AMITY INTERNATIONAL SCHOOL SECTOR - 46 GURUGRAM

Computer Science Project

(Session 2022-23)

Project Title-

School Management System

Submitted by:-

Name: Raghvi Gupta

Roll No:

Class: XII B

Index

Certificate

This is to certify that this project titled **School Management System** prepared by **Raghvi Gupta** of class **XII-B** of Amity International School, Sector46, Gurgaon, Haryana, under the guidance of Mrs. Gurminder Kaur , Teacher In-charge of Computer Science (CS), has submitted the same for evaluation as a partial fulfilment of curriculum for the session 2022-23. This is also certified that the project is originally written and does not indulge in any form of plagiarism. It is acknowledged that a lot of information and understanding has been collected / sourced from various sources that are already published and are accessible to the general public which are separately acknowledged at the end of the report.

…… ……

Signature of Student

Name:

Roll No:

Signature of Teacher/Guide

Mrs. Gurminder Kaur

…….……

Signature of Principal

Name: Mrs. ARTI CHOPRA

Principal, AISG-46

Acknowledgement

At the onset I must express my heartfelt thanks and gratitude to the Principal Madam and the School Management for inspiring us to take challenges and work on practical projects.

I sincerely acknowledge the support and guidance of my Computer Science teacher, Mrs. Gurminder Kaur in completing this Project Report successfully and in time.

I would also like to acknowledge the contributions of all the TEAM MEMBERS.

Title of the Project

The purpose of the project is to compute the requirements of the **School Management System**

And such to add a student/teacher , display the list of students/ teachers, search student/teacher, increase marks of any student, fee details and many more.

Team Members

- Raghvi Gupta (XII-B)
- Sanya Khetarpal (XII-B)

Problem Definition

The school management system organizes the day-to-day functions of the educational institutions.

It makes data about students and staff more easily accessible.

The data is stored securely on the system.

It provides one central place for all school-related information like school events, student data, staff data, fees, library books issued etc.

Such a system is important for the overall functioning of any educational establishment as it helps to increase the productivity and efficiency.

Objective of the Project

The objective of this project is to build a school management system using python and SQL(Structured Query Language) connectivity.

School Management System will be used to manage all the information of the students and faculty in a particular school. It will help to make most of the school activities automatic and simple to conduct. In our project, we will only use it to manage some basic information of the students and employees of a school.

The main aim while implementing this project School Management system were to minimize the work and at the same time increase the speed of work done. The new system is built with the following objectives:-

1.information retrieval will become easy

2.Maintainence of database will become easy

3.modification to database will become easy.

System requirements

Hardware Requirements:

System requirements for Python Installation:

-Operating system: Linux- Ubuntu 16.04 to 17.10, or Windows 7 to 10, with 2GB RAM

(4GB preferable)

- Python 3.6 and related packages

System requirements for SQL:

-SQL Server requires a minimum of 6 GB of available hard-disk space.

-Super-VGA (800x600) or higher resolution monitor

Minimum: x64 Processor Speed: 1.4 GHz

Software Requirements:

for Python:

-Intel Core i5 processor or equivalent 4 GB RAM (8 GB preferred)

-15 GB available hard disk space

-Internet connection

for SQL:

