A Project Report

on

'STUDENT MANAGEMENT SYSTEM'

Submitted towards partial fulfillment of the requirements
for the award of the degree

Bachelor of Computer Applications
(BCA)

OF SESSION-2023-24

Guided by
Kashif Asrar Ahmad
Asst. Professor
Department of
Computer Science

Submitted by
Mohd Shuaib
Roll No. : 210303106045
Enroll No. MSU21245953
BCA VI Semester

ISLAMIA DEGREE COLLEGE, DEOBAND, SAHARANPUR
(Affiliated to Maa Shakumbhari University, Saharanpur)

CERTIFICATE

This is to certify that this report embodies the work done by **Mohd Shuaib** during this project submission as a fulfillment of the requirement for the Major Project of Bachelors Of Computer Applicaton VI Semester.

Dr. Vakeel Ahmad
(Principal)
Islamia Degree College
Deoband

Miss. Khalida Fatma (H.O.D)
(BCA Department)
Islamia Degree College

ACKNOWLEDGEMENT

The satisfaction and euphoria that accompany the successful completion of any task would be incomplete without complementing those who made it possible, whose guidance and encouragement made our efforts successful.

I express our sincere gratitude to **Dr Vakeel Ahmad** (Principal), **Islamia Degree College, Deoband** for providing the required facility.

I am extremely thankful to **Miss Khalida Fatma HOD of BCA** for providing support and encouragement.

I am grateful to **Mr Kashif Asrar Ahmad ,** Asst.Professor,Dept.of **BCA** who helped me to complete this project successfully by providing guidance,encouragement and valuable suggestion during entire period of the project. I thank all my computer science staff and others who helped directly or indirectly to meet my project work with grandsuccess.
Finally, Iam grateful to my parents and classmates for the irinvaluable support guidance and encouragement.

Mohd Shuaib
BCA VI Sem.
Roll No. : 210303106045

TITLE OF THE PROJECT

The title of the project plays a very important role. It denotes someone, something about the project. The title of the project must be thought with a great care. It should be short and must contain everything in itself. Sometimes the main title of the project is so specific that it tells the purpose and meaning of the project and sometimes it is so complicated that one cannot identify the purpose of the project by onle knowing the name of the project.

I thought the title of my project as the:-

Student Management System

The name of the project is rightly thought as it is for the Management of Student's Data.

ABSTRACT

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. Its time saving and scalable. Our Student Management System deals with the various activities related to the students

In the software we can register as a user and user has two types student and administrator. Administrator has the power to add new user and can edit the students details entered. A admin can add students record ,attendance status with department wise. All students can search his/her basics details and attendance status with there respective roll numbers.

INDEX &CONTENT

CHAPTERNO. **PAGENO.**

1. INTRODUCTION **1**

1.1OBJECTIVES

1.2LIMITATIONS

2.STUDY OF EXISTING SYSTEM **2**

2.1ACASESTUDYON

2.**2PROPOSEDSYSTEM**

2. **DATABASE DESIGN** **03-20**

3.1SOFTWAREREQUIREMENTSPECIFICATION

3.1.1COLLECTIONOFREQUIREMENTS

3.1.2SOFTWAREANDHARDWAREREQUIREMENTS

3.2CONCEPTUALDESIGN

3.2.1ERDIAGRAM

3.2.3SCHEMADIAGRAM

3.3IMPLEMENTATION

3.3.1FRONTEND

3.3.2BACKEND

3.3.3TRIGGER

3.**3.4STOREDPROCEDURE**

3. **USER INTERFACES** **21-31**

4.1SCREENSHOTS

CONCLUSIONS FUTURE ENHANCEMENTS AND REFERENCES

CHAPTER-1

INTRODUCTION

1.1 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.
- To provide synchronized and centralized farmer and seller database.
- Computerization can be helpful as a means of saving time and money.
- To provide better Graphical User Interface (GUI).
- Less chances of information leakage.
- Provides Security to the data by using login and password method.
- To provide immediate storage and retrieval of data and information.
- Improving arrangements for students coordination.
- Reducing paperwork.

1.2 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.

CHAPTER-2

STUDY OF EXISTING SYSTEM

2.1 Future & Scope:

The success of any organization such as School of Public Health, University of Delhi 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.

2.2 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.

CHAPTER 3

3. DATABASE DESIGN

3.1 SOFTWARE REQUIREMENTS SPECIFICATION

3.1.2 SOFTWARE REQUIREMENTS:

Frontend- HTML, CSS, Java Script

Backend-Python flask (Python 3.7) , SQLAlchemy,

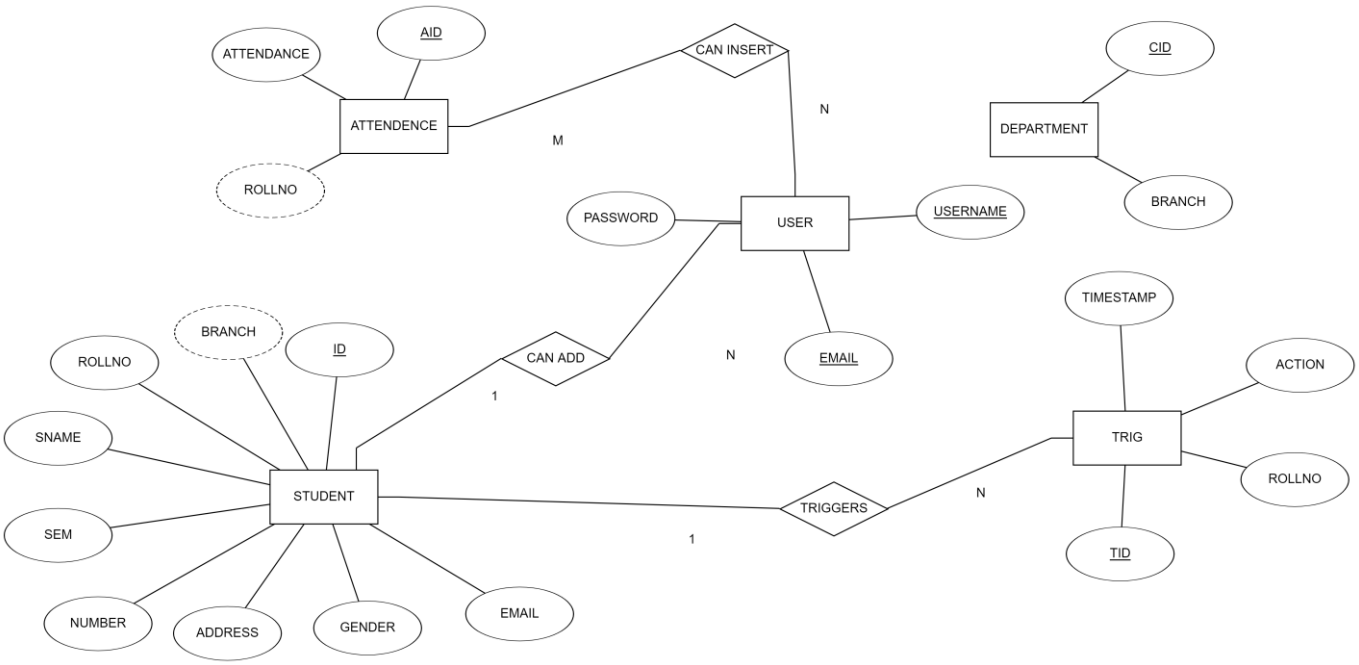
- Operating System: Windows 10,7,8.1,Linux,MAC
- Google Chrome/Internet Explorer
- XAMPP (Version-3.7)
- Python main editor (user interface): PyCharm Community Edition, VS Code
- workspace editor: VS Code

HARDWARE REQUIREMENTS:

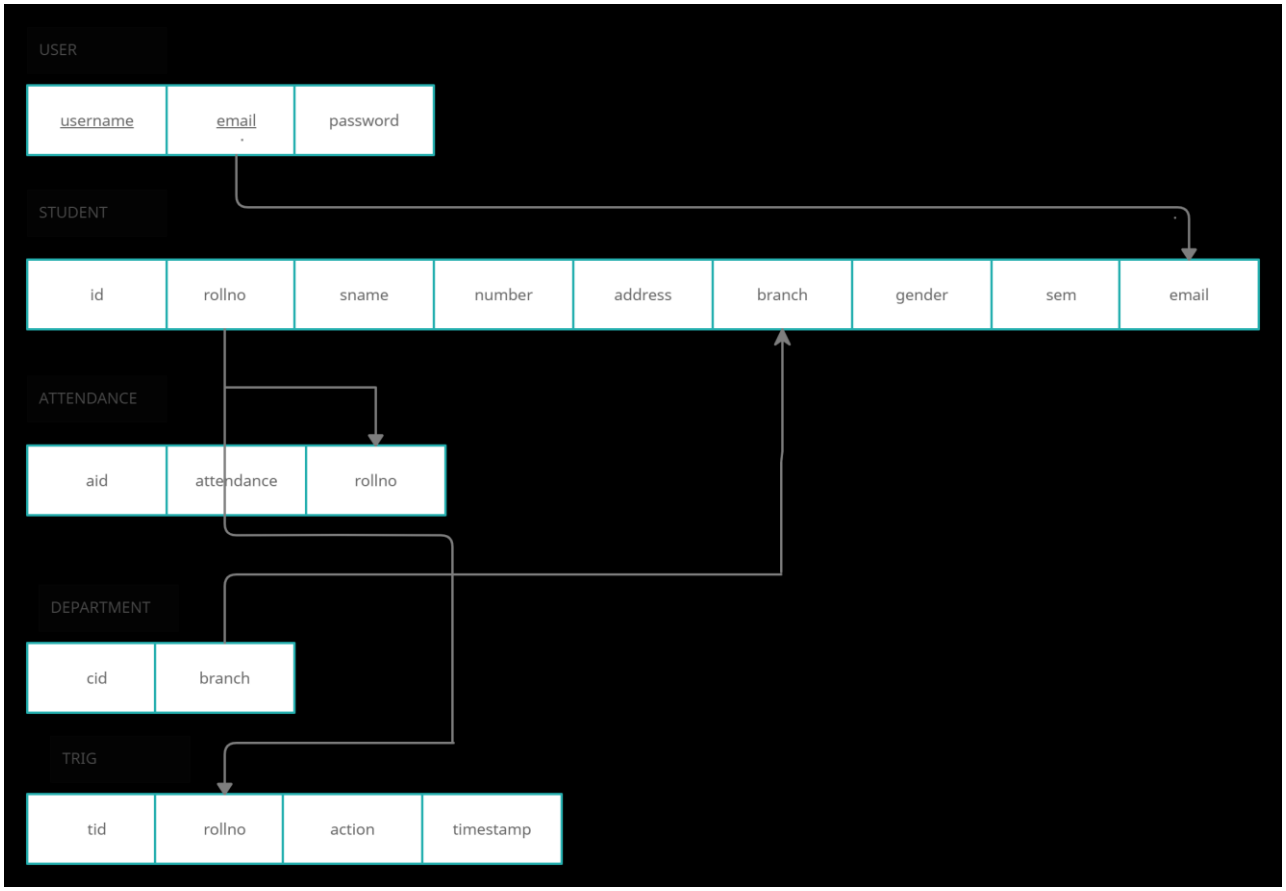
- Computer with a 1.1 GHz or faster processor
- Minimum 2GB of RAM or more
- 2.5 GB of available hard-disk space
- 5400 RPM hard drive
- 1366 × 768 or higher-resolution display
- DVD-ROM drive

3.2 CONCEPTUAL DESIGN:

3.2.1 E-R DIAGRAM:



3.2.2 SCHEMA DIAGRAM:



3.3 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.

