

A Mini Project Report

*on*

## Student Management System

*by*

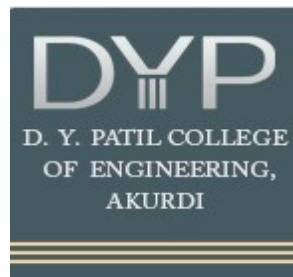
Yash Varpe(TEAIDB15)

Vedant Dhore (TEAIDB38)

Sourabh Kapse (TEAIDB47)

*Under the guidance of*

**Prof. Manasi Karajgar**



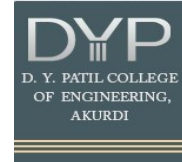
Department of Artificial Intelligence and Data  
Science

D. Y. PATIL COLLEGE OF ENGINEERING, AKURDI, PUNE  
SAVITRIBAI PHULE PUNE UNIVERSITY

**2022-2023**

Department of Artificial Intelligence and Data Science

D. Y. Patil College of Engineering



Date:

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## **CERTIFICATE**

This is to certify that,

Yash Varpe (TEAIDB15)

Vedant Dhore (TEAIDB38)

Sourabh Kapse (TEAIDB47)

of class T.E; have successfully completed their mini project work on “Student Management System” at D. Y. Patil College of Engineering in the partial fulfillment of the Graduate Degree course in T.E at the department of **Artificial Intelligence and Data Science** in the academic Year 2022-2023 Semester – I as prescribed by the Savitribai Phule Pune University.

Prof. Manasi Karajgar  
Guide

Dr. Vinayak Kottawar  
Head of the Department  
(Department of AI & DS)

## INTRODUCTION

### OBJECTIVES:

- The main objective of the project is to design and develop a user friendly-system □ Easy to use and an efficient computerized system.
- To develop an accurate and flexible system, it will eliminate data redundancy.
- To study the functioning of Students management System.
- To make a software fast in processing, with good user interface.
- To make software with good user interface so that user can change it and it should be used for a long time without error and maintenance.

### LIMITATIONS:

- Time consumption in data entry as the records are to be manually maintained faculties a lot of time.
- Lot of paper work is involved as the records are maintained in the files and registers.
- Storage Requires as files and registers are used the storage space requirement is increased.
- Less Reliable use of papers for storing valuable data information is not at all reliable.
- Aadhar linkage with the official aadhar database has not been done.

## **STUDY OF EXISTING SYSTEM**

### **CASE STUDY**

The success of any organization such as School of Public Health, University of Ghana hinges on its ability to acquire accurate and timely data about its operations, to manage this data effectively, and to use it to analyze and guide its activities. Integrated student database system offer users (Student, Registrar, HOD) with a unified view of data from multiple sources. To provide a single consistent result for every object represented in these data sources, data fusion is concerned with resolving data inconsistency present in the heterogeneous sources of data. The main objective of this project is to build a rigid and robust integrated student database system that will track and store records of students. This easy-to-use, integrated database application is geared towards reducing time spent on administrative tasks. The system is intended to accept process and generate report accurately and any user can access the system at any point in time provided internet facility is available. The system is also intended to provide better services to users, provide meaningful, consistent, and timely data and information and finally promotes efficiency by converting paper processes to electronic form. The system was developed using technologies such as, HTML, CSS ,JS and MySQL. PYTHON- FLASK, HTML and CSS are used to build the user interface and database was built using MySQL. The system is free of errors and very efficient and less time consuming due to the care taken to develop it. All the phases of software development cycle are employed and it is worthwhile to state that the system is very robust. Provision is made for future development in the system.

## **PROPOSED SYSTEM**

While there has been no consensus on the definition of Students Management in the literature, they have proposed that researchers adopt the below definition to allow for the coherent development of theory in the colleges. In order to have a successful students management, we need to make many decisions related to the flow of marks, attendance, and data. Each records should be added in a way to increase the scalability. Student management is more complex in colleges and other universities because of the impact on people's number requiring adequate and accurate information of students need.

## **DATABASE DESIGN**

### **SOFTWARE REQUIREMENTS:**

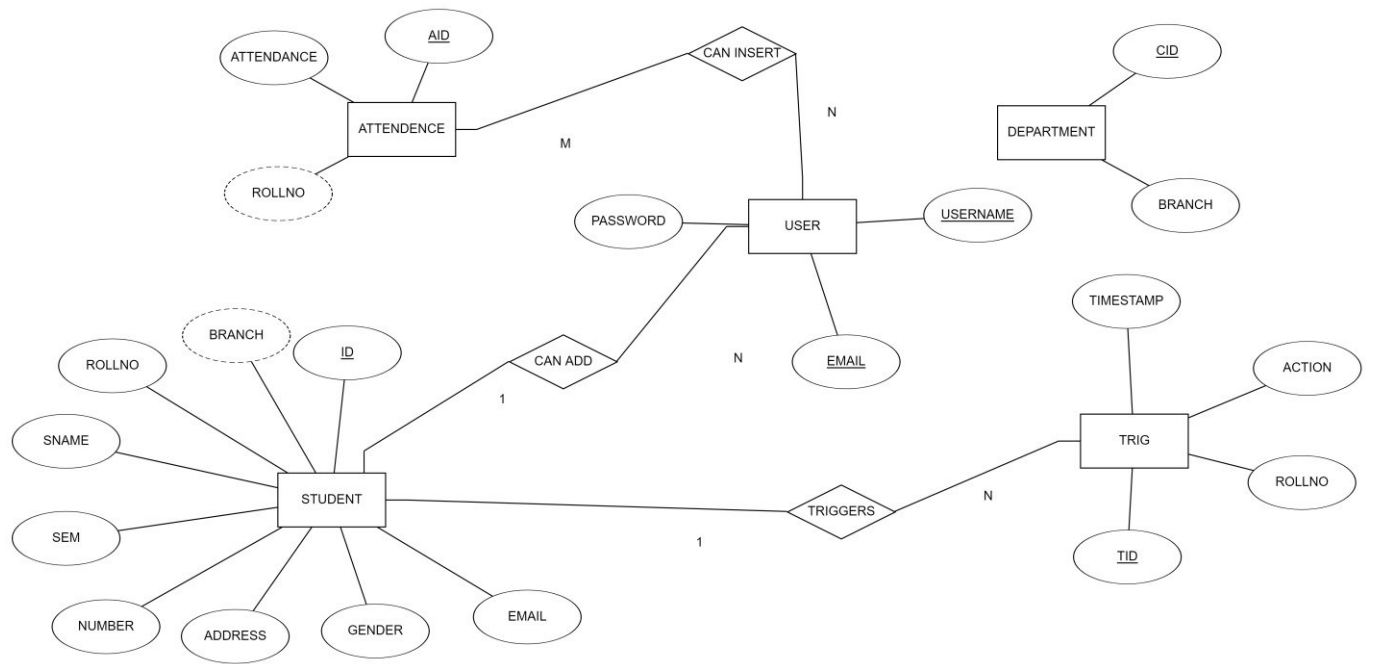
Frontend- HTML, CSS, Java Script, Bootstrap