-pip

Source Code

```
import mysql.connector
mydb=mysql.connector.connect(host='localhost',user='root',passwd='amity',database='school_
management')
mycursor=mydb.cursor()

def insert1():#insert student details
    sname=input('Enter name of student')
    admno=int(input('Enter admno no'))
    dob=input('Enter dob- yyyy/mm/dd')
    Class=input('Enter class')
    section=input('Enter section')
    q1="INSERT INTO Student (sname,admno,dob,Class,section) VALUES (%s, %s, %s, %s,
%s)"
    val=(sname,admno,dob,Class,section)
    mycursor.execute(q1,val)
    mydb.commit()


def update1():#update student details
    print("1.Admno")
    print("2.Name")
    print("3.DOB")
    print("4.Class")
    print("5.section")
    ask=int(input("what would you like to update?"))
    if ask==1:
        admno=int(input('enter admno no'))
        change=int(input("Enter new record"))
        q1 = "UPDATE Student SET admno = %s WHERE admno = %s"
        val = (change,admno)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==2:
        admno=int(input('enter admno no'))
        change=input("Enter new record")
        q1 = "UPDATE Student SET sname = %s WHERE admno = %s"
        val = (change,admno)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==3:
        admno=int(input('enter admno no'))
        change=input("Enter new record")
        q1 = "UPDATE Student SET dob = %s WHERE admno = %s"
        val = (change,admno)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==4:
        admno=int(input('enter admno no'))
        change=input("Enter new record")
        q1 = "UPDATE Student SET class = %s WHERE admno = %s"
        val = (change,admno)
```

```
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==5:
        admno=int(input('enter admno no'))
        change=input("Enter new record")
        q1 = "UPDATE Student SET section = %s WHERE admno = %s"
        val = (change,admno)
        mycursor.execute(q1,val)
        mydb.commit()
    else:
        pass


def delete1():#delete student detail
     admno=int(input('Enter the admno no-'))
     q2='Delete from student where admno= '+str(admno)+';'
     mycursor.execute(q2)
     mydb.commit()

def display1():#display student details
   q3='select * from student'
   mycursor.execute(q3)
   results=mycursor.fetchall()
   for i in results:
        print(i)


def insert2():#insert teacher details
   tno=int(input('Enter the teacher id'))
   tname=input('Enter the name of teacher')
   subject=input('Enter the subject')
   hiredate=input('Enter the date of joining-yyyy/mm/dd')
   phoneno=int(input("enter phone no.--"))
   salary=int(input("enter salary--"))
   q1="INSERT INTO Teachers (tno,tname,subject,hiredate,phoneno,salary) VALUES
(%s,%s,%s,%s,%s,%s)"
   val=(tno,tname,subject,hiredate,phoneno,salary)
   mycursor.execute(q1,val)
   mydb.commit()


def update2():#update teacher details
    print("1.tno")
    print("2.tName")
    print("3.subject")
    print("4.hiredate")
    print("5.Phone no")
    print("6.Salary")

    ask=int(input("what would you like to update?"))
    if ask==1:
```

```
        teacherid=int(input('enter id'))
        change=int(input("Enter new record"))
        q1 = "UPDATE teachers SET tno = %s WHERE tno = %s"
        val = (change,teacherid)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==2:
        teacherid=int(input('enter id'))
        change=input("Enter new record")
        q1 = "UPDATE teachers SET tname = %s WHERE tno = %s"
        val = (change,teacherid)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==3:
        teacherid=int(input('enter id'))
        change=input("Enter new record")
        q1 = "UPDATE teachers SET subject = %s WHERE tno = %s"
        val = (change,teacherid)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==4:
        teacherid=int(input('enter id'))
        change=input("Enter new record")
        q1 = "UPDATE teachers SET hiredate = %s WHERE tno = %s"
        val = (change,teacherid)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==5:
        teacherid=int(input('enter id'))
        change=int(input("Enter new record"))
        q1 = "UPDATE teachers SET phoneno = %s WHERE tno = %s"
        val = (change,teacherid)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==6:
        teacherid=int(input('enter id'))
        change=int(input("Enter new record"))
        q1 = "UPDATE teachers SET salary = %s WHERE tno = %s"
        val = (change,teacherid)
        mycursor.execute(q1,val)
        mydb.commit()
    else:
        pass



def delete2():#delete teacher detail
    tno=int(input('Enter the tno no-'))
    q2='Delete from Teachers where tno='+str(tno)+';'
    mycursor.execute(q2)
    mydb.commit()
```

```
def display2():#display teacher details
    q3='select * from Teachers;'
    mycursor.execute(q3)
    results=mycursor.fetchall()
    for i in results:
        print(i)



def insert3():# enter fees
  admno=int(input('Enter the admno'))
  fee=int(input('Enter the fees'))
  q1="INSERT INTO fees (admno,annual_fees) values (%s,%s)"
  val=(admno,fee)