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 andreport

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.

✓ 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).

- It also maintains the integrity of the data in the database.
- 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).

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)

.

4.2 : Stored Procedure

Routine name: proc
Type: procedure
Definition: Select * from register;

4.3: Triggers

It is the special kind of stored procedure that automatically executes when an event occurs in the database.

Triggers used :

1: Trigger name: on insert

Table: register

Time: after

Event: insert

INSERT INTO trig VALUES(null,NEW.rid,'Farmer Inserted',NOW())

2: Trigger name: on delete

Table: register

Time: after

Event: delete

Definition: INSERT INTO trig VALUES(null,OLD.rid,'FARMER DELETED',NOW())

3: Trigger name: on update

Table: register

Time: after

Event: update

Definition: INSERT INTO trig VALUES(null,NEW.rid,'FARMER UPDATED',NOW())

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/databas_table_
name'
app.config['SQLALCHEMY_DATABASE_URI']='mysql://root:@localhost/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))
```

Students Management System

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

class Attendence(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=Attendence(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=Attendence.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>
```

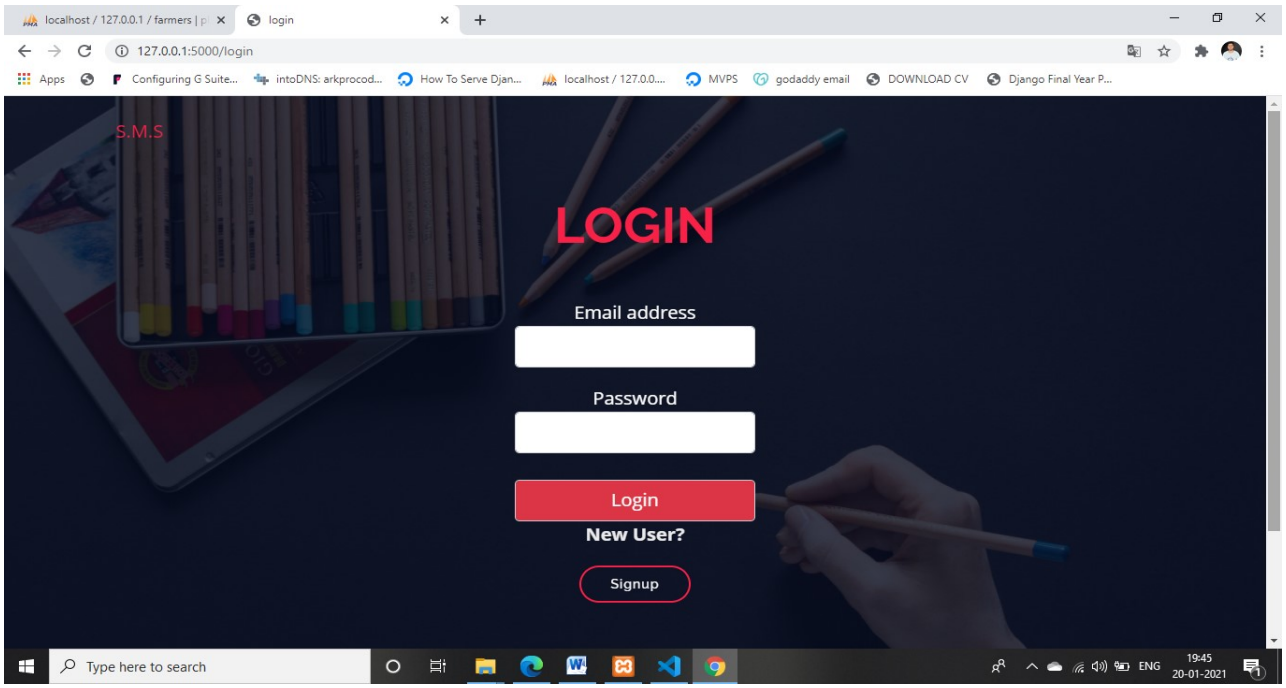
```
<div class="form-group">
<select  class="form-control" id="gender" name="gender"  required>
      <option selected>Select Gender</option>

      <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 %}
```

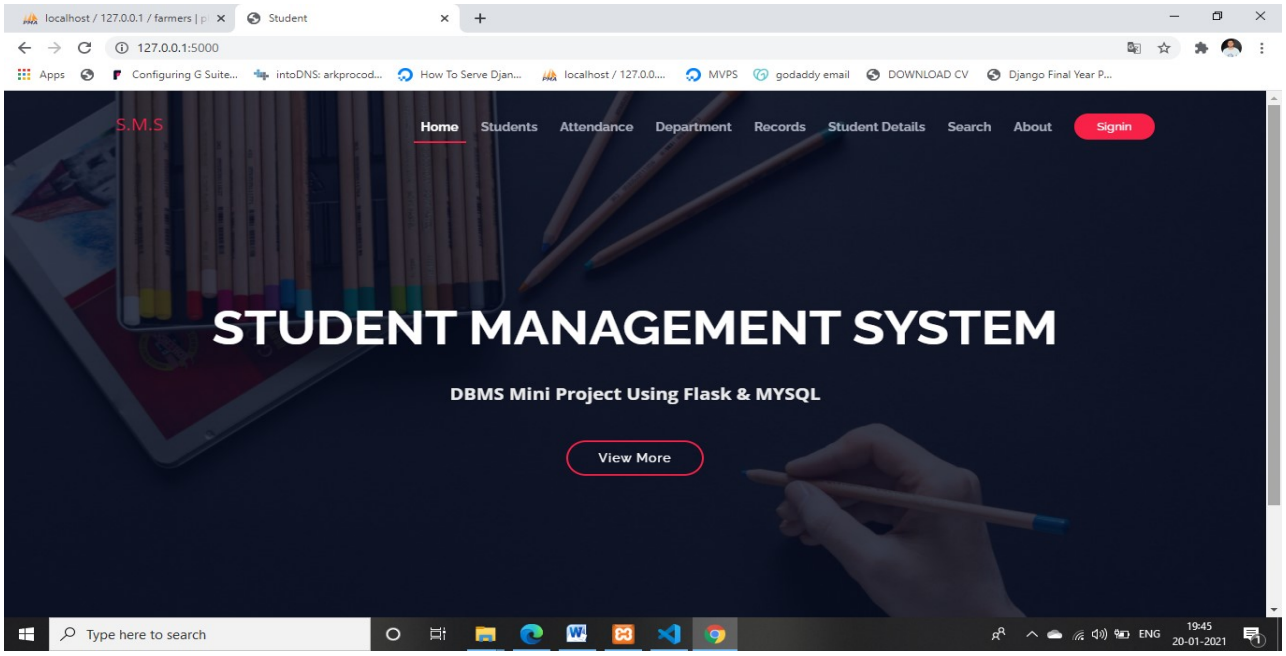
USER INTERFACE

4.1 SCREEN SHOTS

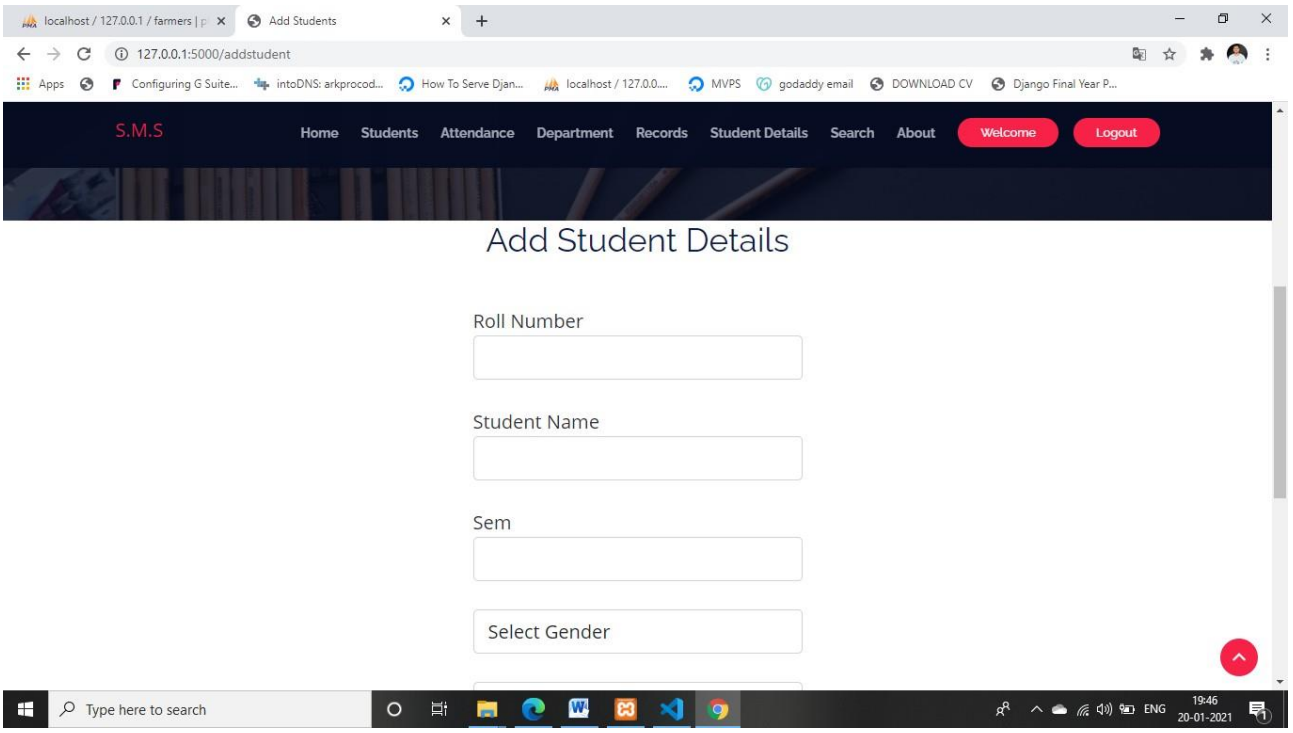
LOGIN PAGE:



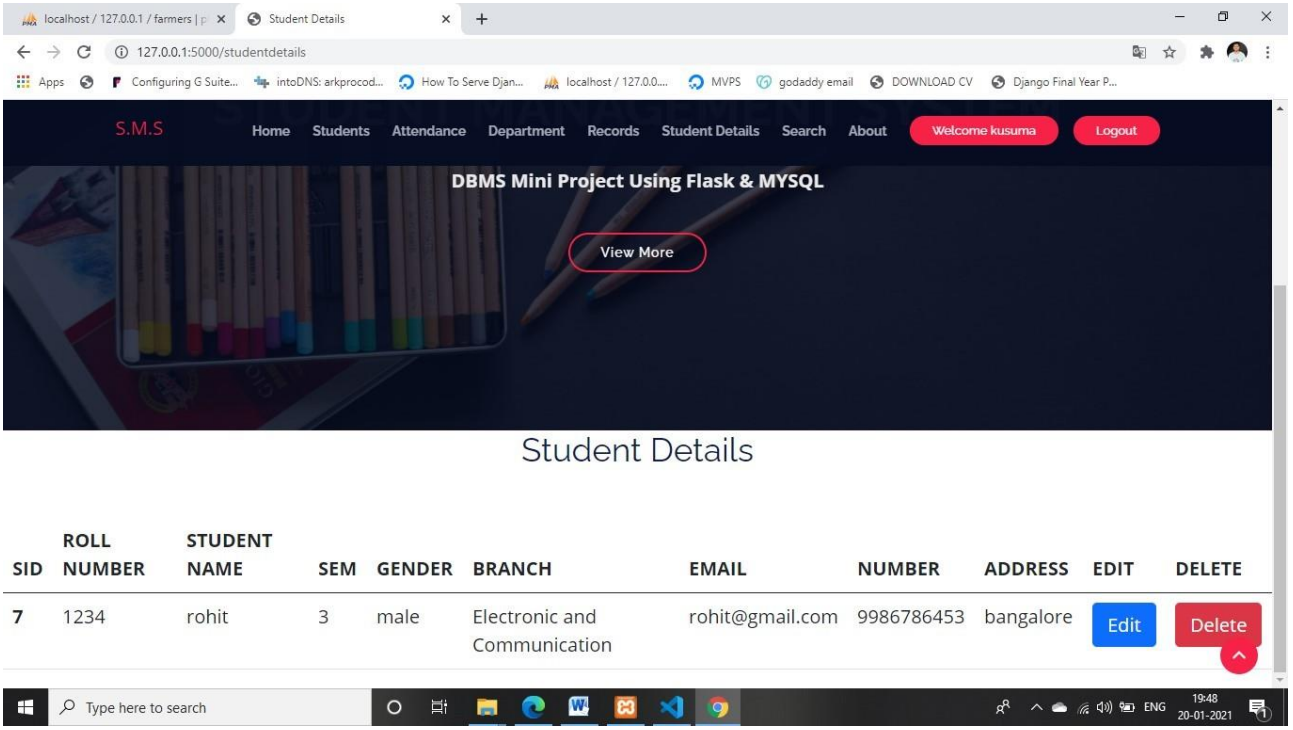
USER INTERFACE



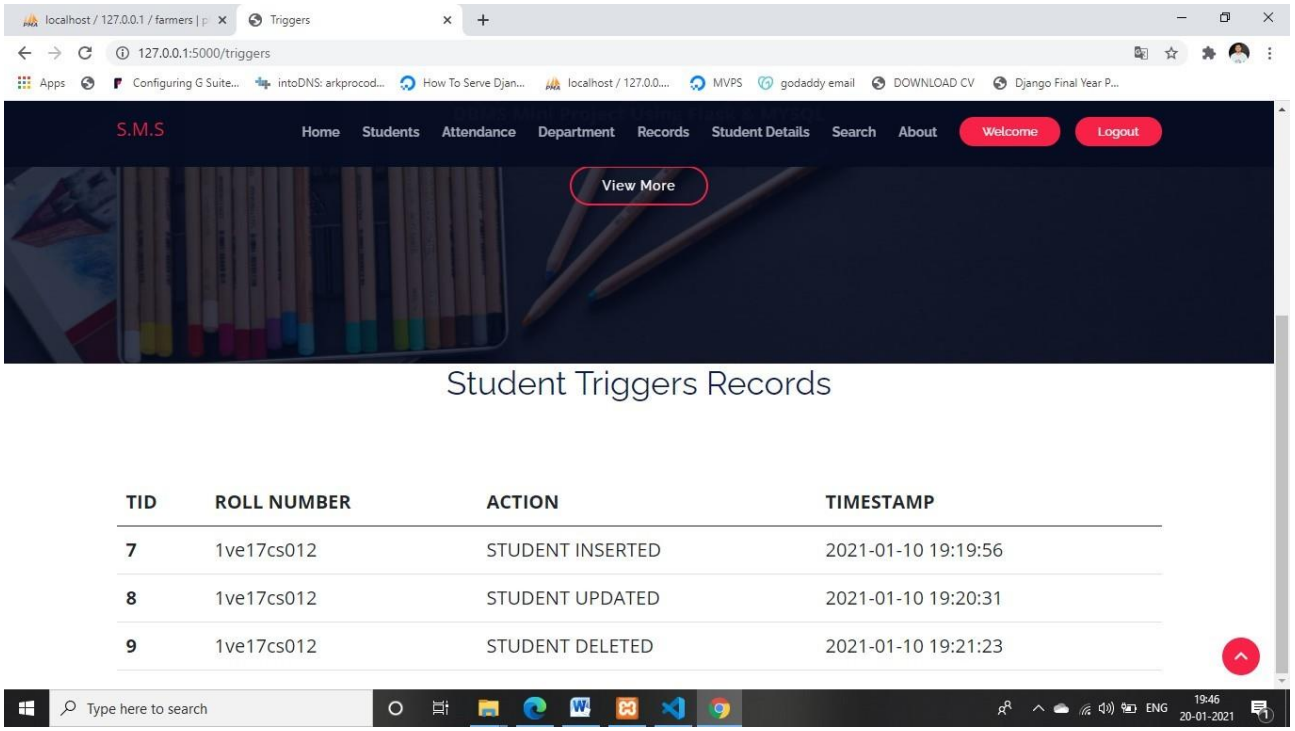
ADD STUDENTS INFO



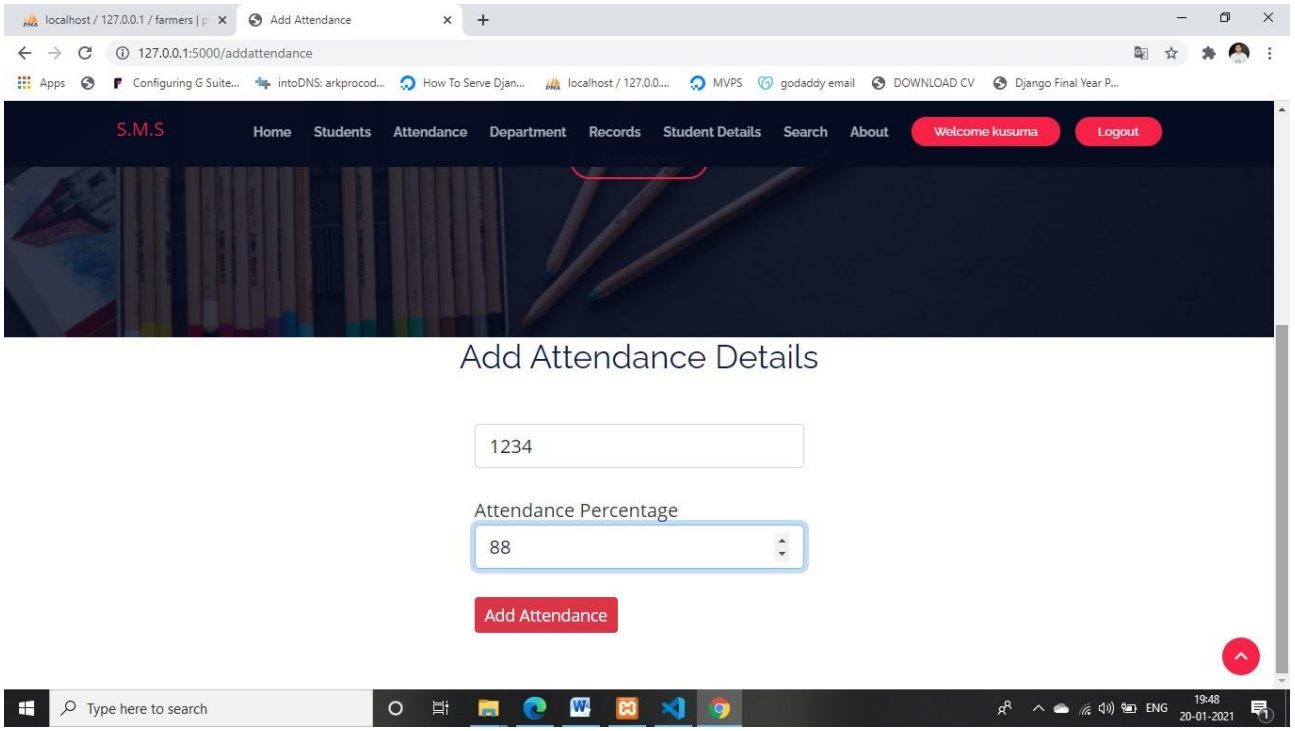
ADD STUDENTS INFO

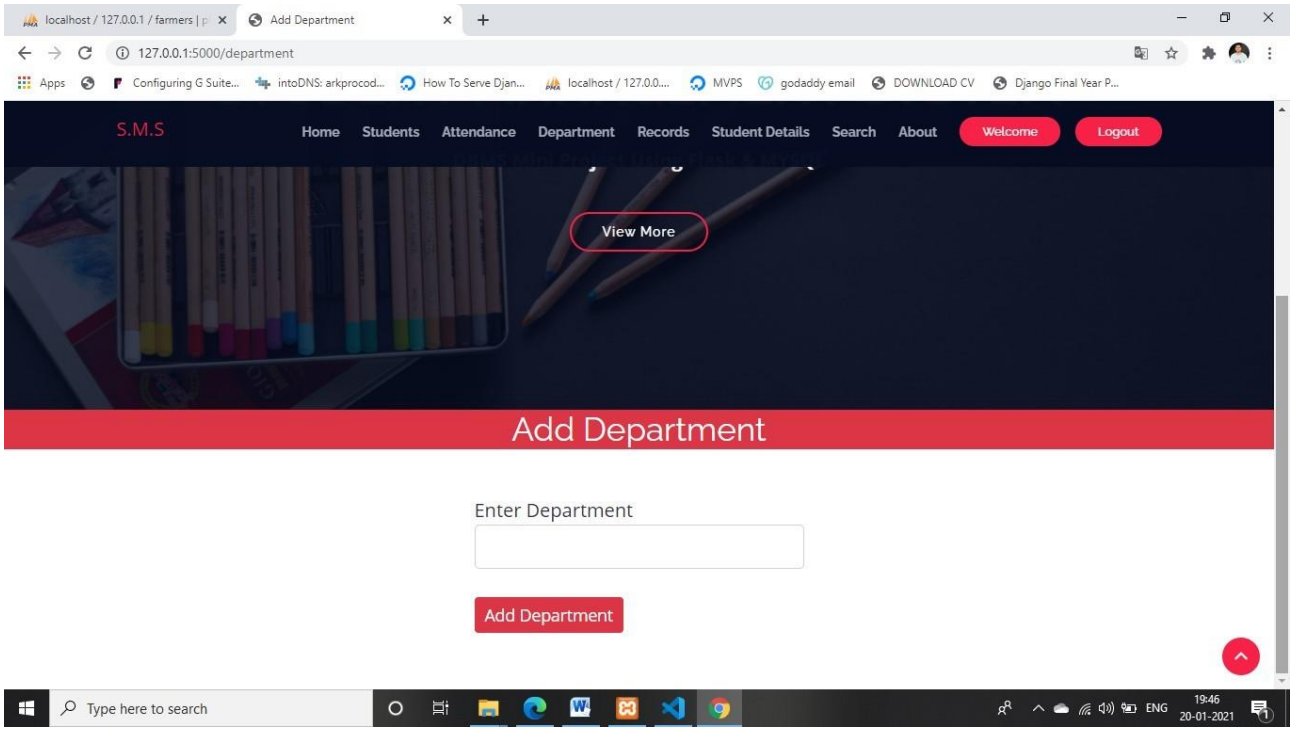


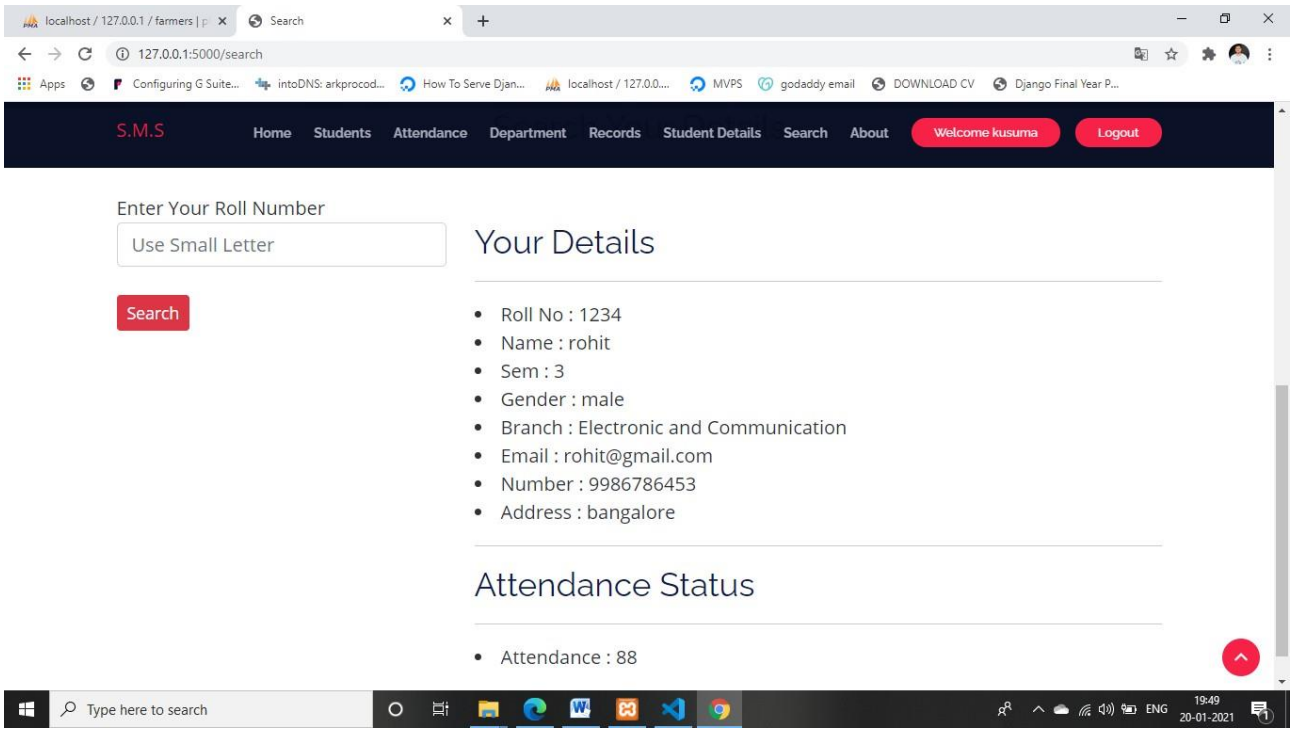
TRIGGERS RECORDS



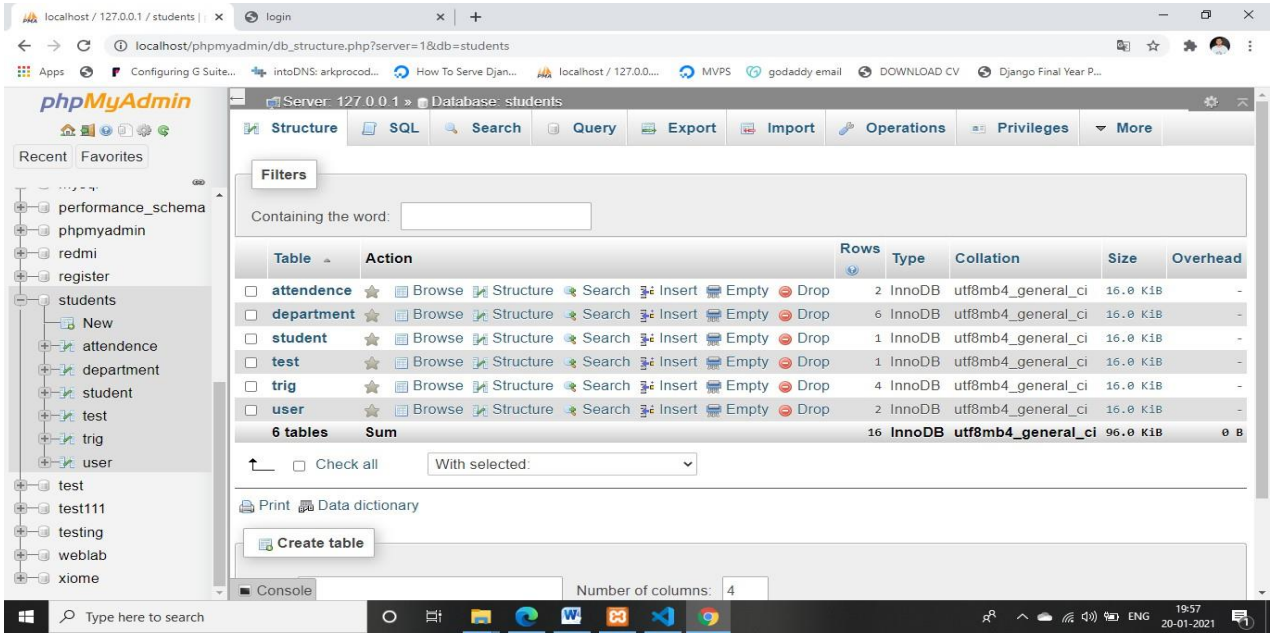
TRIGGERS RECORDS



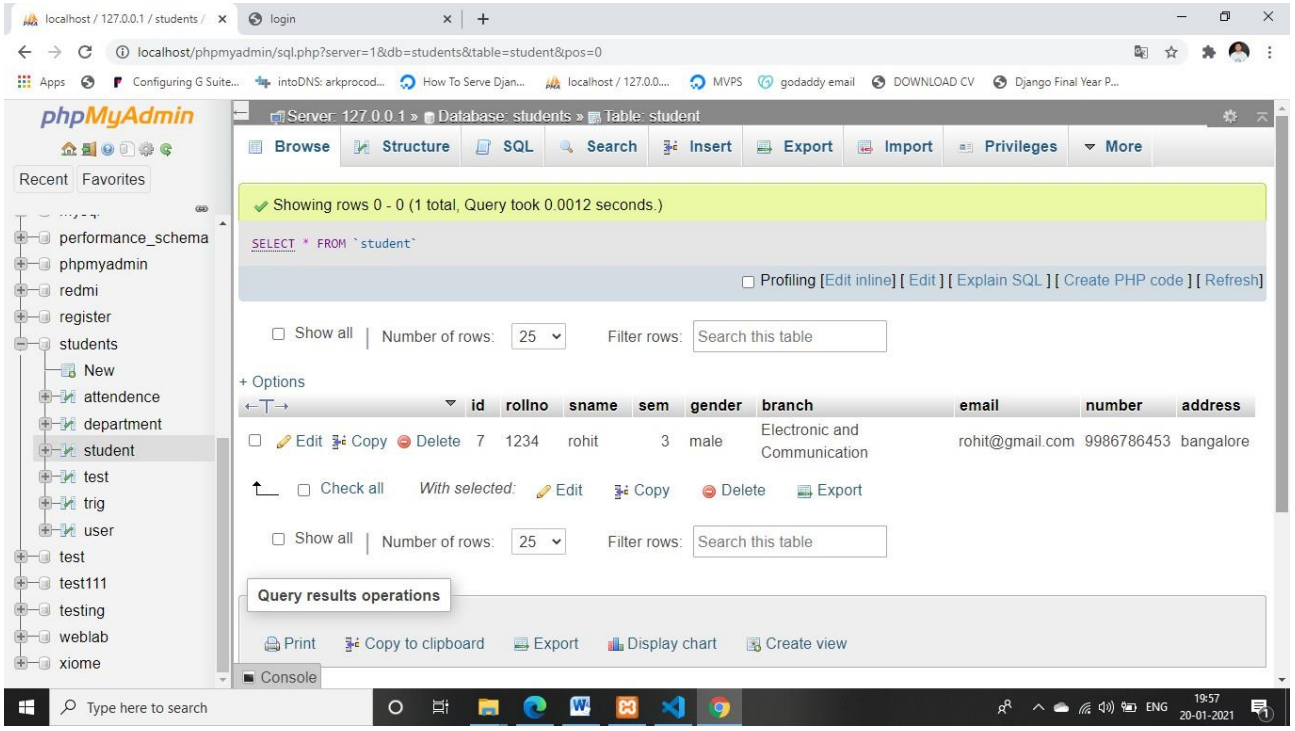

localhost / 127.0.0.1 / farmers | p
Add Department
127.0.0.1:5000/department
Apps
Configuring G Suite...
intoDNS: arkprocod...
How To Serve Djan...
localhost / 127.0.0....
MVPS
godaddy email
DOWNLOAD CV
Django Final Year P...
S.M.S
Home
Students
Attendance
Department
Records
Student Details
Search
About
Welcome
Logout
View More
Add Department
Enter Department
Add Department
Type here to search
ENG
19:46
20-01-2021