Backend-Python flask (Python 3.9) , SQL

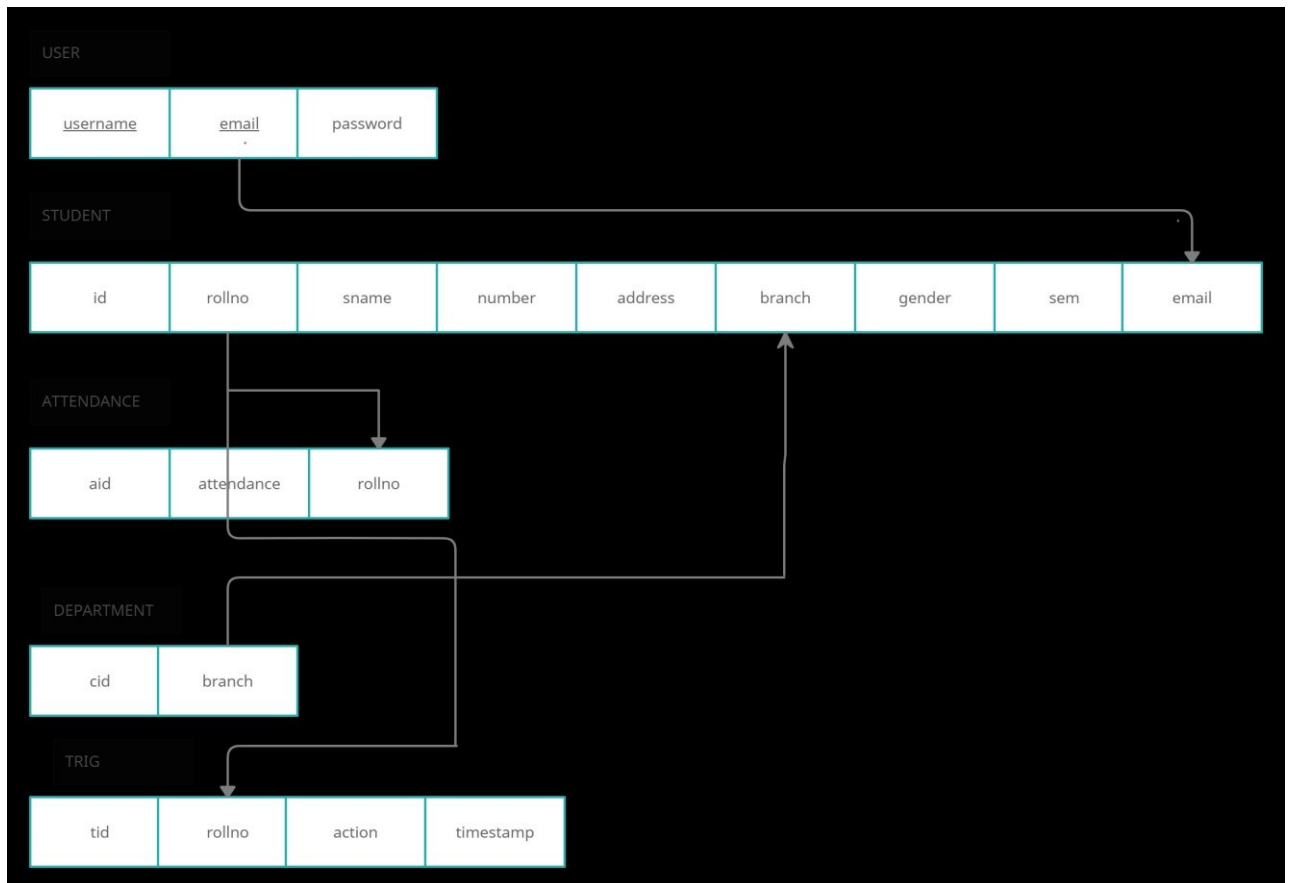
- Operating System: Windows 11
- Google Chrome/Internet Explorer
- XAMPP (Version-3.7)
- Python main editor (user interface): VS Code
- workspace editor: VS Code

## CONCEPTUAL DESIGN:

### E-R DIAGRAM:



## SCHEMA DIAGRAM:



## IMPLEMENTATION

An "implementation" of Python should be taken to mean a program or environment which provides support for the execution of programs written in the Python language, as represented by the [CPython](#) reference implementation.

There have been and are several distinct software packages providing of what we all recognize as Python, although some of those are more like distributions or variants of some existing implementation than a completely new implementation of the language.

**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.



## BACKEND PYHTON WITH MYSQL CODE

```

from flask import Flask,render_template,request,session,redirect,url_for,flash
from flask_sqlalchemy import SQLAlchemy from flask_login import
UserMixin

from werkzeug.security import generate_password_hash,check_password_hash
from flask_login import login_user,logout_user,login_manager,LoginManager from
flask_login import login_required,current_user import json


# MY db connection
local_server= True app
= Flask(__name__)
app.secret_key='kusumachandashwini'


# this is for getting unique user access
login_manager=LoginManager(app)
login_manager.login_view='login'


@login_manager.user_loader def
load_user(user_id):
    return User.query.get(int(user_id))


#
app.config['SQLALCHEMY_DATABASE_URL']='mysql://username:password@localhost/database_table
_name'
app.config['SQLALCHEMY_DATABASE_URI']='mysql://root:@localhost/dyp_students'
db=SQLAlchemy(app)


# here we will create db models that is tables class
Test(db.Model):
    id=db.Column(db.Integer,primary_key=True)
    name=db.Column(db.String(100))
    email=db.Column(db.String(100))