  mycursor.execute(q1,val)
  mydb.commit()


def update3():# update fees
    print("1.Admno")
    print("2.fees")


    ask=int(input("what would you like to update?"))
    if ask==1:
        admno=int(input('enter admno no'))
        change=int(input("Enter new record"))
        q1 = "UPDATE fees SET admno = %s WHERE admno = %s"
        val = (change,admno)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==2:
        admno=int(input('enter admno no'))
        change=int(input("Enter new record"))
        q1 = "UPDATE fees SET annual_fees = %s WHERE admno = %s"
        val = (change,admno)
        mycursor.execute(q1,val)
        mydb.commit()

    else:
        pass

def delete3():
   admno=int(input('Enter the admno of student whose fees record needs to be deleted'))
   q2='Delete from fees where admno='+str(admno)+';'
   mycursor.execute(q2)
   mydb.commit()
```

```
def display3():# display fees
   q3='select * from fees;'
   mycursor.execute(q3)
   results=mycursor.fetchall()
   for i in results:
       print(i)



def insert4():#enter marks
  admno=int(input('Enter the admno'))
  sname=input('Enter the name of student')
  total=int(input('Enter total marks'))
  percentage=float(input('Enter percentage of student'))
  q1="INSERT INTO Marks (admno,sname,total,percentage) VALUES (%s,%s,%s,%s)"
  val=(admno,sname,total,percentage)
  mycursor.execute(q1,val)
  mydb.commit()


def update4():#update marks
    print("1.Admno")
    print("2.Name")
    print("3.total")
    print("4.percentage")

    ask=int(input("what would you like to update?"))
    if ask==1:
       admno=int(input('enter admno no'))
       change=int(input("Enter new record"))
       q1 = "UPDATE marks SET admno = %s WHERE admno = %s;"
       val = (change,admno)
       mycursor.execute(q1,val)
       mydb.commit()
    elif ask==2:
       admno=int(input('enter admno no'))
       change=input("Enter new record")
       q1 = "UPDATE marks SET sname = %s WHERE admno = %s;"
       val = (change,admno)
       mycursor.execute(q1,val)
       mydb.commit()
    elif ask==3:
       admno=int(input('enter admno no'))
       change=int(input("Enter new record"))
       q1 = "UPDATE marks SET total = %s WHERE admno = %s;"
       val = (change,admno)
       mycursor.execute(q1,val)
       mydb.commit()
    elif ask==4:
       admno=int(input('enter admno no'))
       change=eval(input("Enter new record"))
```

```
        q1 = "UPDATE marks SET percentage = %s WHERE admno = %s;"
        val = (change,admno)
        mycursor.execute(q1,val)
        mydb.commit()

    else:
        pass

def delete4():#delete marks
   admno=int(input('Enter the admno of student whose marks record needs to be deleted'))
   q2='Delete from Marks where admno='+str(admno)+';'
   mycursor.execute(q2)
   mydb.commit()


def display4():# display marks
  q3='select * from Marks;'
  mycursor.execute(q3)
  results=mycursor.fetchall()
  for i in results:
      print(i)

def display5():# display upcoming events
  q3='select * from events;'
  mycursor.execute(q3)
  results=mycursor.fetchall()
  for i in results:
      print(i)

def insert6():#insert book record
  bookid=int(input('Enter the bookid'))
  bookname=input('Enter the name of book')
  author=input('Enter author name')
  q1="INSERT INTO Books (bookid,bookname,author) VALUES (%s,%s,%s)"
  val=(bookid,bookname,author)
  mycursor.execute(q1,val)
  mydb.commit()

def update6():# update book record
    print("1.Bookid")
    print("2.Bookname")
    print("3.author")
    ask=int(input("what would you like to update?"))
    if ask==1:
        bookid=int(input('enter bookid'))
        change=int(input("Enter new record"))
        q1 = "UPDATE Books SET bookid = %s WHERE bookid = %s"
        val = (change,bookid)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==2:
```

```
        bookid=int(input('enter bookid'))
        change=input("Enter new record")
        q1 = "UPDATE Books SET bookname = %s WHERE bookid = %s"
        val = (change,bookid)
        mycursor.execute(q1,val)
        mydb.commit()

    elif ask==3:
        bookid=int(input('enter bookid'))
        change=input("Enter new record")
        q1 = "UPDATE Books SET author = %s WHERE bookid = %s"
        val = (change,bookid)
        mycursor.execute(q1,val)
        mydb.commit()

def delete6():# delete book record
   bookid=int(input('Enter the bookid of book whose record needs to be deleted'))
   q2='Delete from Books where bookid='+str(bookid)+';'
   mycursor.execute(q2)
   mydb.commit()

def display6():# display book records
  q3='select * from Books;'
  mycursor.execute(q3)
  results=mycursor.fetchall()
  for i in results:
      print(i)

def insert7():#add class attendance
  class1=input('Enter the class')
  teacher=input('Enter the name of class teacher')
  date=input("Enter date yyyy/mm/dd")
  strength=int(input('enter class strength'))
  absentees=int(input('enter number of absentees'))
  q1="INSERT INTO sattendance (class,classteacher,date,strength,absentees) VALUES
(%s,%s,%s,%s,%s)"