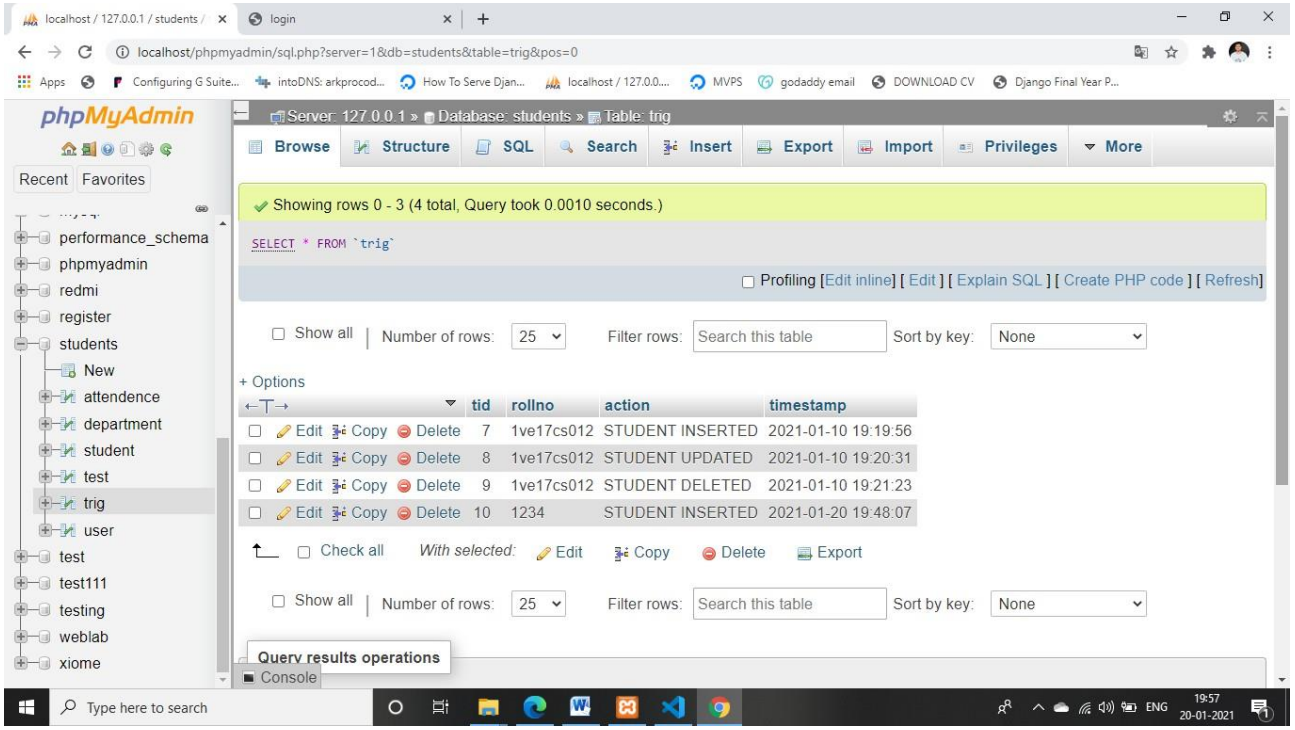

localhost / 127.0.0.1 / farmers | p
Search
127.0.0.1:5000/search
Apps
Configuring G Suite...
intoDNS: arkprocod...
How To Serve Djan...
localhost / 127.0.0....
MVPS
godaddy email
DOWNLOAD CV
Django Final Year P...
S.M.S
Home
Students
Attendance
Department
Records
Student Details
Search
About
Welcome kusuma
Logout
Enter Your Roll Number
Use Small Letter
Search
Your Details
Roll No : 1234
Name : rohit
Sem : 3
Gender : male
Branch : Electronic and Communication
Email : rohit@gmail.com
Number : 9986786453
Address : bangalore
Attendance Status
Attendance : 88
Type here to search
ENG
19:49
20-01-2021

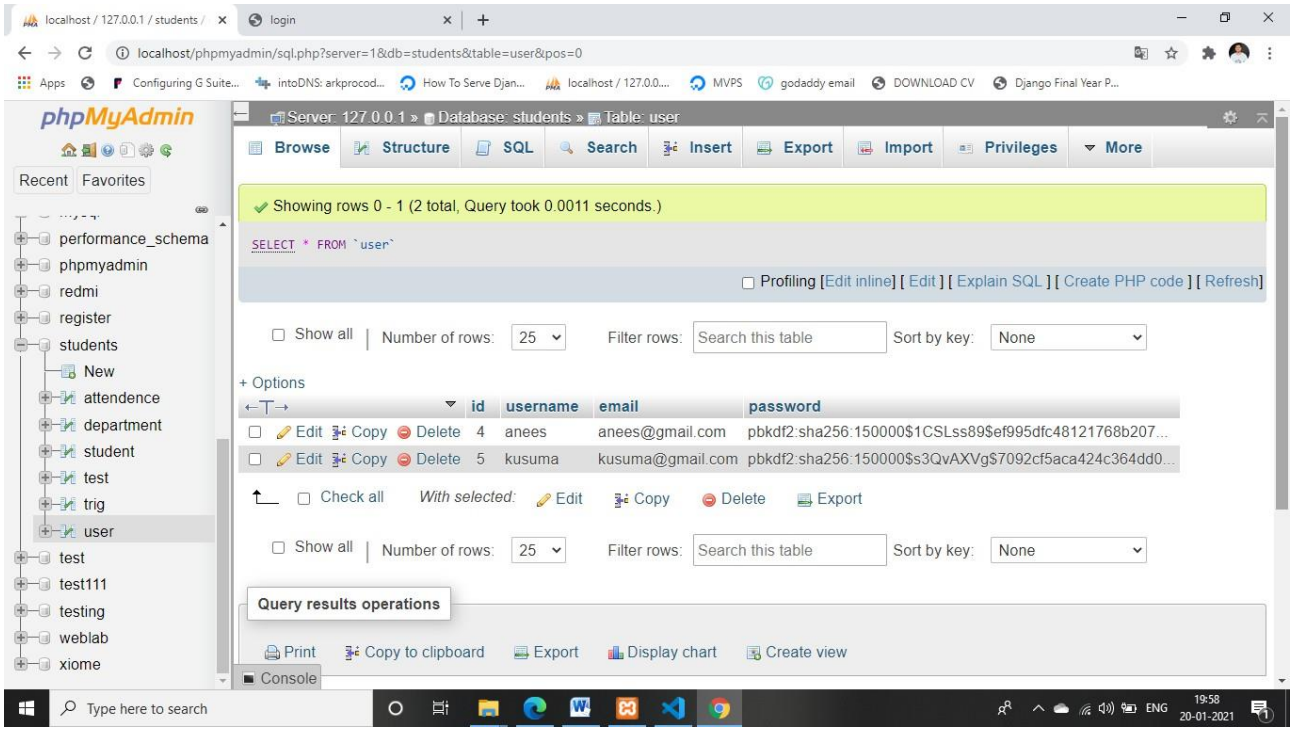
DATABASE LOCALHOST

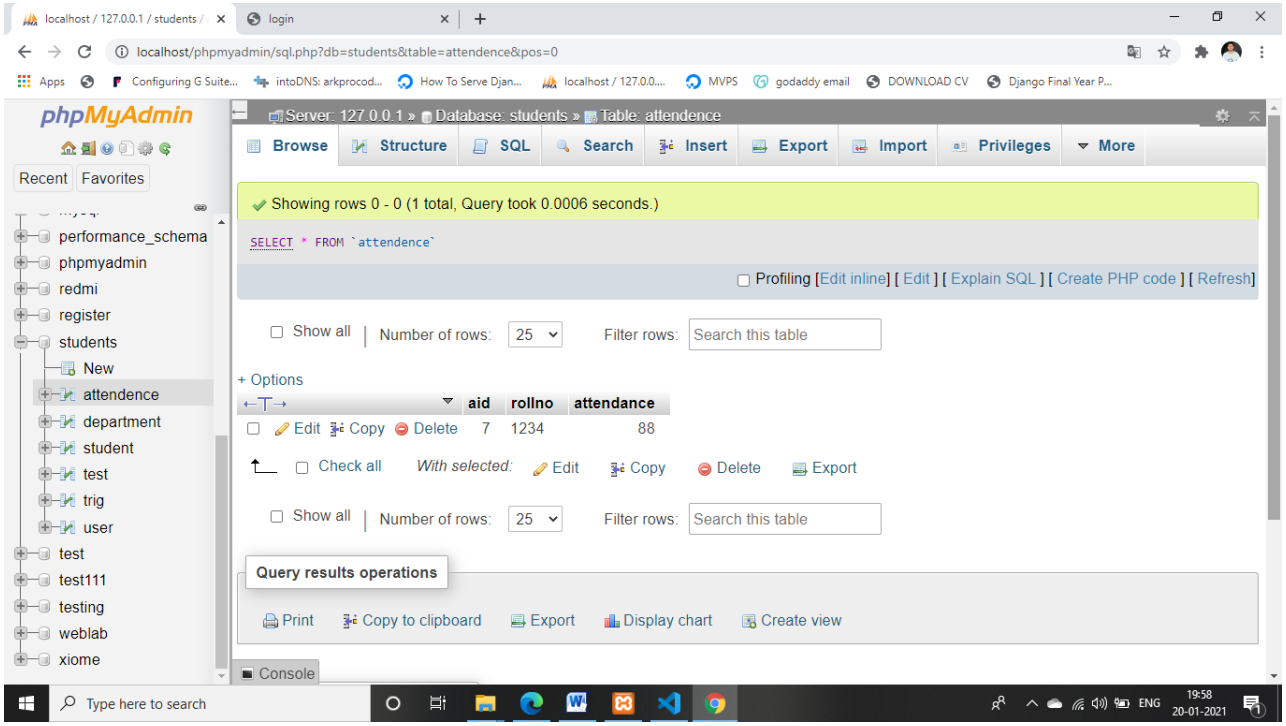


DATABASE LOCALHOST

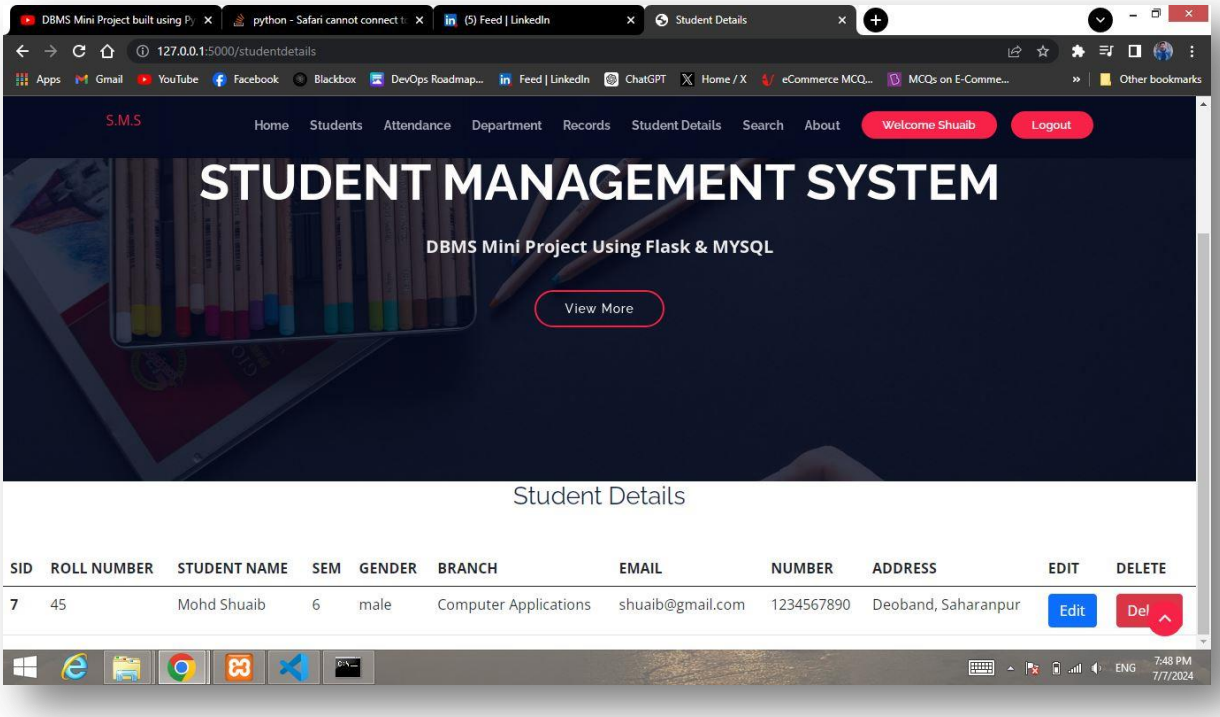



localhost / 127.0.0.1 / students /
login
localhost/phpmyadmin/sql.php?server=1&db=students&table=trig&pos=0
phpMyAdmin
Recent
Favorites
performance_schema
phpmyadmin
redmi
register
students
New
attendence
department
student
test
trig
user
test
test111
testing
weblab
xiome
Server: 127.0.0.1 » Database: students » Table: trig
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
More
Showing rows 0 - 3 (4 total, Query took 0.0010 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
+ Options
tid rollno action timestamp
Edit Copy Delete 7 1ve17cs012 STUDENT INSERTED 2021-01-10 19:19:56
Edit Copy Delete 8 1ve17cs012 STUDENT UPDATED 2021-01-10 19:20:31
Edit Copy Delete 9 1ve17cs012 STUDENT DELETED 2021-01-10 19:21:23
Edit Copy Delete 10 1234 STUDENT INSERTED 2021-01-20 19:48:07
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
Console
Type here to search
ENG
19:57
20-01-2021

