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PROGRAM CODE:
import streamlit as st
import mysql.connector
# Connect to MySQL database
conn = mysql.connector.connect(
  host="localhost",
  user="root",
  password="Sh@ji2617",
  database="STD_Marks"
c = conn.cursor()
# Function to add student
def add_student(name, department, section):
  c.execute("INSERT INTO students (name, department, section, marks) VALUES
(%s, %s, %s, %s)", (name, department, section, 0))
  conn.commit()
# Function to update marks
def update_marks(student_id, marks):
  c.execute("UPDATE students SET marks = %s WHERE id = %s", (marks, student_id))
  conn.commit()
# Function to get student by ID
def get_student_by_id(student_id):
  c.execute("SELECT * FROM students WHERE id = %s", (student_id,))
  return c.fetchone()
# Function to get all students and their marks
def get_all_students_marks():
  c.execute("SELECT * FROM students")
  return c.fetchall()
# Function to get all students in a department
def get_students_by_department(department):
  c.execute("SELECT * FROM students WHERE department = %s", (department,))
  return c.fetchall()
# Frontend code with Streamlit
def main():
  st.title("Student Result Management System")
  user_type = st.radio("Select User Type", ("Faculty", "Student"))
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faculty\_action = st.radio("Select Action", ("Add Student", "Update Marks", "Fetch

Student Details by ID", "Fetch All Students Details by Department"))

if user\_type == "Faculty":

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if faculty_action == "Add Student":
      st.subheader("Add Student")
      name = st.text_input("Enter Student Name")
      department = st.selectbox("Select Department", ["Computer Science", "Electrical
Engineering", "Mechanical Engineering"])
      section = st.selectbox("Select Section", ["A", "B", "C","D"])
      add_button = st.button("Add Student")
      if add_button:
         add_student(name, department, section)
         st.success("Student added successfully!")
    elif faculty_action == "Update Marks":
      st.subheader("Update Marks")
      student_id = st.text_input("Enter Student ID")
      marks = st.number_input("Enter Marks", min_value=0)
      update_button = st.button("Update Marks")
      if update_button:
         update_marks(student_id, marks)
         st.success("Marks updated successfully!")
    elif faculty_action == "Fetch Student Details by ID":
      st.subheader("Fetch Student Details by ID")
      student_id = st.text_input("Enter Student ID")
      fetch_button = st.button("Fetch Details")
      if fetch_button:
         student = get_student_by_id(student_id)
         if student:
           st.write(f"Name: {student[1]}, Department: {student[2]}, Section: {student[3]},
Marks: {student[4]}")
         else:
           st.warning("Student not found with the given ID.")
    elif faculty_action == "Fetch All Students Details by Department":
      st.subheader("Fetch All Students Details by Department")
      department = st.selectbox("Select Department", ["Computer Science", "Electrical
Engineering", "Mechanical Engineering"])
      fetch_button = st.button("Fetch Details")
      if fetch_button:
         students = get_students_by_department(department)
         if students:
           for student in students:
             st.write(f"ID: {student[0]}, Name: {student[1]}, Department: {student[2]},
Section: {student[3]}, Marks: {student[4]}")
         else:
           st.warning("No students found in the selected department.")
  elif user_type == "Student":
    student_action = st.radio("Select Action", ("View My Marks",))
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if student_action == "View My Marks":
    st.subheader("View My Marks")
    student_id = st.text_input("Enter Your ID")
    if student_id:
        student = get_student_by_id(student_id)
        if student:
            st.write(f"Name: {student[1]}, Department: {student[2]}, Section: {student[3]},
Marks: {student[4]}")
        else:
            st.warning("Student not found with the given ID.")

if __name__ == "__main__":
    main()
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