  val=(class1,teacher,date,strength,absentees)
  mycursor.execute(q1,val)
  mydb.commit()

def update7():#update attendance
    print("1.Class")
    print("2.class teacher")
    print("3.date")
    print("4.strength")
    print("5.absentees")
    ask=int(input("what would you like to update?"))
    if ask==1:
        class1=input('enter the class')
        change=input("Enter new record")
```

```
        q1 = "UPDATE sattendance SET class = %s WHERE class = %s"
        val = (change,class1)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==2:
        class1=input('enter the class')
        change=input("Enter new record")
        q1 = "UPDATE sattendance SET classteacher = %s WHERE class = %s"
        val = (change,class1)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==3:
        class1=input('enter the class')
        change=input("Enter new record")
        q1 = "UPDATE sattendance SET date = %s WHERE class = %s"
        val = (change,class1)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==4:
        class1=input('enter the class')
        change=int(input("Enter new record"))
        q1 = "UPDATE sattendance SET strength = %s WHERE class = %s"
        val = (change,class1)
        mycursor.execute(q1,val)
        mydb.commit()
    elif ask==5:
        class1=input('enter the class')
        change=int(input("Enter new record"))
        q1 = "UPDATE sattendance SET absentees= %s WHERE class = %s"
        val = (change,class1)
        mycursor.execute(q1,val)
        mydb.commit()


def display7():# display attendabce classwise
  q3='select * from sattendance;'
  mycursor.execute(q3)
  results=mycursor.fetchall()
  for i in results:
      print(i)

while True:
    print('-----------------------------------\nWELCOME TO SCHOOL MANAGEMENT SYSTEM\n-------
---------------------------')
    print("1.STUDENT MANAGEMENT")
    print("2.EMPLOYEE MANAGEMENT")
    print("3.FEE MANAGEMENT")
    print("4.EXAM MANAGEMENT")
    print("5.UPCOMING EVENTS")
    print("6.LIBRARY MANAGEMENT")
    print("7.CLASSWISE ATTENDANCE")
```

```
print("8.EXIT")
ch=int(input('enter your choice'))


if ch==1:
    print('\nWELCOME TO STUDENT MANAGEMENT SYSTEM\n')
    print('a.NEW ADMISSION')
    print('b.UPDATE STUDENT DETAILS')
    print('c.ISSUE TC')
    print("d.DISPLAY RECORDS")
    c=input('enter your choice')
    if c=='a':
        insert1()
        display1()
    elif c=='b':
        update1()
        display1()
    elif c=='c':
        delete1()
        display1()
    elif c=='d':
        display1()
    else:
        print('Enter correct choice...!!') #loop
if ch==2:
    print('WELCOME TO TEACHER MANAGEMENT SYSTEM')
    print('a.NEW TEACHER')
    print('b.UPDATE TEACHER DETAILS')
    print('c.DELETE TEACHER RECORD')
    print("d.DISPLAY RECORDS")
    c=input("Enter your choice : ")
    if c=='a':
        insert2()
        display2()
    elif c=='b':
        update2()
        display2()
    elif c=='c':
        delete2()
        display2()
    elif c=='d':
        display2()
    else:
        print('Enter correct choice...!!')
if ch==3:
    print('WELCOME TO FEE MANAGEMENT SYSTEM')
    print('a.NEW FEE')
    print('b.UPDATE FEE')
    print('c.EXEMPT FEE')
    print("d.DISPLAY RECORDS")
    c=input("Enter your choice : ")
```

```
    if c=='a':
        insert3()
        display3()
    elif c=='b':
        update3()
        display3()
    elif c=='c':
        delete3()
        display3()
    elif c=='d':
        display3()
    else:
        print('Enter correct choice...!!')


elif ch==4:
    print('WELCOME TO EXAM MANAGEMENT SYSTEM')
    print('a.ENTER EXAM DETAILS')
    print('b.UPDATE DETAILS ')
    print('c.DELETE DETAILS')
    print("d. VIEW EXAM DETAILS")
    c=input("Enter your choice : ")
    if c=='a':
        insert4()
        display4()
    elif c=='b':
        update4()
        display4()
    elif c=='c':
        delete4()
        display4()
    elif c=='d':
        display4()

    else:
        print('Enter correct choice...!!')
elif ch==5:
    display5()

elif ch==6:
    print('WELCOME TO LIBRARY MANAGEMENT SYSTEM')
    print('a.ENTER BOOK DETAILS')
    print('b.UPDATE DETAILS ')
    print('c.DELETE DETAILS')
    print("d. VIEW BOOK DETAILS")
    c=input("Enter your choice : ")
    if c=='a':
        insert6()
        display6()
    elif c=='b':
        update6()
```

```
            display6()
        elif c=='c':
            delete6()
            display6()
        elif c=='d':
            display6()

        else:
            print('Enter correct choice...!!')
    elif ch==7:
        print('WELCOME TO CLASSWISE ATTENDANCE')
        print('a.ENTER ATTENDANCE')
        print('b.UPDATE DETAILS ')
        print("c. VIEW ATTENDANCE")
        c=input("Enter your choice : ")
        if c=='a':
            insert7()
            display7()
        elif c=='b':
            update7()
            display7()
        elif c=='c':
            display7()

        else:
            print('Enter correct choice...!!')

    elif ch==8:
        print("THANKYOU")
        break
```