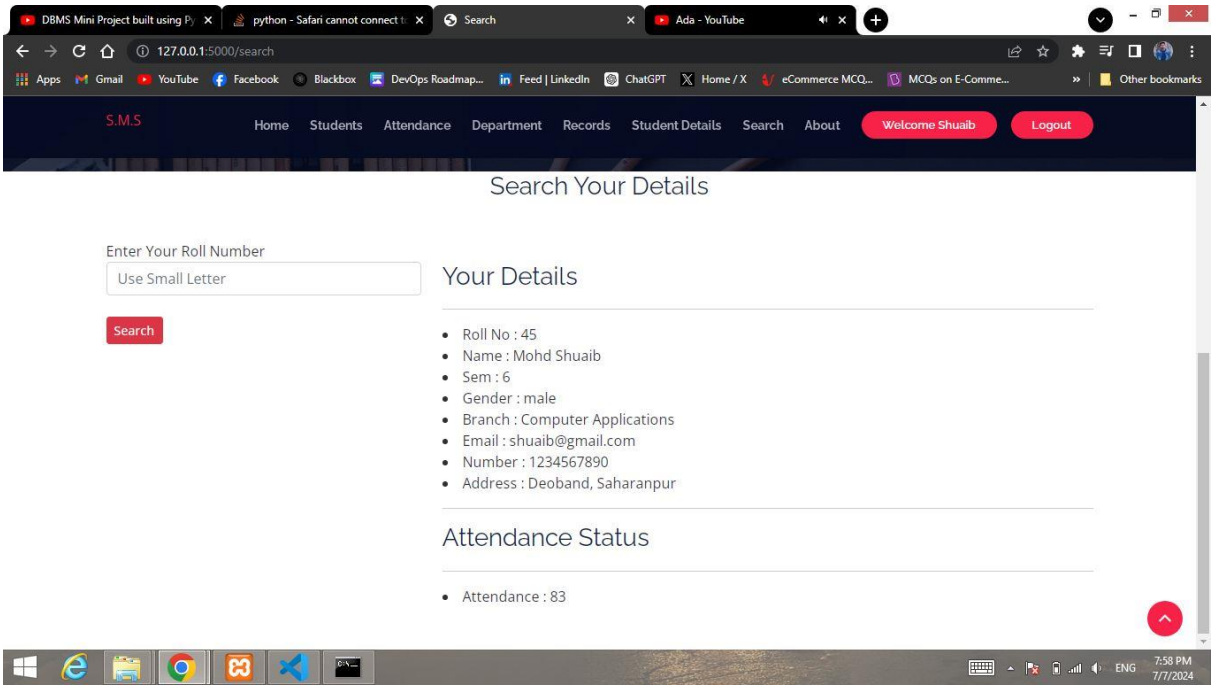

localhost / 127.0.0.1 / students /
login
localhost/phpmyadmin/sql.php?server=1&db=students&table=user&pos=0
phpMyAdmin
Recent Favorites
performance_schema
phpmyadmin
redmi
register
students
New
attendence
department
student
test
trig
user
test
test111
testing
weblab
xiome
Server: 127.0.0.1 » Database: students » Table: user
Browse Structure SQL Search Insert Export Import Privileges More
Showing rows 0 - 1 (2 total, Query took 0.0011 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
+ Options
id username email password
Edit Copy Delete 4 anees anees@gmail.com pbkdf2:sha256:150000$1CSLss89$ef995dfc48121768b207...
Edit Copy Delete 5 kusuma kusuma@gmail.com pbkdf2:sha256:150000$s3QvAXVg$7092cf5aca424c364dd0...
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
Console
Type here to search
ENG
19:58
20-01-2021


localhost / 127.0.0.1 / students /
login
localhost/phpmyadmin/sql.php?db=students&table=attendence&pos=0
phpMyAdmin
Recent
Favorites
performance_schema
phpmyadmin
redmi
register
students
New
attendence
department
student
test
trig
user
test
test111
testing
weblab
xiome
Server: 127.0.0.1 » Database: students » Table: attendence
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
More
Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)
SELECT * FROM `attendence`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all
Number of rows: 25
Filter rows: Search this table
+ Options
aid
rollno
attendance
Edit Copy Delete 7 1234 88
Check all
With selected:
Edit
Copy
Delete
Export
Query results operations
Print
Copy to clipboard
Export
Display chart
Create view
Console
Type here to search
ENG
19:58
20-01-2021

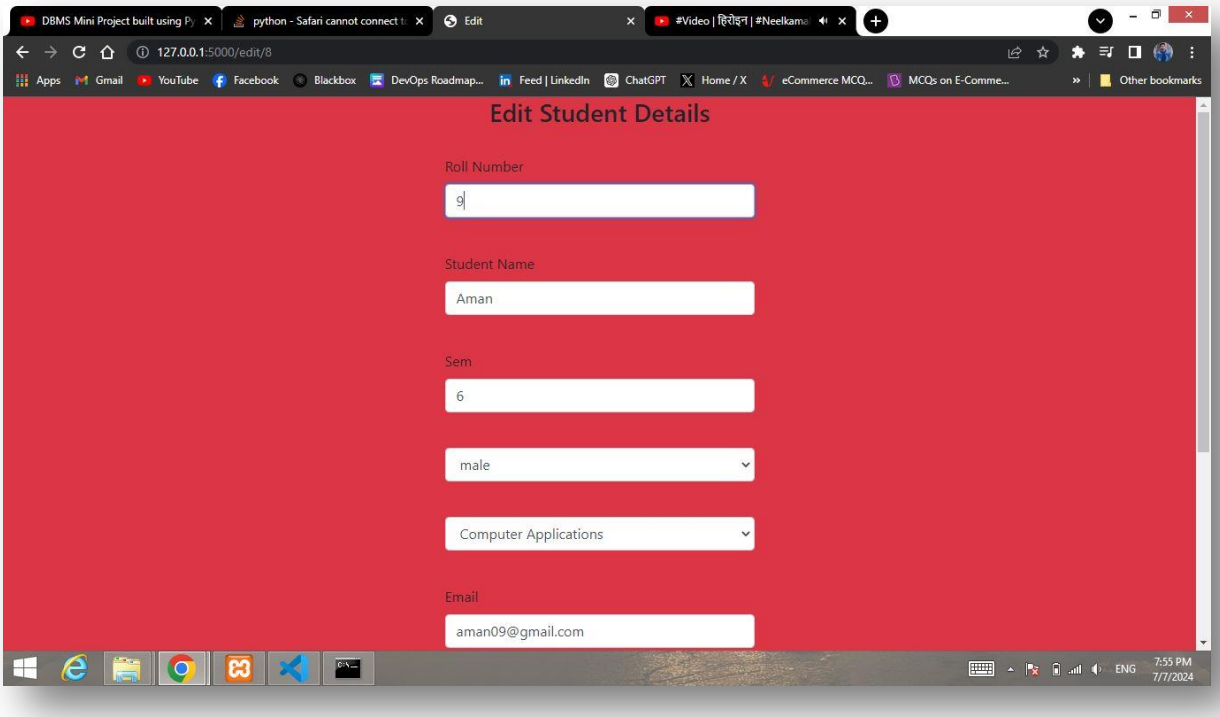
Some more shots while running the project and performing Operations.



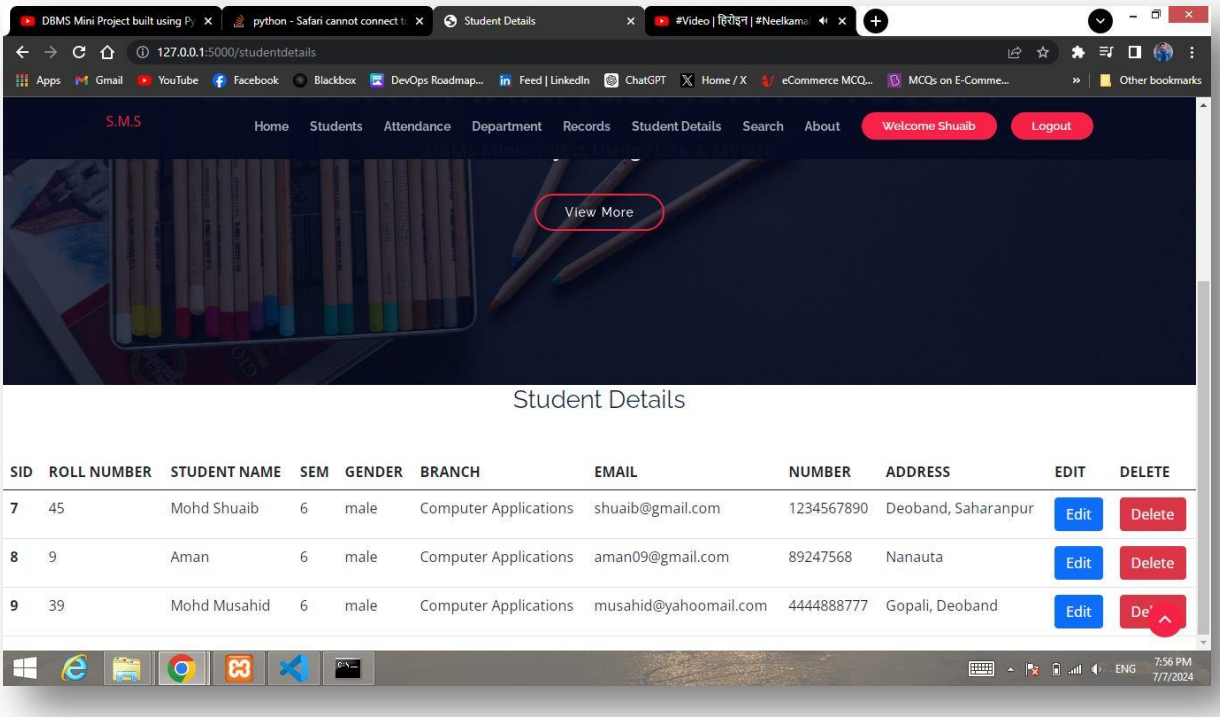
Some more shots while running the project and performing Operations.



