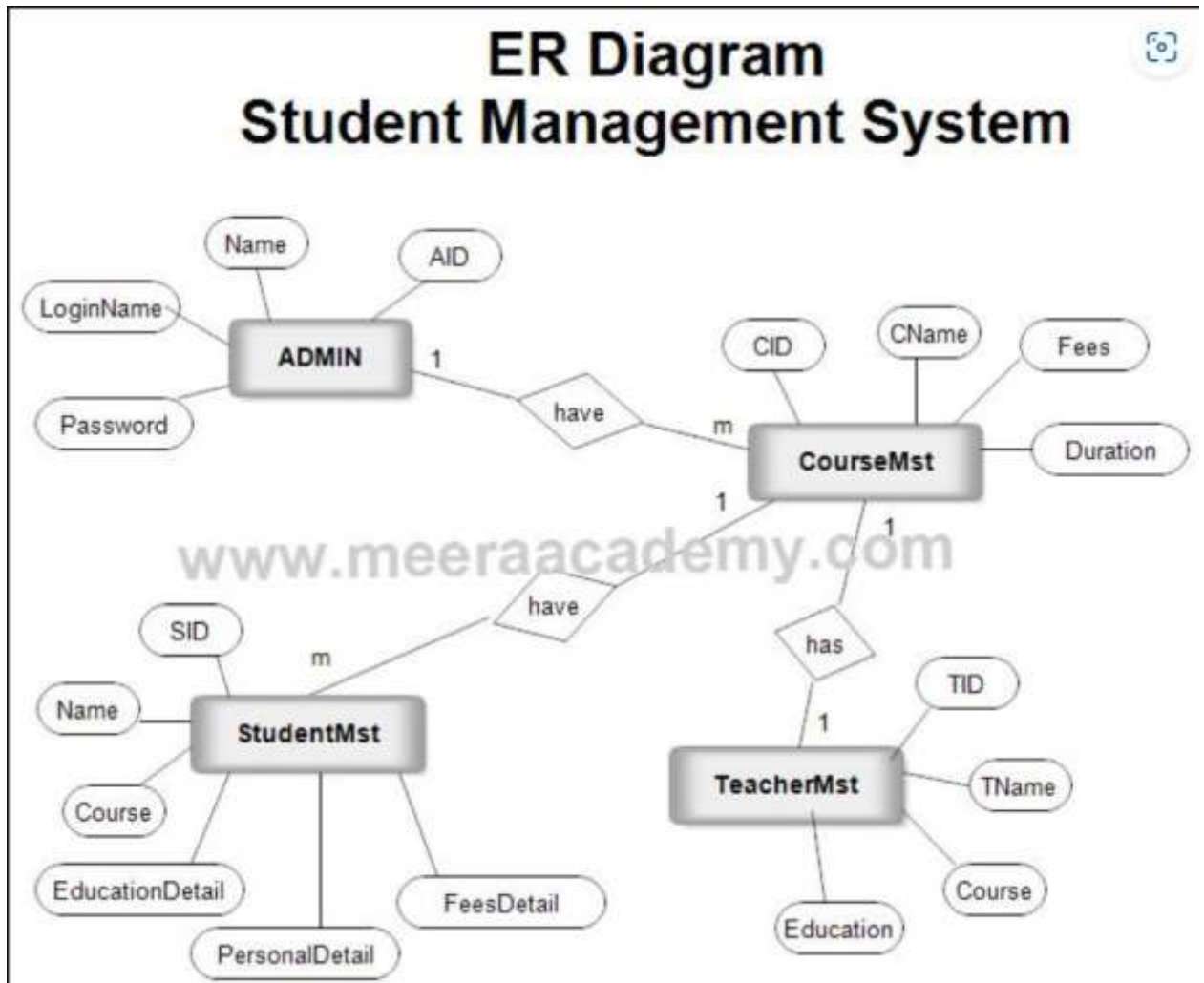
Introduction :

     Student Management System is software which is helpful for students as well as the school authorities. In the current system all the activities are done manually. It is very time consuming and costly. Our Student Management System deals with the various activities related to the students.

