

Project report

Project Name Student Management System

Group Members

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Submitted To Sir Anees Ahmed

Course Introduction to Python

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Problem Statement:

• Student Management System can be used by education institutes to maintain the records of students easily. Achieving this objective is difficult using a manual system as the information is scattered, can be redundant and collecting relevant information may be very time consuming. All these problems are solved using this project.

Introduction:

• The objective of Student Management System is to allow the administrator of any organization to edit and find out the personal details of a student. It'll also facilitate keeping all the records of students, such as their Registration id, First Name, Last Name, Father Name, DOB, gender, phone number, etc. So all the information about a student will be available in a few seconds. Overall, it'll make Student Information Management an easier job for the administrator any organization. The main purpose of this Student Management System document is to illustrate the requirements of the project Student Management System and is intended to help any organization to maintain and manage its student's data.

Tools:

• SQLyog Community - 64 bit

SQLyog Community Edition is a powerful program that enables you to work with MySQL databases using a visual interface. If you are not used to the command line interface, this tool turns the MySQL database management into an easier job.

• PyCharm IDE

PyCharm is one of the most intuitive and feature-rich integrated development environments (IDEs) available for Python development.

• XAMPP server

XAMPP is a small and light MySQL distribution containing the most common database development technologies in a single package. Its contents, small size, and portability make it the ideal tool for students developing and testing applications in PHP and MySQL. XAMPP. The light version is a small package containing Apache HTTP Server, PHP, MySQL, phpMyAdmin, Openssl, and SQLite.

Technologies:

Back End: MYSQLFront End: Python

Libraries:

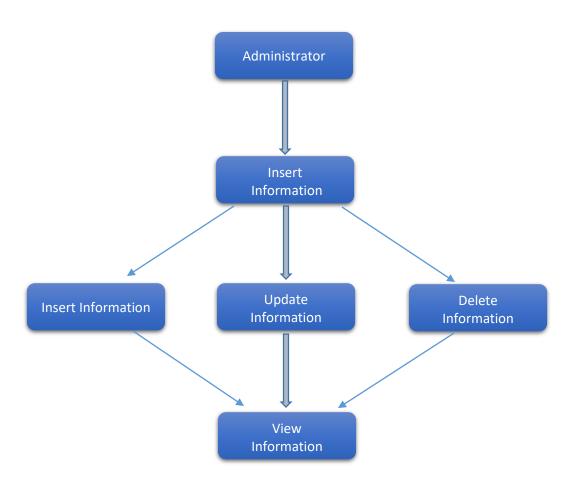
• Mysql.connector

The MySQL Connector/ ODBC (Open Database Connectivity) is the name for the family of MySQL ODBC drivers provided by Microsoft to access a MySQL Database using the standard ODBC API. MySQL Connector/ODBC provides both driver-manager based and native interfaces to connect to the MySQL Database.

• Tkinter

Tkinter is an open source, portable graphical user interface (GUI) library designed for use in Python scripts. Tkinter relies on the Tk library, the GUI library used by Tcl/Tk and Perl, which is in turn implemented in C. Therefore, Tkinter can be said to be implemented using multiple layers.