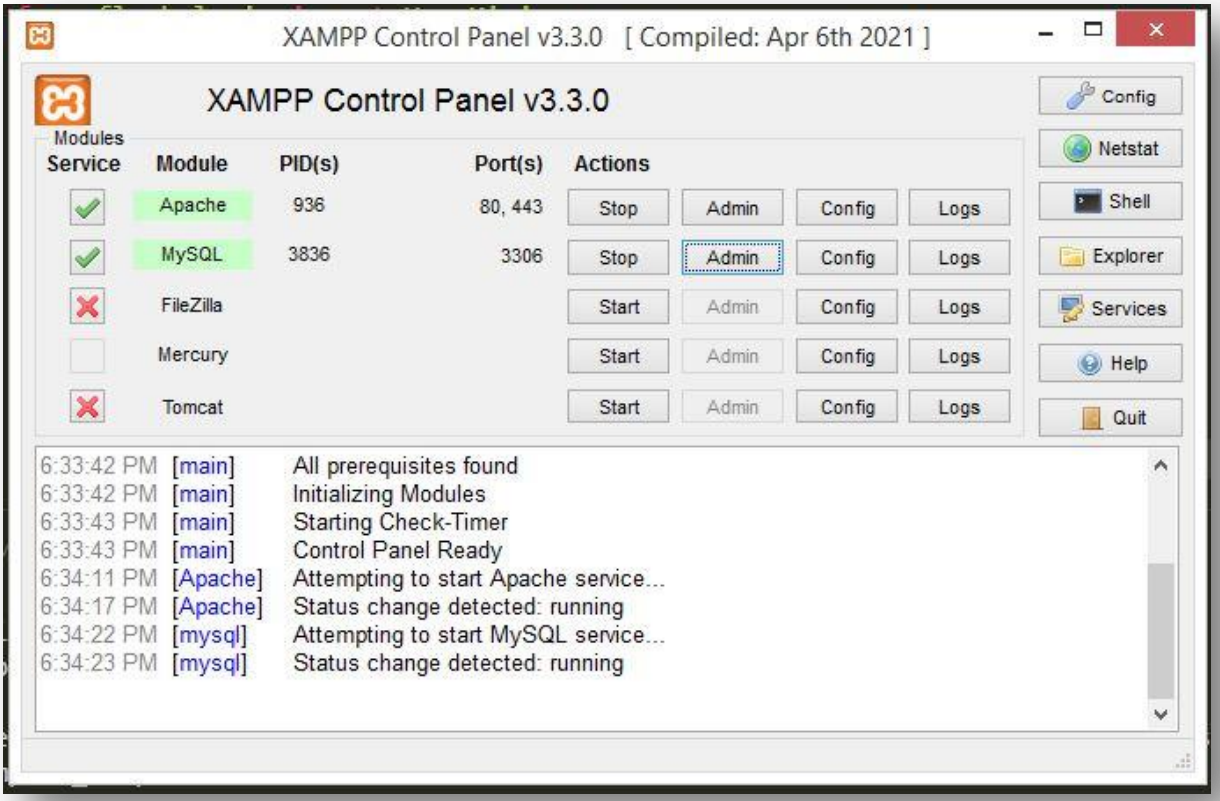
Some more shots while running the project and performing Operations. We can also update the information of the students.



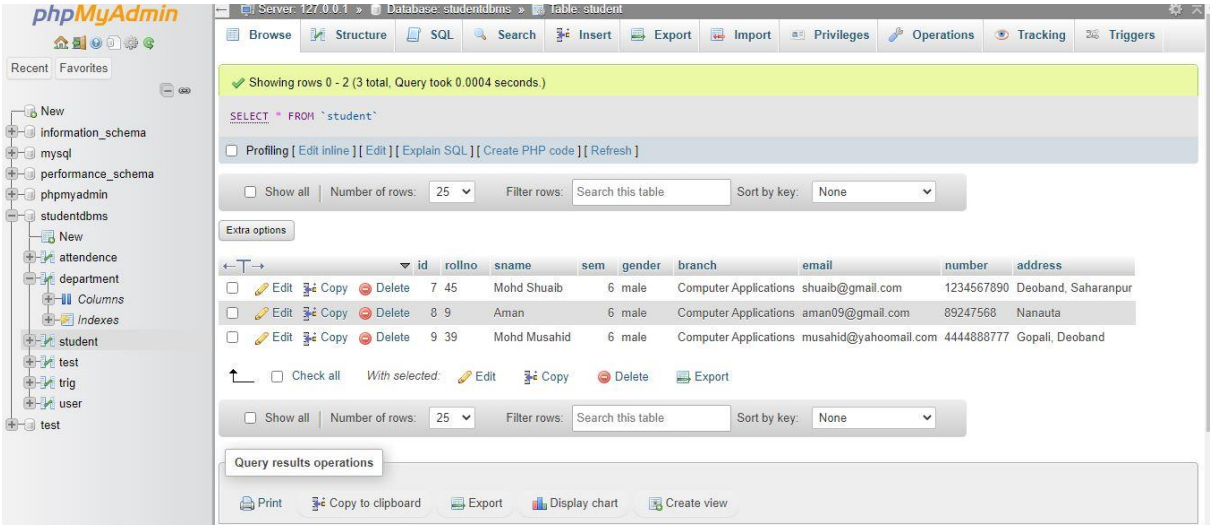
Some more shots while running the project and performing Operations.



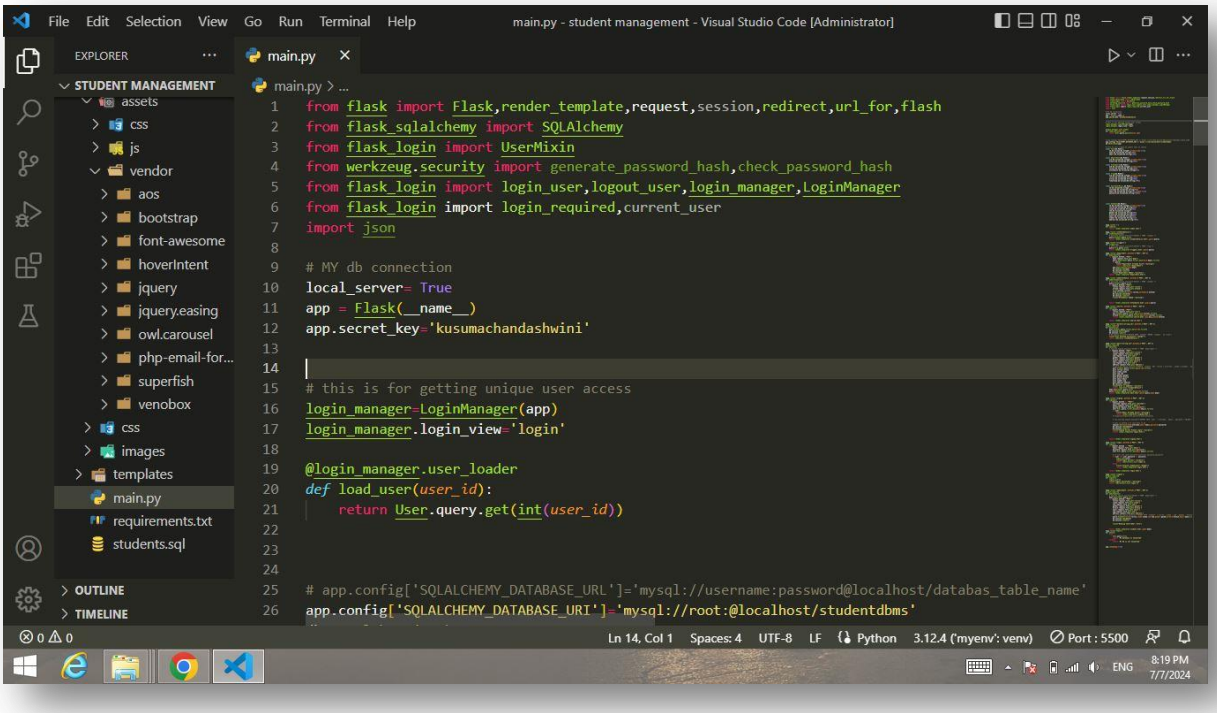
Screenshot of XAMPP Control Panel.



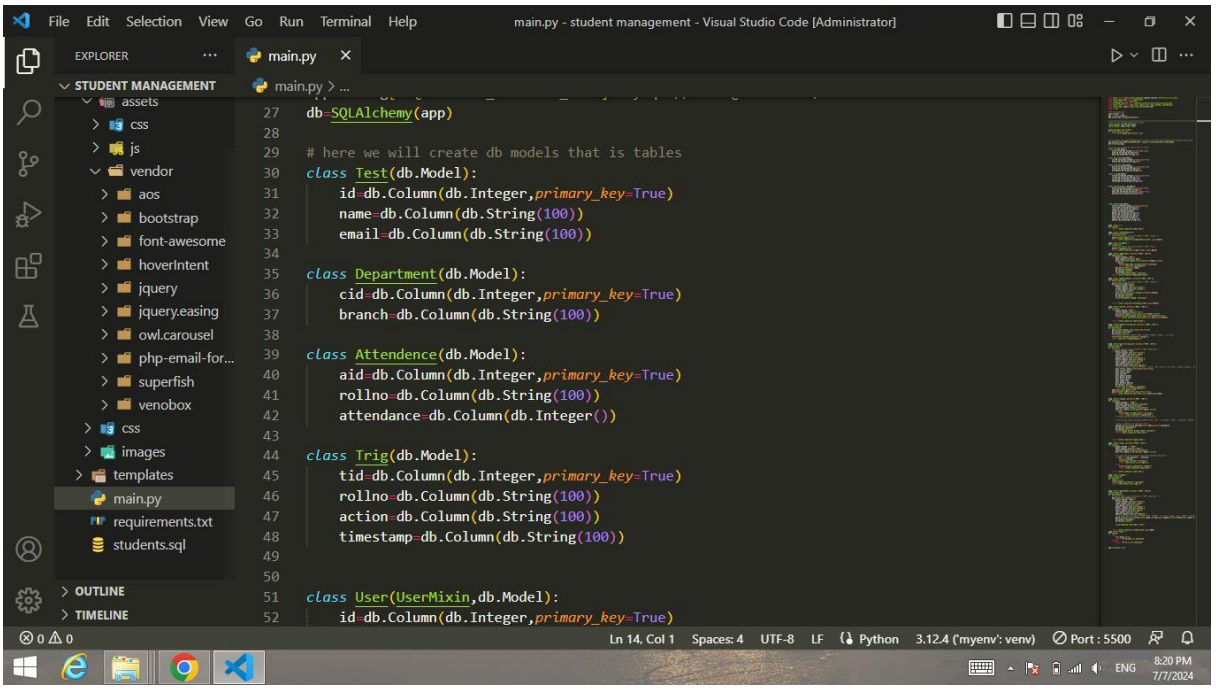
Screenshot of Database.