Output Screens

Tables:

```
mysql> select* from student;
+-------+---------+------------+-------+---------+
| admno | sname   | dob        | class | section |
+-------+---------+------------+-------+---------+
|     1 | Raghvi  | 2002-05-21 | xii   | F       |
|     2 | Devisha | 2012-12-17 | XII   | B       |
|     3 | Rajesh  | 2008-05-01 | XI    | C       |
|     4 | Sanya   | 2005-04-13 | XII   | B       |
|     5 | manya   | 2001-02-22 | II    | G       |
+-------+---------+------------+-------+---------+
5 rows in set (0.00 sec)
```

```
mysql> select* from teachers;
+-----+----------+---------+------------+------------+
| tno | tname    | subject | hiredate   | phoneno    |
+-----+----------+---------+------------+------------+
|   1 | Sumita   | Maths   | 2020-02-05 | 9999900000 |
|   2 | Amita    | Hindi   | 2020-03-05 | 9999900000 |
|   3 | Purnima  | English | 2019-05-22 | 9999900000 |
|   4 | Sangeeta | Chem    | 2018-12-17 | 9999900000 |
|   5 | Gurminder| CS      | 2022-12-10 | 9999900000 |
+-----+----------+---------+------------+------------+
5 rows in set (0.00 sec)
```

```
mysql> select* from fees;
+-------+-------------+
| admno | annual_fees |
+-------+-------------+
|     1 |       10000 |
|     2 |       12000 |
|     3 |       14000 |
|     4 |        9000 |
|     5 |        1000 |
+-------+-------------+
5 rows in set (0.00 sec)
```

```
mysql> select* from marks;
+-------+---------+-------+------------+
| admno | sname   | total | percentage |
+-------+---------+-------+------------+
|     1 | Rahul   |   499 |         99 |
|     2 | Amit    |   373 |         80 |
|     3 | Rajesh  |   400 |         85 |
|     4 | Sanya   |   500 |        100 |
|     5 | Devisha |   250 |         50 |
+-------+---------+-------+------------+
5 rows in set (0.00 sec)
```

```
mysql> select * from books;
+--------+----------+--------+
| bookid | bookname | author |
+--------+----------+--------+
|      1 | Flamingo | NCERT  |
|      2 | Vistas   | NCERT  |
+--------+----------+--------+
```

```
mysql> select * from sattendance;
+-------+-------------+------------+----------+-----------+
| class | classteacher | date       | strength | absentees |
+-------+-------------+------------+----------+-----------+
| 12A   | Gurminder    | 2023-01-02 |       35 |         5 |
| 12B   | Yugal        | 2023-01-02 |       36 |         5 |
+-------+-------------+------------+----------+-----------+
2 rows in set (0.00 sec)
```

```
mysql> select * from events;
+------------+------------+
| date       | event      |
+------------+------------+
| 2005-05-01 | Vasudha    |
| 2005-07-01 | Mathamity  |
| 2005-11-08 | Sports Day |
+------------+------------+
3 rows in set (0.00 sec)
```