There are mainly 3 modules in this software :

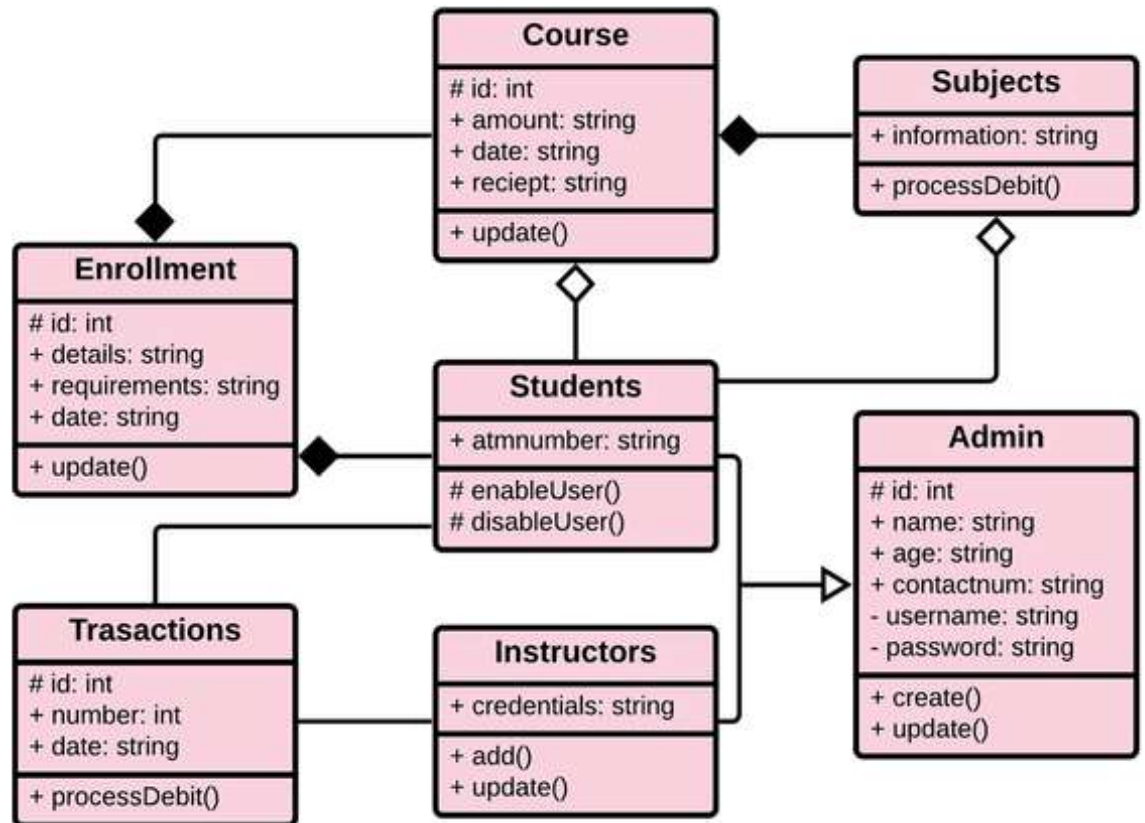☐ User module

☐ Student Module

☐ Mark management

     In the Software we can register as a user and user has of two types, student and administrator .Administrator has the power to add new user and can edit and delete a user. A student can register as user and can add edit and delete his profile. The administrator can add edit and delete marks for the student. All the users can see the marks.