Data Flow Diagram



Code Screenshot:

```
Jimport tkinter as tk
from tkinter import ttk, messagebox
     e1.insert(0, select['RegNo'])
e2.insert(0, select['First_Name'])
     e3.insert(0, select['Last_Name'])
e4.insert(0, select['Fname'])
e5.insert(0, select['DOB'])
    e7.insert(0, select['Contact'])
e8.insert(0, select['Address'])
  Add():

RegNo= e1.get()

First_Name = e2.get()

Lest_Name = e3.get()

Fname = e4.get()

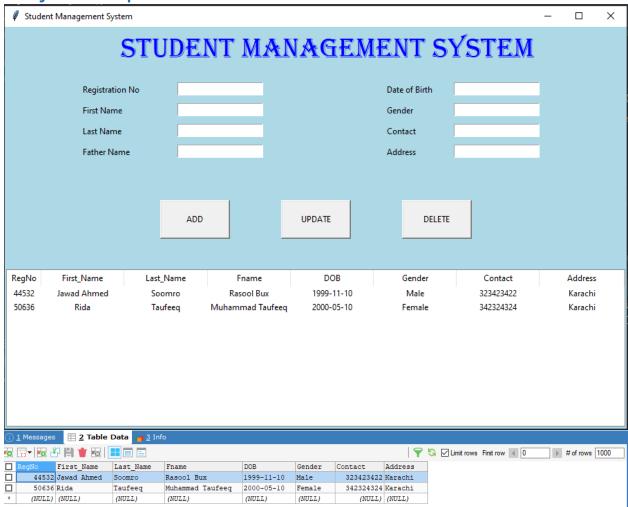
DOB = e5.get()
     e6.delete(0, END)
e7.delete(0, END)
```

```
🐉 main.py
                       f update():
RegNo = e1.get()
First_Mage = e2.get()
Last_Mage = e3.get()
Finame = e4.get()
008 = e5.get()
Gender = e6.get()
Contact = e7.get()
Address = e8.get()
waysaldb = mysol_connec
                         mysqldb = mysql.connector.connect(hos:="localhost", user="root", password="", database="management")
mysqursor = mysqldb.cursor()
                                mysqtdo.commlt()
lastid = mycursor.lastrowid
messagebox.showinfo("UPDATE TABLE", "Student Data Updated Successfully ")
                                e6.delete(0, END)
e7.delete(0, END)
```

```
listBox.insert("", "end", values=(RegNo_{L}First_Name_{L}Last_Name_{L}Fname_{L}DOB_{L}Gender_{L}Contact_{L}Address))
\label(root_{\lambda}bg='lightblue', \ text="Registration No").place(x=110, y=80)\\ Label(root_{\lambda}bg='lightblue', \ text="First Name").place(x=110, y=110)\\ Label(root_{\lambda}bg='lightblue', \ text="Last Name").place(x=110, y=140)\\
 \label(root_{\lambda}bg='lightblue', \ text="Date of Birth").place(x=550, \ y=80) \\ Label(root_{\lambda}bg='lightblue', \ text="Gender").place(x=550, \ y=110) \\ Label(root_{\lambda}bg='lightblue', \ text="Contact").place(x=550, \ y=140) \\ 
e2 = Entry(root)
 e3 = Entry(root)
 e4 = Entry(root)
```

```
👸 main.py 🗵
            e5 = Entry(root)
            eó = Entry(root)
            e7 = Entry(root)
            e8 = Entry(root)
           Button(root, text="ADD", command=Add, height=3, width=13).place(x=225, y=250)
Button(root, text="UPDATE", command=update, height=3, width=13).place(x=400, y=250)
Button(root_text="DELETE", command=delete, height=3, width=13).place(x=575, y=250)
           listBox.column('First_Name', width=120, anchor=CENTER)
listBox.column('Last_Name', width=120, anchor=CENTER)
                                                                                                                                                                                              A 8 A 72 ± 21 ^
            listBox.column('RegNo', width=50, anchor=CENTER)
           listBox.column('First_Name', width=120, anchor=CENTER)
listBox.column('Last_Name', width=120, anchor=CENTER)
listBox.column('Fname', width=120, anchor=CENTER)
listBox.column('DOB', width=120, anchor=CENTER)
           listBox.column('Gender', width=120, anchor=CENTER)
listBox.column('Contact', width=120, anchor=CENTER)
listBox.column('Address', width=123, anchor=CENTER)
                 listBox.grid(row=0, column=0, columnspan=2)
 Use HTTP/SSH Tunneling to connect to MySQL even if direct connection is disallowed: Reason #36 to upgrade
 Query 1 +
            CREATE DATABASE management
            CREATE TABLE registration
 5
           RegNo INT(20),
            First_Name VARCHAR(50),
            Last Name VARCHAR(50),
            Fname VARCHAR (50)
            DOB DATE,
 10
            Gender VARCHAR(10),
            Contact INT(20),
 11
            Address VARCHAR (50),
```

Project Output:



Project video:

https://drive.google.com/file/d/1FbMVwmjdctGr1N3kzQ3IKnvapt-YeEys/view?usp=sharing