```

---

```
class Department(db.Model):
    cid=db.Column(db.Integer,primary_key=True)
    branch=db.Column(db.String(100))
```

```
class Attendance(db.Model):
    aid=db.Column(db.Integer,primary_key=True)
    rollno=db.Column(db.String(100))
    attendance=db.Column(db.Integer())
```

```
class Trig(db.Model):
    tid=db.Column(db.Integer,primary_key=True)
    rollno=db.Column(db.String(100))
    action=db.Column(db.String(100))
    timestamp=db.Column(db.String(100))
```

```
class User(UserMixin,db.Model):
    id=db.Column(db.Integer,primary_key=True)
    username=db.Column(db.String(50))
    email=db.Column(db.String(50),unique=True)
    password=db.Column(db.String(1000))
```

```
class Student(db.Model):
    id=db.Column(db.Integer,primary_key=True)
    rollno=db.Column(db.String(50))
    sname=db.Column(db.String(50))
    sem=db.Column(db.Integer)
    gender=db.Column(db.String(50))
    branch=db.Column(db.String(50))
    email=db.Column(db.String(50))
    number=db.Column(db.String(12))
    address=db.Column(db.String(100)) @app.route('/') def
index():
```

---

```
return render_template('index.html')
```

```
@app.route('/studentdetails') def
studentdetails():
    query=db.engine.execute(f"SELECT * FROM `student`")
    return render_template('studentdetails.html',query=query)
```

```
@app.route('/triggers') def
triggers():
    query=db.engine.execute(f"SELECT * FROM `trig`")
    return render_template('triggers.html',query=query)
```

```
@app.route('/department',methods=['POST','GET'])
def department():    if request.method=="POST":
dept=request.form.get('dept')
    query=Department.query.filter_by(branch=dept).first()
if query:
    flash("Department Already Exist","warning")
return redirect('/department')
dep=Department(branch=dept)
db.session.add(dep)    db.session.commit()
flash("Department Addes","success")    return
render_template('department.html')
```

```
@app.route('/addattendance',methods=['POST','GET']) def
addattendance():
    query=db.engine.execute(f"SELECT * FROM `student`")
if request.method=="POST":
rollno=request.form.get('rollno')
attend=request.form.get('attend')    print(attend,rollno)
    atte=Attendance(rollno=rollno,attendance=attend)
db.session.add(atte)    db.session.commit()
    flash("Attendance added","warning")
    return render_template('attendance.html',query=query)
```

---

```

@app.route('/search',methods=['POST','GET'])
def search():    if request.method=="POST":
rollno=request.form.get('roll')
        bio=Student.query.filter_by(rollno=rollno).first()
attend=Attendance.query.filter_by(rollno=rollno).first()    return
render_template('search.html',bio=bio,attend=attend)

    return render_template('search.html')

```

```

@app.route("/delete/<string:id>",methods=['POST','GET'])
@login_required def
delete(id):
    db.engine.execute(f"DELETE FROM `student` WHERE `student`.`id`={id}")
flash("Slot Deleted Successful","danger")    return redirect('/studentdetails')

```

```

@app.route("/edit/<string:id>",methods=['POST','GET'])
@login_required def
edit(id):
    dept=db.engine.execute("SELECT * FROM `department`")
posts=Student.query.filter_by(id=id).first()    if
request.method=="POST":
        rollno=request.form.get('rollno')
sname=request.form.get('sname')
sem=request.form.get('sem')
gender=request.form.get('gender')
branch=request.form.get('branch')
email=request.form.get('email')
num=request.form.get('num')
address=request.form.get('address')
        query=db.engine.execute(f"UPDATE `student` SET
`rollno`='{rollno}',`sname`='{sname}',`sem`='{sem}',`gender`='{gender}',`branch`='{branch}',`email`='{em
ail}',`number`='{num}',`address`='{address}'")
        flash("Slot is Updates","success")
return redirect('/studentdetails')

    return render_template('edit.html',posts=posts,dept=dept)

```

---

```

@app.route('/signup',methods=['POST','GET']) def
signup():    if request.method == "POST":
username=request.form.get('username')
email=request.form.get('email')
password=request.form.get('password')
user=User.query.filter_by(email=email).first()
if user:
    flash("Email Already Exist","warning")
return render_template('/signup.html')
encpassword=generate_password_hash(password)

    new_user=db.engine.execute(f'INSERT INTO `user` (`username`,`email`,`password`) VALUES
(''{username}'',''{email}'',''{encpassword}'')')

    # this is method 2 to save data in db
    # newuser=User(username=username,email=email,password=encpassword)
    # db.session.add(newuser)
# db.session.commit()

    flash("Signup Succes Please Login","success")
return render_template('login.html')

return render_template('signup.html')

@app.route('/login',methods=['POST','GET']) def
login():    if request.method == "POST":
email=request.form.get('email')
password=request.form.get('password')
user=User.query.filter_by(email=email).first()
if user and
check_password_hash(user.password,password):

    login_user(user)
    flash("Login Success","primary")
return redirect(url_for('index'))    else:

```

---

```

        flash("invalid credentials","danger")
    return render_template('login.html')

```

```

    return render_template('login.html')

```

```

@app.route('/logout')
@login_required def
logout():
logout_user()
    flash("Logout Successful","warning")
return redirect(url_for('login'))

```

```

@app.route('/addstudent',methods=['POST','GET'])
@login_required def
addstudent():
    dept=db.engine.execute("SELECT * FROM `department`")
if request.method=="POST":
    rollno=request.form.get('rollno')
sname=request.form.get('sname')
sem=request.form.get('sem')
gender=request.form.get('gender')
branch=request.form.get('branch')
email=request.form.get('email')
num=request.form.get('num')
address=request.form.get('address')
query=db.engine.execute(f'INSERT INTO `student`
(`rollno`,`sname`,`sem`,`gender`,`branch`,`email`,`number`,`address`) VALUES
('{rollno}','{sname}','{sem}','{gender}','{branch}','{email}','{num}','{address}')')")
flash("Booking
Confirmed","info")

```

```

    return render_template('student.html',dept=dept)

```

```

@app.route('/test')
def test():    try:

```

---

```
Test.query.all()    return 'My  
database is Connected' except:  
    return 'My db is not Connected'
```

```
app.run(debug=True)
```

---

---

## FRONT END CODE

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta content="width=device-width, initial-scale=1.0" name="viewport">

  <title>{% block title %}
  {% endblock title %}</title>
  <meta content="" name="description">
  <meta content="" name="keywords">

  {% block style %}
  {% endblock style %}

  <link
href="https://fonts.googleapis.com/css?family=Open+Sans:300,300i,400,400i,700,700i|Raleway:3
00,400,500,700,800" rel="stylesheet">