ER Diagram ;

ER Diagram
Student Management System

UML Design :

Course
id: int
+ amount: string
+ date: string
+ reciept: string

+ update()

Subjects
+ information: string

+ processDebit()

Enrollment
id: int
+ details: string
+ requirements: string
+ date: string

+ update()

Students
+ atmnumber: string

enableUser()
disableUser()

Admin
id: int
+ name: string
+ age: string
+ contactnum: string
- username: string
- password: string

+ create()
+ update()

Trasactions
id: int
+ number: int
+ date: string

+ processDebit()

Instructors
+ credentials: string

+ add()
+ update()

Graphical User Interface

1)

2)

Source code:

```
<!DOCTYPE html>
<html>
<head>
    <title>Admin Login</title>
    <link        rel="stylesheet"        type="text/css"        href="bootstrap-
4.4.1/css/bootstrap.min.css">
    <script type="text/javascript" src="bootstrap-4.4.1/js/juqery_latest.js"></script>
    <script type="text/javascript" src="bootstrap-4.4.1/js/bootstrap.min.js"></script>
</head>
<body>
    <center><br><br>
        <h3>Admin LogIn Page</h3><br>
        <form action="" method="post">
            Email ID: <input type="text" name="email" required><br><br>
            Password: <input type="password" name="password" required><br><br>
            <input type="submit" name="submit" value="LogIn">
        </form><br>

        <?php
            session_start();
            if(isset($_POST['submit'])){
                $connection = mysqli_connect("localhost","root","");
                $db = mysqli_select_db($connection,"sms");
                $query = "select * from login where email = '$_POST[email]'";
                $query_run = mysqli_query($connection,$query);
                while ($row = mysqli_fetch_assoc($query_run)) {
                    if($row['email'] == $_POST['email']){
                        if($row['password'] == $_POST['password']){
                            $_SESSION['name'] =  $row['name'];
                            $_SESSION['email'] =  $row['email'];
                            header("Location: admin_dashboard.php");
                        }
                        else{
                            ?>
                            <span>Wrong Password !!</span>
                            <?php
                        }
                    }
                }
```

```php
      }
    ?>
  </center>
</body>
</html>

<?php
  $connection = mysqli_connect("localhost","root","");
  $db = mysqli_select_db($connection,"sms");
  $query          =          "insert          into          students
values('',$_POST[roll_no],'$_POST[name]','$_POST[father_name]',$_POST[class],'
$_POST[mobile]','$_POST[email]','$_POST[password]','$_POST[remark]')";
  $query_run = mysqli_query($connection,$query);
?>
<script type="text/javascript">
  alert("Student added successfully.");
  window.location.href = "admin_dashboard.php";
</script>

<!DOCTYPE html>
<html>
<head>
  <title>Login Page</title>
  <link          rel="stylesheet"          type="text/css"          href="bootstrap-
4.4.1/css/bootstrap.min.css">
  <script type="text/javascript" src="bootstrap-4.4.1/js/juqery_latest.js"></script>
  <script type="text/javascript" src="bootstrap-4.4.1/js/bootstrap.min.js"></script>
</head>
<body>
  <center><br><br>
  <h3>Student Management System</h3><br>
  <form action="" method="POST">
    <input type="submit" name="admin_login" value="Admin Login" required>
    <input type="submit" name="student_login" value="Student Login" required>
  </form>
  <?php
    if(isset($_POST['admin_login'])){
      header("Location: admin_login.php");
    }
    if(isset($_POST['student_login'])){
      header("Location: student_login.php");
    }
  ?>
```

```
    </center>
</body>
</html>
```

Test cases:

- ➤ Test case specification identifier
- ➤ Purpose
- ➤ Test items needed
- ➤ Special environmental needs
- ➤ Special procedural requirements
- ➤ Inter- case dependencies
- ➤ Input specifications
- ➤ Test procedure
- ➤ Output specification

Conclusion:

STUDENT MANAGEMENT SYSTEM successfully implemented based on online data filling which helps us in administrating the data user for managing the tasks performed in students. The project successfully used various functionalities of Xampp and python flask and also create the fully functional database management system for online portals. 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 to the requirements with basic knowledge of SQL. With the theoretical inclination of our syllabus it becomes very essential to take the atmost advantage of any opportunity of gaining practical experience that comes along. The building blocks of this Major Project "Students Management System" 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:

- ✓ The planning that goes into implementing a project.
- ✓ The importance of proper planning and an organized methodology.
- ✓ The key element of team spirit and co-ordination in a successful project.