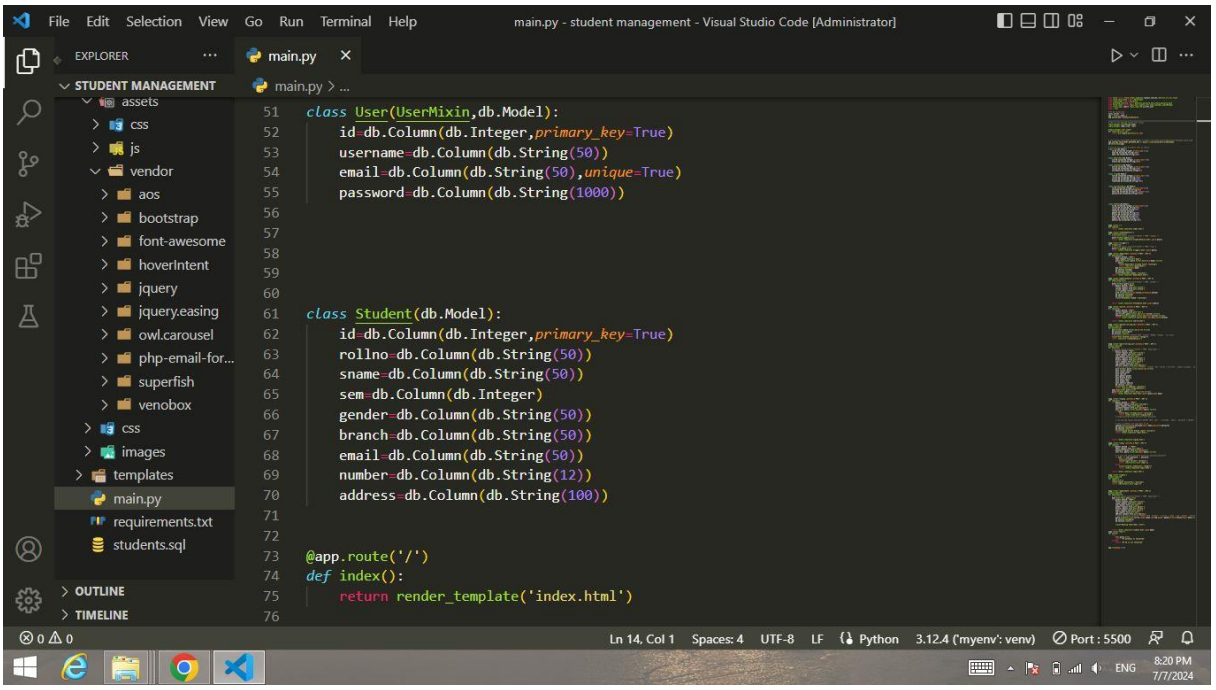
Some shots of the Code written in the code editor VS Code



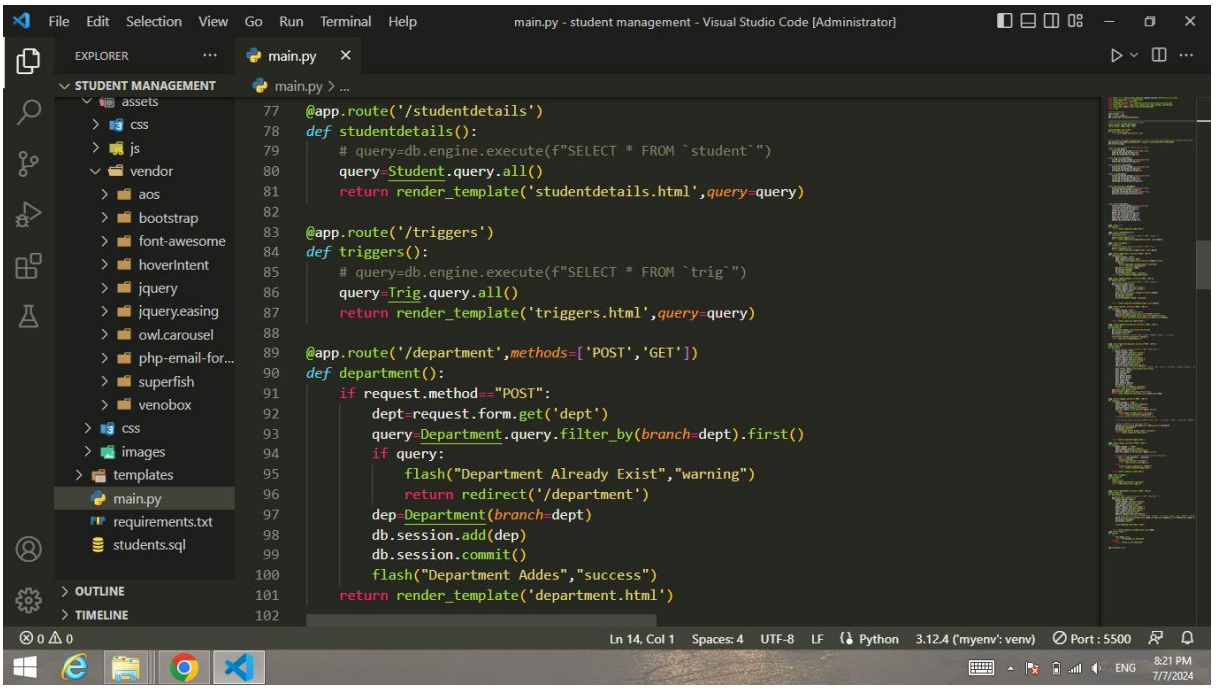
Some shots of the Code written in the code editor VS Code



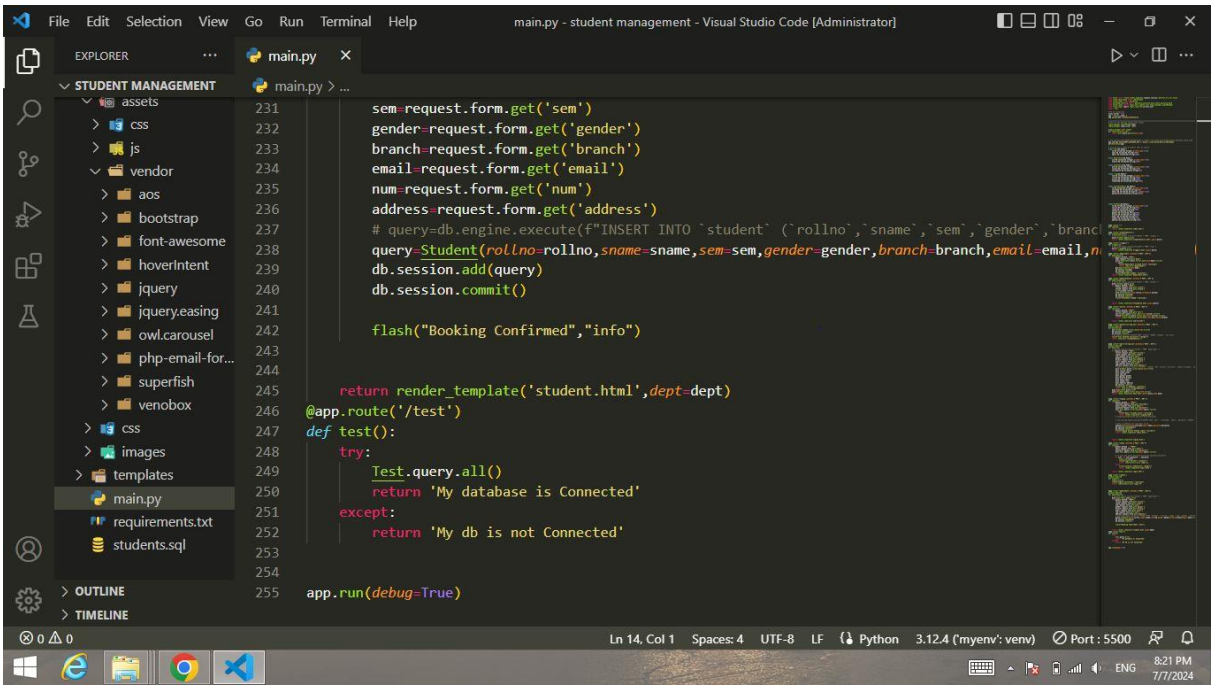
Some shots of the Code written in the code editor VS Code



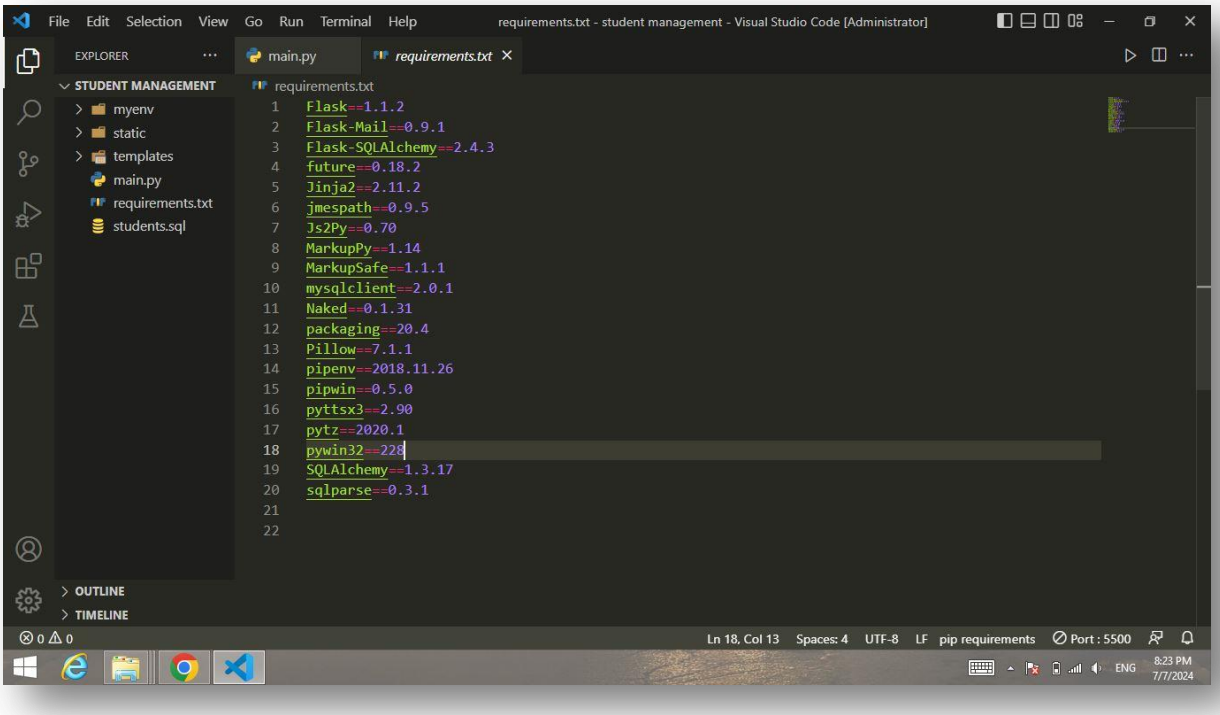
Some shots of the Code written in the code editor VS Code



Some shots of the Code written in the code editor VS Code



A list of all python modules required to run



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.

FUTURE ENHANCEMENT

• Enhanced database storage facility

• Enhanced user friendly GUI

• more advanced results systems

• online feedbacks forms

REFERENCES & BIBILIOGRAPHY

• https://www.youtube.com

• https://www.google.com

• http://www.getbootstrap.com

Python: The Complete reference: Python for Everybody: Exploring Data in Python 3
By Charles R. Severance

Flask: The Complete reference: Flask Web Development
By Miguel Grinberg

Database System Concepts: SQL, MySQL By Dr. Charles R. Severance

Study Materials: Many books of various BCA semesters along with that online websites such as GeeksForGeeks, JavaTPoint, Etc.