  <!-- Vendor CSS Files -->
  <link href="static/assets/vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
  <link href="static/assets/vendor/venobox/venobox.css" rel="stylesheet">
  <link href="static/assets/vendor/font-awesome/css/font-awesome.min.css" rel="stylesheet">
  <link href="static/assets/vendor/owl.carousel/assets/owl.carousel.min.css" rel="stylesheet">
  <link href="static/assets/vendor/aos/aos.css" rel="stylesheet">

  <!-- Template Main CSS File -->
  <link href="static/assets/css/style.css" rel="stylesheet">

</head>

<body>
```



---

```
<!-- ===== Header ===== -->
<header id="header">
  <div class="container">

    <div id="logo" class="pull-left">

      <a href="/" class="scrollto">S.M.S</a>
    </div>

    <nav id="nav-menu-container">
      <ul class="nav-menu">
        <li class="{% block home %}
          {% endblock home %}"><a href="/">Home</a></li>

        <li><a href="/addstudent">Students</a></li>
        <li><a href="/addattendance">Attendance</a></li>
        <li><a href="/department">Department</a></li>
        <li><a href="/triggers">Records</a></li>
        <li><a href="/studentdetails">Student Details</a></li>
        <li><a href="/search">Search</a></li>

        <li><a href="/about">About</a></li>

        {% if current_user.is_authenticated %}
          <li class="buy-tickets"><a href="">Welcome</a></li>
          <li class="buy-tickets"><a href="/logout">Logout</a></li>
        {% else %}
          <li class="buy-tickets"><a href="/signup">Signin</a></li>

        {% endif %}
      </ul>
    </nav><!-- #nav-menu-container -->
```

---

```

</div>
</header><!-- End Header -->

<!-- ===== Intro Section ===== -->
<section id="intro">
    <div class="intro-container" data-aos="zoom-in" data-aos-delay="100">
        <h1 class="mb-4 pb-0">STUDENT MANAGEMENT SYSTEM </span> </h1>
        <p class="mb-4 pb-0">DBMS Mini Project Using Flask & MYSQL</p>

        <a href="" class="about-btn scrollto">View More</a>
    </div>
</section><!-- End Intro Section -->
<main id="main">

    {% block body %}

    {% with messages=get_flashed_messages(with_categories=true) %}
    {% if messages %}
    {% for category, message in messages %}

    <div class="alert alert-{{category}} alert-dismissible fade show" role="alert">
        {{message}}

    </div>

    {% endfor %}
    {% endif %}
    {% endwith %}
    {% endblock body %}

    <a href="#" class="back-to-top"><i class="fa fa-angle-up"></i></a>

```

---

```
<!-- Vendor JS Files -->
<script src="static/assets/vendor/jquery/jquery.min.js"></script>
<script src="static/assets/vendor/bootstrap/js/bootstrap.bundle.min.js"></script>
<script src="static/assets/vendor/jquery.easing/jquery.easing.min.js"></script>
<script src="static/assets/vendor/php-email-form/validate.js"></script>
<script src="static/assets/vendor/venobox/venobox.min.js"></script>
<script src="static/assets/vendor/owl.carousel/owl.carousel.min.js"></script>
<script src="static/assets/vendor/superfish/superfish.min.js"></script>
<script src="static/assets/vendor/hoverIntent/hoverIntent.js"></script>
<script src="static/assets/vendor/aos/aos.js"></script>

<!-- Template Main JS File -->
<script src="static/assets/js/main.js"></script>

</body>

</html>
```

## 2.Students.html

```
{% extends 'base.html' %}
{% block title %}
Add Students
{% endblock title %}

{% block body %}
<h3 class="text-center"><span>Add Student Details</span> </h3>

{% with messages=get_flashed_messages(with_categories=true) %}
{% if messages %}
{% for category, message in messages %}
```

---

```
<div class="alert alert-{{category}} alert-dismissible fade show" role="alert">
  {{message}}
```

```
</div>
```

```
{% endfor %}
```

```
{% endif %}
```

```
{% endwith %}
```

```
<br>
```

```
<div class="container">
```

```
<div class="row">
```

```
<div class="col-md-4"></div>
```

```
<div class="col-md-4">
```

```
<form action="/addstudent" method="post">
```

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

```
<label for="rollno">Roll Number</label>
```

```
<input type="text" class="form-control" name="rollno" id="rollno">
```

```
</div>
```

```
<br>
```

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

```
<label for="sname">Student Name</label>
```

```
<input type="text" class="form-control" name="sname" id="sname">
```

```
</div>
```

```
<br>
```

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

```
<label for="sem">Sem</label>
```

```
<input type="number" class="form-control" name="sem" id="sem">
```

```
</div>
```

```
<br>
```

---

```
<div class="form-group">
<select class="form-control" id="gender" name="gender" required>
  <option selected>Select Gender</option>

  <option value="male">Male</option>
  <option value="female">Female</option>

</select>
</div>
<br>

<div class="form-group">
<select class="form-control" id="branch" name="branch" required>
  <option selected>Select Branch</option>
  {% for d in dept %}
  <option value="{{d.branch}}">{{d.branch}}</option>
  {% endfor %}
</select>
</div>
<br>
<div class="form-group">

<label for="email">Email</label>
<input type="email" class="form-control" name="email" id="email">
</div>
<br>
<div class="form-group">
<label for="num">Phone Number</label>
<input type="number" class="form-control" name="num" id="num">
</div>
<br>