Output:

```
-----------------------------------
WELCOME TO SCHOOL MANAGEMENT SYSTEM
-----------------------------------
1.STUDENT MANAGEMENT
2.EMPLOYEE MANAGEMENT
3.FEE MANAGEMENT
4.EXAM MANAGEMENT
5.UPCOMING EVENTS
6.LIBRARY MANAGEMENT
7.CLASSWISE ATTENDANCE
8.EXIT

enter your choice1

WELCOME TO STUDENT MANAGEMENT SYSTEM

a.NEW ADMISSION
b.UPDATE STUDENT DETAILS
c.ISSUE TC
d.DISPLAY RECORDS

enter your choicea

Enter name of student Yuvana

Enter admno no6

Enter dob- yyyy/mm/dd2023/01/02

Enter classX

Enter sectionF
(1, 'Raghvi', datetime.date(2002, 5, 21), 'xii', 'F')
(2, 'Devisha', datetime.date(2012, 12, 17), 'XII', 'B')
(3, 'Rajesh', datetime.date(2008, 5, 1), 'XI', 'C')
(4, 'Sanya', datetime.date(2005, 4, 13), 'XII', 'B')
(5, 'manya', datetime.date(2001, 2, 22), 'II', 'G')
(6, ' Yuvana ', datetime.date(2023, 1, 2), 'X', 'F')
-----------------------------------
```

```
enter your choice1

WELCOME TO STUDENT MANAGEMENT SYSTEM

a.NEW ADMISSION
b.UPDATE STUDENT DETAILS
c.ISSUE TC
d.DISPLAY RECORDS

enter your choiceb
1.Admno
2.Name
3.DOB
4.Class
5.section

what would you like to update?4

enter admno no6

Enter new recordXII
(1, 'Raghvi', datetime.date(2002, 5, 21), 'xii', 'F')
(2, 'Devisha', datetime.date(2012, 12, 17), 'XII', 'B')
(3, 'Rajesh', datetime.date(2008, 5, 1), 'XI', 'C')
(4, 'Sanya', datetime.date(2005, 4, 13), 'XII', 'B')
(5, 'manya', datetime.date(2001, 2, 22), 'II', 'G')
(6, 'Yuvana', datetime.date(2023, 1, 2), 'XII', 'F')
-----------------------------------
```

```
enter your choice1

WELCOME TO STUDENT MANAGEMENT SYSTEM

a.NEW ADMISSION
b.UPDATE STUDENT DETAILS
c.ISSUE TC
d.DISPLAY RECORDS

enter your choicec

Enter the admno no-6
(1, 'Raghvi', datetime.date(2002, 5, 21), 'xii', 'F')
(2, 'Devisha', datetime.date(2012, 12, 17), 'XII', 'B')
(3, 'Rajesh', datetime.date(2008, 5, 1), 'XI', 'C')
(4, 'Sanya', datetime.date(2005, 4, 13), 'XII', 'B')
(5, 'manya', datetime.date(2001, 2, 22), 'II', 'G')
-----------------------------------
```

```
enter your choice1

WELCOME TO STUDENT MANAGEMENT SYSTEM

a.NEW ADMISSION
b.UPDATE STUDENT DETAILS
c.ISSUE TC
d.DISPLAY RECORDS

enter your choiced
(1, 'Raghvi', datetime.date(2002, 5, 21), 'xii', 'F')
(2, 'Devisha', datetime.date(2012, 12, 17), 'XII', 'B')
(3, 'Rajesh', datetime.date(2008, 5, 1), 'XI', 'C')
(4, 'Sanya', datetime.date(2005, 4, 13), 'XII', 'B')
(5, 'manya', datetime.date(2001, 2, 22), 'II', 'G')
```

```
enter your choice2
WELCOME TO TEACHER MANAGEMENT SYSTEM
a.NEW TEACHER
b.UPDATE TEACHER DETAILS
c.DELETE TEACHER RECORD
d.DISPLAY RECORDS

Enter your choice : a

Enter the teacher id6

Enter the name of teacherYugal\

Enter the subjectPhysics

Enter the date of joining-yyyy/mm/dd2023/01/02

enter phone no.--9999999999
(1, 'Sumita', 'Maths', datetime.date(2020, 2, 5), '9999900000', 10000)
(2, 'Amita', 'Hindi', datetime.date(2020, 3, 5), '9999900000', 10000)
(3, 'Purnima', 'English', datetime.date(2019, 5, 22), '9999900000', 10000)
(4, 'Sangeeta', 'Chem', datetime.date(2018, 12, 17), '9999900000', 10000)
(5, 'Gurminder', 'CS', datetime.date(2022, 12, 10), '9999900000', 10000)
(6, 'Yugal\\', 'Physics', datetime.date(2023, 1, 2), '9999999999', None)
-----------------------------------
```

```
enter your choice2
WELCOME TO TEACHER MANAGEMENT SYSTEM
a.NEW TEACHER
b.UPDATE TEACHER DETAILS
c.DELETE TEACHER RECORD
d.DISPLAY RECORDS

Enter your choice : b
1.tno
2.tName
3.subject
4.hiredate
5.Phone no
6.Salary

what would you like to update?6

enter id6

