create database Hello;

use Hello;

CREATE TABLE IF NOT EXISTS students (

roll\_no VARCHAR(20) PRIMARY KEY,

name VARCHAR(100),

class VARCHAR(20),

section VARCHAR(5),

password VARCHAR(100),

email VARCHAR(100)

);

CREATE TABLE IF NOT EXISTS marks (

roll\_no VARCHAR(20),

subject VARCHAR(50),

marks INT,

PRIMARY KEY (roll\_no, subject),

FOREIGN KEY (roll\_no) REFERENCES students(roll\_no)

);

CREATE TABLE IF NOT EXISTS timetable (

class VARCHAR(20),

section VARCHAR(5),

day VARCHAR(20),

period1 VARCHAR(50),

period2 VARCHAR(50),

period3 VARCHAR(50),

period4 VARCHAR(50),

PRIMARY KEY (class, section, day)

);

ADMIN.PY:

# admin.py

from db\_config import get\_connection

def admin\_menu():

    while True:

        print("""\nAdmin Menu:

1. Add Student

2. Update Student Details

3. Reset Student Password

4. Update Marks

5. View All Students

6. Update Timetable

7. Logout""")

        choice = input("Enter choice: ")

        if choice == '1':

            add\_student()

        elif choice == '2':

            update\_student()

        elif choice == '3':

            reset\_password()

        elif choice == '4':

            update\_marks()

        elif choice == '5':

            view\_students()

        elif choice == '6':

            update\_timetable()

        elif choice == '7':

            print("Logging out...")

            break

        else:

            print("Invalid choice.")

def add\_student():

    con = get\_connection()

    cur = con.cursor()

    roll = input("Roll No: ")

    name = input("Name: ")

    cls = input("Class: ")

    sec = input("Section: ")

    email = input("Email: ")

    password = "student123"

    cur.execute("INSERT INTO students VALUES (%s, %s, %s, %s, %s, %s)", (roll, name, cls, sec, password, email))

    con.commit()

    con.close()

    print("Student added with default password 'student123'.")

def update\_student():

    con = get\_connection()

    cur = con.cursor()

    roll = input("Enter Roll No to update: ")

    name = input("New Name: ")

    email = input("New Email: ")

    cur.execute("UPDATE students SET name=%s, email=%s WHERE roll\_no=%s", (name, email, roll))

    con.commit()

    con.close()

    print("Student details updated.")

def reset\_password():

    con = get\_connection()

    cur = con.cursor()

    roll = input("Enter Roll No to reset password: ")

    cur.execute("UPDATE students SET password='student123' WHERE roll\_no=%s", (roll,))

    con.commit()

    con.close()

    print("Password reset to 'student123'.")

def update\_marks():

    con = get\_connection()

    cur = con.cursor()

    roll = input("Roll No: ")

    subject = input("Subject: ")

    marks = int(input("Marks: "))

    cur.execute("REPLACE INTO marks (roll\_no, subject, marks) VALUES (%s, %s, %s)", (roll, subject, marks))

    con.commit()

    con.close()

    print("Marks updated.")

def view\_students():

    con = get\_connection()

    cur = con.cursor()

    cur.execute("SELECT \* FROM students")

    for row in cur.fetchall():

        print(row)

    con.close()

def update\_timetable():

    con = get\_connection()

    cur = con.cursor()

    cls = input("Class: ")

    sec = input("Section: ")

    day = input("Day: ")

    p1 = input("Period 1: ")

    p2 = input("Period 2: ")

    p3 = input("Period 3: ")

    p4 = input("Period 4: ")

    cur.execute("REPLACE INTO timetable VALUES (%s, %s, %s, %s, %s, %s, %s)", (cls, sec, day, p1, p2, p3, p4))

    con.commit()

    con.close()

    print("Timetable updated.")

Auth.py:

# auth.py

from admin import admin\_menu

from student import student\_menu

from db\_config import get\_connection

def login():

    role = input("Login as (admin/student): ").strip().lower()

    if role == 'admin':

        username = input("Enter admin username: ")

        password = input("Enter admin password: ")

        if username == "admin" and password == "admin123":

            print("Admin login successful.")

            admin\_menu()

        else:

            print("Invalid admin credentials.")

    elif role == 'student':

        roll\_no = input("Enter Roll Number: ")

        password = input("Enter Password: ")

        con = get\_connection()

        cur = con.cursor()

        cur.execute("SELECT \* FROM students WHERE roll\_no=%s AND password=%s", (roll\_no, password))

        result = cur.fetchone()

        con.close()

        if result:

            print(f"Welcome {result[1]}")

            student\_menu(roll\_no)

        else:

            print("Invalid student credentials.")

    else:

        print("Invalid role.")

db\_config.py:

# db\_config.py

import mysql.connector

def get\_connection():

    conn=mysql.connector.connect(

        host="localhost",

        user="root",

        password="root",

        database="hello"

    )

    return conn

if(get\_connection()):

    print("connection established sucessfully")

else:

    print("connection failed")

main.py:

# main.py

from auth import login

def main():

    print("\nWelcome to the Student Management System")

    while True:

        print("\n1. Login\n2. Exit")

        choice = input("Enter choice: ")

        if choice == '1':

            login()

        elif choice == '2':

            print("Exiting...")

            break

        else:

            print("Invalid choice")

if \_\_name\_\_ == "\_\_main\_\_":

    main()

student.py:

# student.py

from db\_config import get\_connection

def student\_menu(roll\_no):

    while True:

        print("""\nStudent Menu:

1. View Details

2. View Marks

3. View Timetable

4. Logout""")

        choice = input("Enter choice: ")

        if choice == '1':

            view\_details(roll\_no)

        elif choice == '2':

            view\_marks(roll\_no)

        elif choice == '3':

            view\_timetable(roll\_no)

        elif choice == '4':

            change\_password(roll\_no)

        elif choice == '5':

            print("Logging out...")

            break

        else:

            print("Invalid choice.")

def view\_details(roll):

    con = get\_connection()

    cur = con.cursor()

    cur.execute("SELECT \* FROM students WHERE roll\_no=%s", (roll,))

    print("Student Details:")

    print(cur.fetchone())

    con.close()

def view\_marks(roll):

    con = get\_connection()

    cur = con.cursor()

    cur.execute("SELECT subject, marks FROM marks WHERE roll\_no=%s", (roll,))

    for row in cur.fetchall():

        print(row)

    con.close()

def view\_timetable(roll):

    con = get\_connection()

    cur = con.cursor()

    cur.execute("SELECT class, section FROM students WHERE roll\_no=%s", (roll,))

    cls, sec = cur.fetchone()

    cur.execute("SELECT \* FROM timetable WHERE class=%s AND section=%s", (cls, sec))

    for row in cur.fetchall():

        print(row)

    con.close()

def change\_password(roll):

    con = get\_connection()

    cur = con.cursor()

    new\_pass = input("Enter new password: ")

    cur.execute("UPDATE students SET password=%s WHERE roll\_no=%s", (new\_pass, roll))

    con.commit()

    con.close()

    print("Password changed.")

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