<div class="form-group">
<label for="address">Address</label>
<textarea class="form-control" name="address" id="address"></textarea> </div>
```

---

<br>

<button type="submit" class="btn btn-danger btn-sm btn-block">Add Record</button>

</form>

<br>

<br>

</div>

<div class="col-md-4"></div>

</div></div>

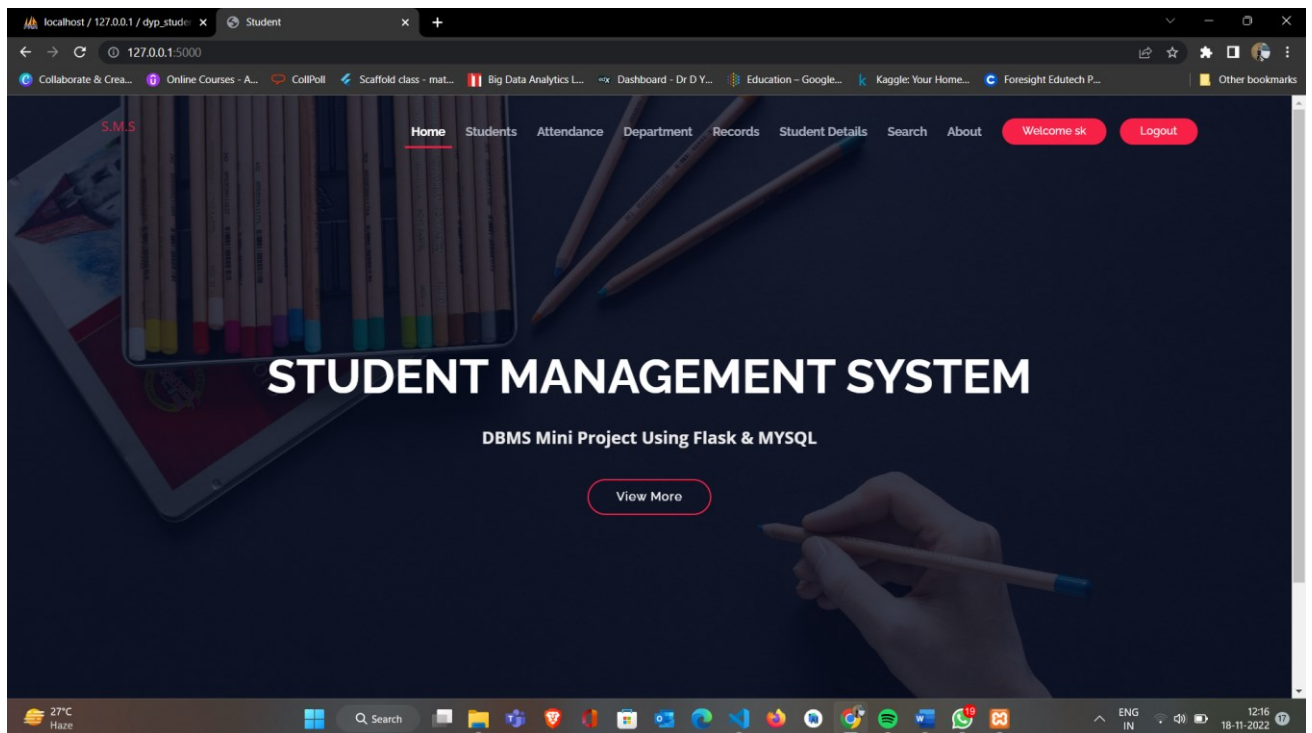
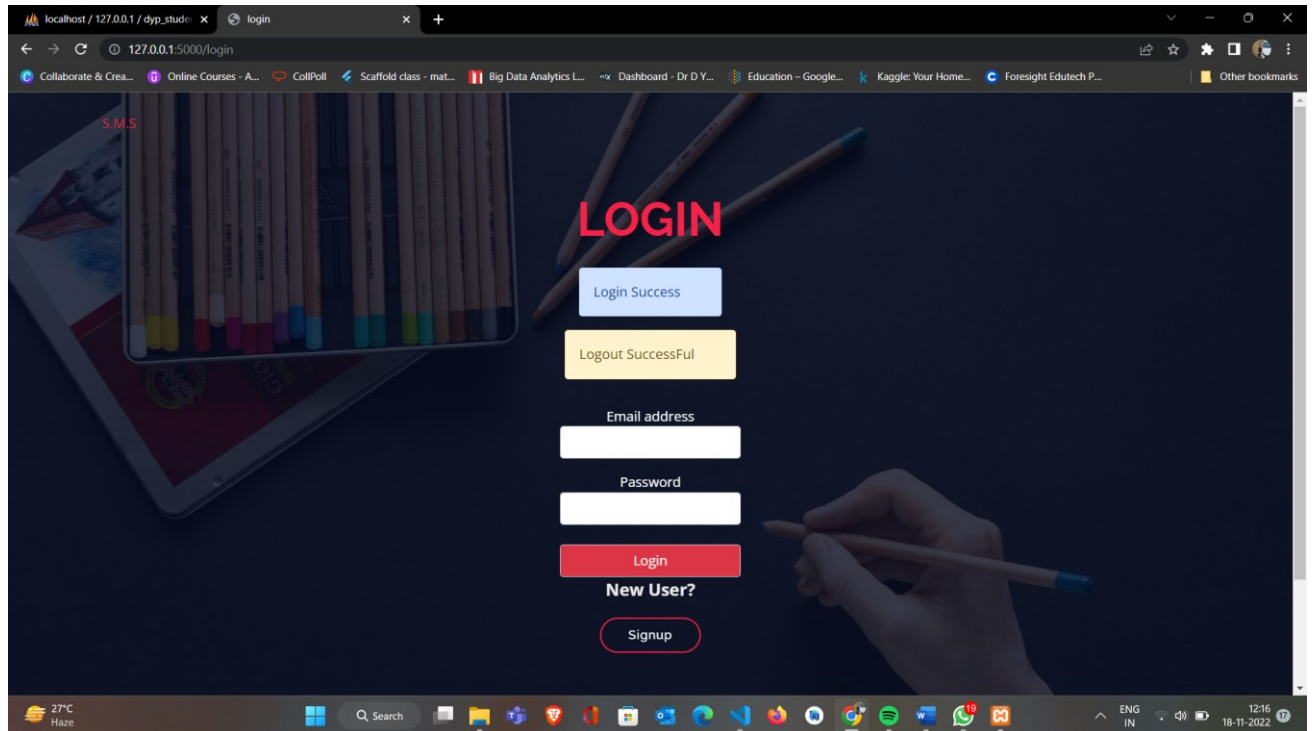
{% endblock body %}

---

## USER INTERFACE

## SCREEN SHOTS

### LOGIN PAGE:



## ADDING STUDENTS INFO

The screenshot shows a web browser window with the URL `127.0.0.1:5000/addstudent`. The page has a dark blue header with the text "S.M.S" and navigation links: Home, Students, Attendance, Department, Records, Student Details, Search, and About. There are also "Welcome sk" and "Logout" buttons. The main content area is titled "Add Student Details" and contains a form with the following fields: Roll Number, Student Name, Sem, Select Gender, Select Branch, Email, and Phone Number. A red circular button with an upward arrow is located at the bottom right of the form area. The Windows taskbar at the bottom shows the date as 18-11-2022 and the time as 12:18.

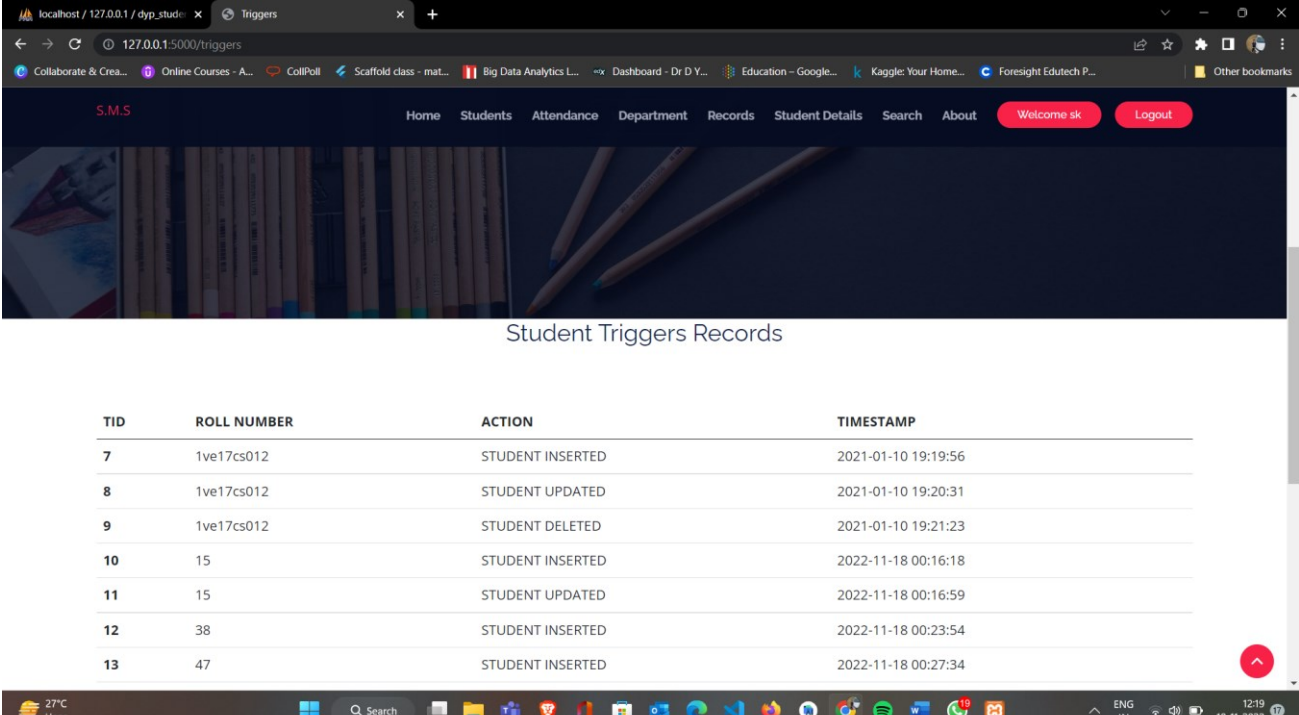
The screenshot shows a web browser window with the URL `127.0.0.1:5000/studentdetails`. The page has a dark blue header with the text "S.M.S" and navigation links: Home, Students, Attendance, Department, Records, Student Details, Search, and About. There are also "Welcome sk" and "Logout" buttons. Below the header is a banner image with the text "DBMS Mini Project Using Flask & MYSQL" and a "View More" button. The main content area is titled "Student Details" and contains a table with the following data:

SID	ROLL NUMBER	STUDENT NAME	SEM	GENDER	BRANCH	EMAIL	NUMBER	ADDRESS	EDIT	DELETE
10	47	Sourabh	5	male	Artificial Intelligence & Data Science	sk@gmail.com	9356918801	Pimpri	<a href="#">Edit</a>	<a href="#">Delete</a>
11	15	Yash Varpe	5	male	computer science	yashvarpe7@gmail.com	1234567890	Pune	<a href="#">Edit</a>	<a href="#">Delete</a>
12	38	Vedant Dhore	6	male	Information Technology	vedantdhore@gmail.com	1234567823	Nigdi	<a href="#">Edit</a>	<a href="#">Delete</a>

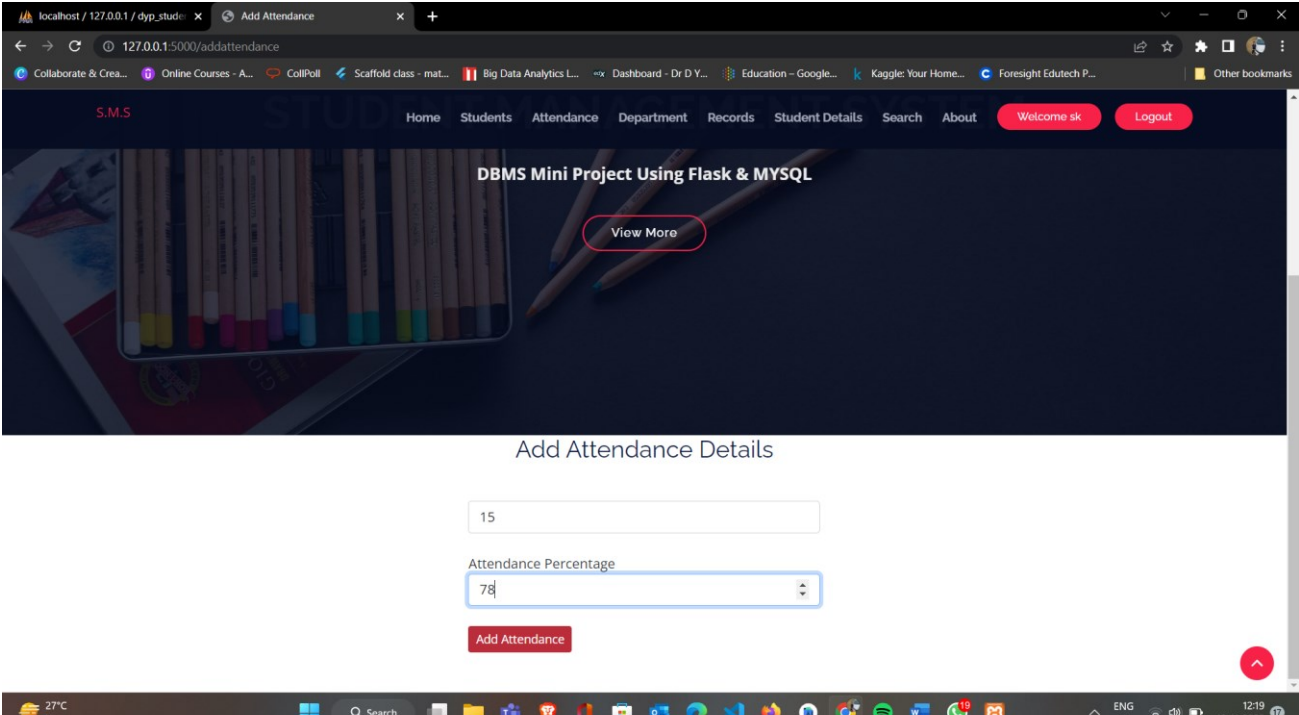
The Windows taskbar at the bottom shows the date as 18-11-2022 and the time as 12:18.