Enter new record10000
(1, 'Sumita', 'Maths', datetime.date(2020, 2, 5), '9999900000', 10000)
(2, 'Amita', 'Hindi', datetime.date(2020, 3, 5), '9999900000', 10000)
(3, 'Purnima', 'English', datetime.date(2019, 5, 22), '9999900000', 10000)
(4, 'Sangeeta', 'Chem', datetime.date(2018, 12, 17), '9999900000', 10000)
(5, 'Gurminder', 'CS', datetime.date(2022, 12, 10), '9999900000', 10000)
(6, 'Yugal\\', 'Physics', datetime.date(2023, 1, 2), '9999999999', 10000)
-----------------------------------


enter your choice2
WELCOME TO TEACHER MANAGEMENT SYSTEM
a.NEW TEACHER
b.UPDATE TEACHER DETAILS
c.DELETE TEACHER RECORD
d.DISPLAY RECORDS

Enter your choice : c

Enter the tno no-6
(1, 'Sumita', 'Maths', datetime.date(2020, 2, 5), '9999900000', 10000)
(2, 'Amita', 'Hindi', datetime.date(2020, 3, 5), '9999900000', 10000)
(3, 'Purnima', 'English', datetime.date(2019, 5, 22), '9999900000', 10000)
(4, 'Sangeeta', 'Chem', datetime.date(2018, 12, 17), '9999900000', 10000)
(5, 'Gurminder', 'CS', datetime.date(2022, 12, 10), '9999900000', 10000)
```

```
enter your choice3
WELCOME TO FEE MANAGEMENT SYSTEM
a.NEW FEE
b.UPDATE FEE
c.EXEMPT FEE
d.DISPLAY RECORDS

Enter your choice : a

Enter the admno6

Enter the fees3000
(1, 10000)
(2, 12000)
(3, 14000)
(4, 9000)
(5, 1000)
(6, 3000)
-----------------------------------


enter your choice3
WELCOME TO FEE MANAGEMENT SYSTEM
a.NEW FEE
b.UPDATE FEE
c.EXEMPT FEE
d.DISPLAY RECORDS

Enter your choice : b
1.Admno
2.fees

what would you like to update?2

enter admno no6

Enter new record30000
(1, 10000)
(2, 12000)
(3, 14000)
(4, 9000)
(5, 1000)
(6, 30000)
-----------------------------------
```

```
enter your choice3
WELCOME TO FEE MANAGEMENT SYSTEM
a.NEW FEE
b.UPDATE FEE
c.EXEMPT FEE
d.DISPLAY RECORDS

Enter your choice : c

Enter the admno of student whose fees record needs to be deleted6
(1, 10000)
(2, 12000)
(3, 14000)
(4, 9000)
(5, 1000)
-----------------------------------
```

```
enter your choice4
WELCOME TO EXAM MANAGEMENT SYSTEM
a.ENTER EXAM DETAILS
b.UPDATE DETAILS
c.DELETE DETAILS
d. VIEW EXAM DETAILS

Enter your choice : a

Enter the admno6

Enter the name of studentYuvana

Enter total marks90

Enter percentage of student90
(1, 'Rahul', 499, Decimal('99'))
(2, 'Amit', 373, Decimal('80'))
(3, 'Rajesh', 400, Decimal('85'))
(4, 'Sanya', 500, Decimal('100'))
(5, 'Devisha', 250, Decimal('50'))
(6, 'Yuvana', 90, Decimal('90'))
-----------------------------------
```

```
enter your choice4
WELCOME TO EXAM MANAGEMENT SYSTEM
a.ENTER EXAM DETAILS
b.UPDATE DETAILS
c.DELETE DETAILS
d. VIEW EXAM DETAILS

Enter your choice : b
1.Admno
2.Name
3.total
4.percentage

what would you like to update?2

enter admno no6

Enter new recordAanya
(1, 'Rahul', 499, Decimal('99'))
(2, 'Amit', 373, Decimal('80'))
(3, 'Rajesh', 400, Decimal('85'))
(4, 'Sanya', 500, Decimal('100'))
(5, 'Devisha', 250, Decimal('50'))
(6, 'Aanya', 90, Decimal('90'))
-----------------------------------
```

```
enter your choice4
WELCOME TO EXAM MANAGEMENT SYSTEM
a.ENTER EXAM DETAILS
b.UPDATE DETAILS
c.DELETE DETAILS
d. VIEW EXAM DETAILS

Enter your choice : c

Enter the admno of student whose marks record needs to be deleted6
(1, 'Rahul', 499, Decimal('99'))
(2, 'Amit', 373, Decimal('80'))
(3, 'Rajesh', 400, Decimal('85'))
(4, 'Sanya', 500, Decimal('100'))
(5, 'Devisha', 250, Decimal('50'))
-----------------------------------
```

```
enter your choice5
(datetime.date(2005, 5, 1), 'Vasudha')
(datetime.date(2005, 7, 1), 'Mathamity')