# TRIGGERS RECORDS



TID	ROLL NUMBER	ACTION	TIMESTAMP
7	1ve17cs012	STUDENT INSERTED	2021-01-10 19:19:56
8	1ve17cs012	STUDENT UPDATED	2021-01-10 19:20:31
9	1ve17cs012	STUDENT DELETED	2021-01-10 19:21:23
10	15	STUDENT INSERTED	2022-11-18 00:16:18
11	15	STUDENT UPDATED	2022-11-18 00:16:59
12	38	STUDENT INSERTED	2022-11-18 00:23:54
13	47	STUDENT INSERTED	2022-11-18 00:27:34



DBMS Mini Project Using Flask & MYSQL

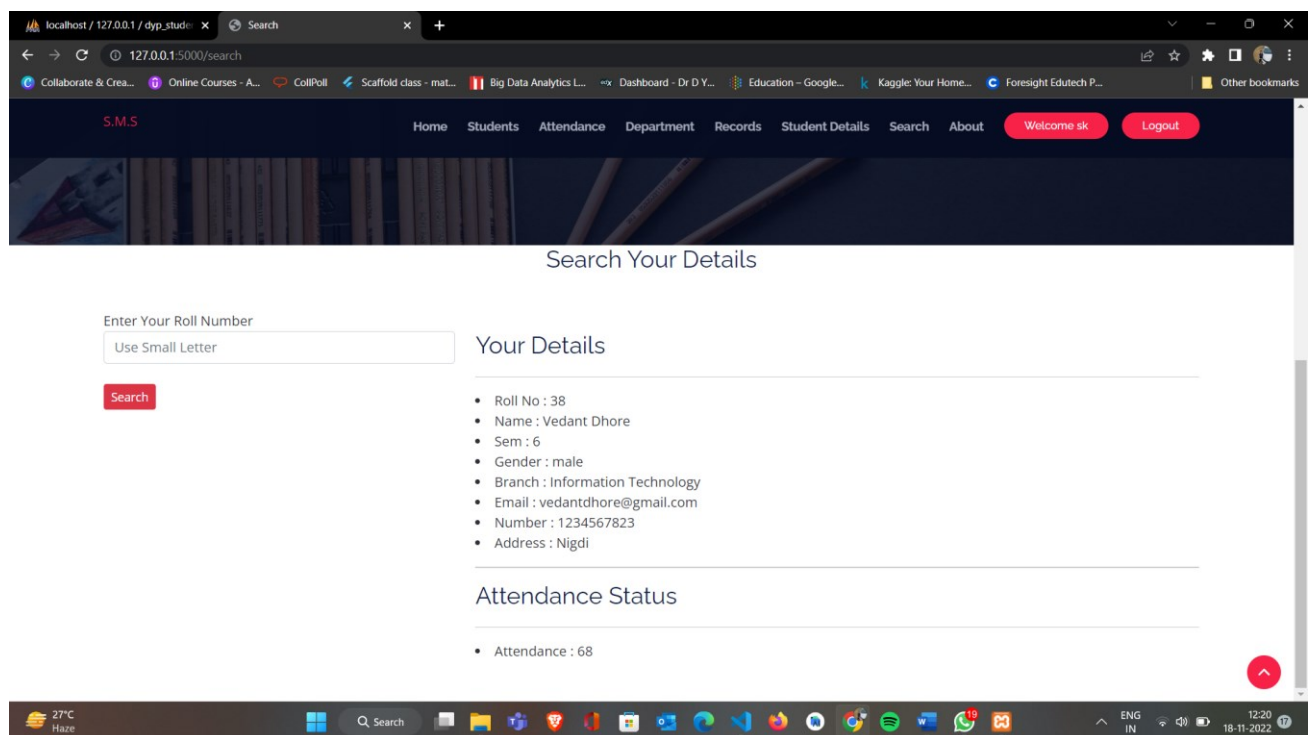
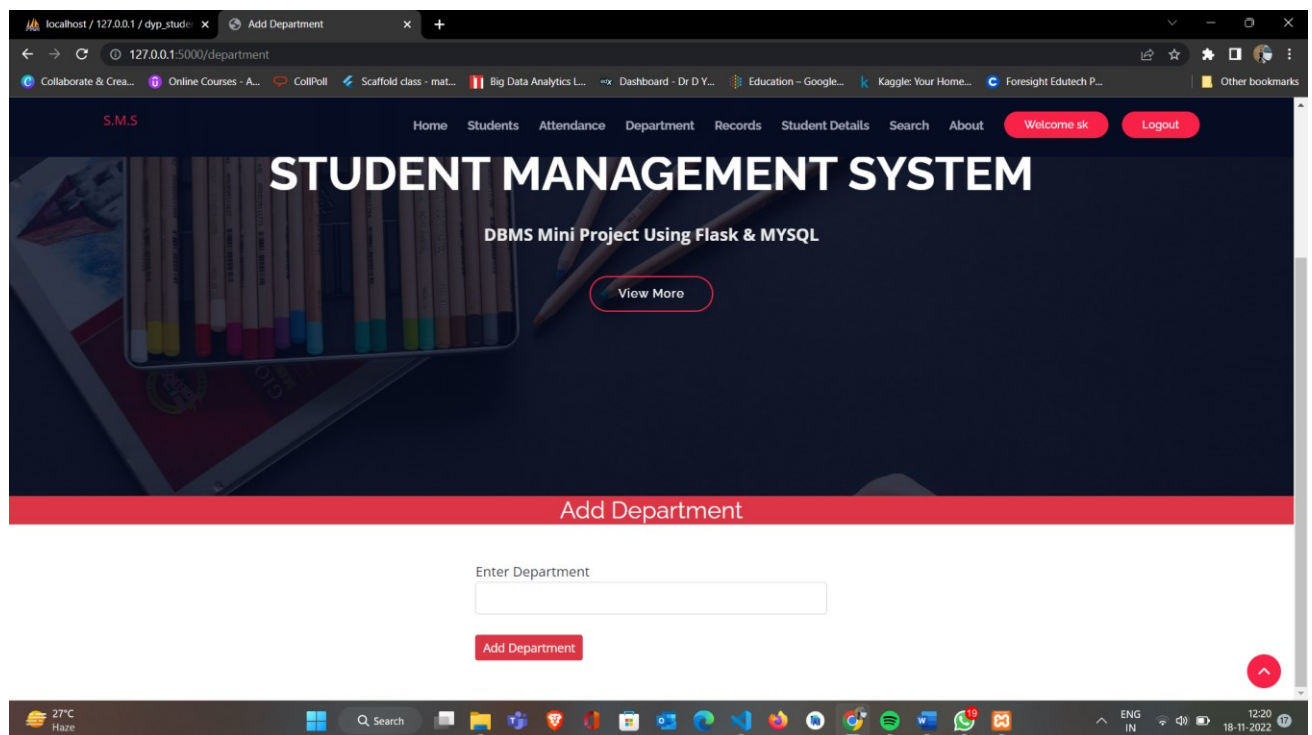
View More

15

Attendance Percentage

78

Add Attendance



# DATABASE LOCALHOST

The screenshot shows the phpMyAdmin interface for a database named 'dyp\_students' on a localhost server (127.0.0.1). The left sidebar displays the database structure, including tables like 'attendance', 'department', 'student', 'test', 'trig', and 'user'. The main panel shows the 'Structure' tab for the 'dyp\_students' database. It lists the following tables:

Table	Action	Rows	Type	Collation	Size	Overhead
attendance	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	5	InnoDB	utf8mb4_general_ci	16.0 K	-
department	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	6	InnoDB	utf8mb4_general_ci	16.0 K	-
student	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	3	InnoDB	utf8mb4_general_ci	16.0 K	-
test	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	1	InnoDB	utf8mb4_general_ci	16.0 K	-
trig	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	21	InnoDB	utf8mb4_general_ci	16.0 K	-
user	[Browse] [Structure] [Search] [Insert] [Empty] [Drop]	3	InnoDB	utf8mb4_general_ci	16.0 K	-
<b>6 tables</b>	<b>Sum</b>	<b>39</b>	<b>InnoDB</b>	<b>utf8mb4_general_ci</b>	<b>96.0 K</b>	<b>0 B</b>

Below the table list, there is a 'Create new table' section with fields for 'Table name' and 'Number of columns' (set to 4), and a 'Create' button. The bottom status bar shows the system temperature as 27°C and the date as 18-11-2022.

The screenshot shows the phpMyAdmin interface for the 'student' table in the 'dyp\_students' database. The main panel displays the 'Table: student' view. It shows the following data:

id	rollno	sname	sem	gender	branch	email	number	address
10	47	Sourabh	5	male	Artificial Intelligence & Data Science	sk@gmail.com	9356918801	Pimpri
11	15	Yash Varpe	5	male	computer science	yashvarpe7@gmail.com	1234567890	Pune
12	38	Vedant Dhore	6	male	Information Technology	vedantdhore@gmail.com	1234567823	Nigdi

The interface also shows a 'Query results operations' section with buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'. The bottom status bar shows the system temperature as 27°C and the date as 18-11-2022.

localhost / 127.0.0.1 / dyp\_stude... x Search

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=dyp\_students&table=trig

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phpMyAdmin

Recent Favorites

- New
- dyp\_students
- New
- attendance
- department
- student
- test
- trig
- user
- information\_schema
- mysql
- performance\_schema
- phpmyadmin
- test

Server: 127.0.0.1 » Database: dyp\_students » Table: trig

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 20 (21 total, Query took 0.0003 seconds)

SELECT \* FROM `trig`

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	tid	rolino	action	timestamp
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	1ve17cs012	STUDENT INSERTED	2021-01-10 19:19:56
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	1ve17cs012	STUDENT UPDATED	2021-01-10 19:20:31
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	1ve17cs012	STUDENT DELETED	2021-01-10 19:21:23
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	15	STUDENT INSERTED	2022-11-18 00:16:18
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	11	15	STUDENT UPDATED	2022-11-18 00:16:59
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	12	38	STUDENT INSERTED	2022-11-18 00:23:54
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	13	47	STUDENT INSERTED	2022-11-18 00:27:34
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	14	48	STUDENT INSERTED	2022-11-18 00:42:13
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	15	47	STUDENT UPDATED	2022-11-18 00:42:33
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	16	47	STUDENT UPDATED	2022-11-18 00:42:33
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	17	47	STUDENT UPDATED	2022-11-18 00:42:33

Console

Bookmarks Options History Clear

27°C Haze

Search

12:21 18-11-2022

localhost / 127.0.0.1 / dyp\_stude... x Search

localhost/phpmyadmin/index.php?route=/sql&db=dyp\_students&table=user&pos=0

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phpMyAdmin

Recent Favorites