(datetime.date(2005, 11, 8), 'Sports Day')
-----------------------------------
```

```
enter your choice6
WELCOME TO LIBRARY MANAGEMENT SYSTEM
a.ENTER BOOK DETAILS
b.UPDATE DETAILS
c.DELETE DETAILS
d. VIEW BOOK DETAILS

Enter your choice : a

Enter the bookid3

Enter the name of bookcs class 12

Enter author namepreeti arora
(1, 'Flamingo', 'NCERT')
(2, 'Vistas', 'NCERT')
(3, 'cs class 12', 'preeti arora')
-----------------------------------


enter your choice6
WELCOME TO LIBRARY MANAGEMENT SYSTEM
a.ENTER BOOK DETAILS
b.UPDATE DETAILS
c.DELETE DETAILS
d. VIEW BOOK DETAILS

Enter your choice : b
1.Bookid
2.Bookname
3.author

what would you like to update?2

enter bookid3

Enter new recordPreeti Arora
(1, 'Flamingo', 'NCERT')
(2, 'Vistas', 'NCERT')
(3, 'Preeti Arora', 'preeti arora')
-----------------------------------


enter your choice6
WELCOME TO LIBRARY MANAGEMENT SYSTEM
a.ENTER BOOK DETAILS
b.UPDATE DETAILS
c.DELETE DETAILS
d. VIEW BOOK DETAILS

Enter your choice : c

Enter the bookid of book whose record needs to be deleted3
(1, 'Flamingo', 'NCERT')
(2, 'Vistas', 'NCERT')
-----------------------------------
```

```
enter your choice7
WELCOME TO CLASSWISE ATTENDANCE
a.ENTER ATTENDANCE
b.UPDATE DETAILS
c.DELETE DETAILS
d. VIEW ATTENDANCE

Enter your choice : a

Enter the class12C

Enter the name of class teacherManu Sharma

Enter date yyyy/mm/dd2023/01/02

enter class strength33

enter number of absentees3
('12A', 'Gurminder', datetime.date(2023, 1, 2), 35, 5)
('12B', 'Yugal', datetime.date(2023, 1, 2), 36, 5)
('12C', 'Manu Sharma', datetime.date(2023, 1, 2), 33, 3)
-----------------------------------
```

```
enter your choice7
WELCOME TO CLASSWISE ATTENDANCE
a.ENTER ATTENDANCE
b.UPDATE DETAILS
c.DELETE DETAILS
d. VIEW ATTENDANCE

Enter your choice : b
1.Class
2.class teacher
3.date
4.strength
5.absentees

what would you like to update?5

enter the class12C

Enter new record4
('12A', 'Gurminder', datetime.date(2023, 1, 2), 35, 5)
('12B', 'Yugal', datetime.date(2023, 1, 2), 36, 5)
('12C', 'Manu Sharma', datetime.date(2023, 1, 2), 33, 4)
-----------------------------------
```

```
enter your choice7
WELCOME TO CLASSWISE ATTENDANCE
a.ENTER ATTENDANCE
b.UPDATE DETAILS
c.DELETE DETAILS
d. VIEW ATTENDANCE

Enter your choice : d
('12A', 'Gurminder', datetime.date(2023, 1, 2), 35, 5)
('12B', 'Yugal', datetime.date(2023, 1, 2), 36, 5)
('12C', 'Manu Sharma', datetime.date(2023, 1, 2), 33, 4)
-----------------------------------
```

Future Scope of the Project

Python has become increasingly popular since it supports various programs and enables developers to create interactive apps. It is a dynamic, interpreted, free and open-source language.

SQL (Structured Query Language) is well known for managing data. It is a highly efficient record keeping system. It is very popular among data professionals. Leading tech companies rely on relational databases and SQL.

When we do Python-SQL connectivity it helps us to connect to the database server software. A connection is set up to send commands and receive answers, usually in the form of a result set.

In future our system can include accounting system, good backup and restore facility.

This system is extremely flexible, so in future it can be expanded easily and new modules can be added.

All these features give python-sql connectivity a lot of future scope. Various management systems can be made to run through this.

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