- New
- dyp\_students
- New
- attendance
- department
- student
- test
- trig
- user
- information\_schema
- mysql
- performance\_schema
- phpmyadmin
- test

Server: 127.0.0.1 » Database: dyp\_students » Table: user

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 2 (3 total, Query took 0.0002 seconds)

SELECT \* FROM `user`

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Extra options

	id	username	email	password
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	sk	sk@gmail.com	pbkd12.sha256.260000ScZtqdSZYOY0XtVSQS14f3bt0a645...
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	yash	yashvarpe7@gmail.com	pbkd12.sha256.260000S0tyuMnE1Jvh16i1w\$16e7776aae49...

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label:  ☐ Let every user access this bookmark

Console

Bookmarks Options History Clear

27°C Haze

Search

12:22 18-11-2022

localhost / 127.0.0.1 / dyp\_stud...

Search

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=dyp\_students&table=attendance

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phpMyAdmin

Recent Favorites

New

dyp\_students

New

attendance

department

student

test

trig

user

information\_schema

mysql

performance\_schema

phpmyadmin

test

Server: 127.0.0.1 » Database: dyp\_students » Table: attendance

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

SELECT \* FROM `attendance`

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Extra options

	aid	rollno	attendance
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	15	50
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	47	76
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	47	76
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	38	68

☐ Check all With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

☐ Print ☐ Copy to clipboard ☐ Export ☐ Display chart ☐ Create view

Bookmark this SQL query

Console

Bookmarks Options History Clear

27°C Haze

Search

ENG IN

12:23 18-11-2022

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## 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 utmost 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.

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## REFERENCES

- <https://www.youtube.com>
- <https://www.google.com>
- <http://www.getbootstrap.com>
- <http://www.python.org>