

WAP to design Employee Registration Form using Tkinter library and perform CRUD operations.

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import tkinter as tk
from tkinter import ttk, messagebox
import mysql.connector
from tkinter import *

def GetValue(event):
    e1.delete(0, END)
    e2.delete(0, END)
    e3.delete(0, END)
    e4.delete(0, END)
    row_id = listBox.selection()[0]
    select = listBox.set(row_id)
    e1.insert(0,select['id'])
    e2.insert(0,select['empname'])
    e3.insert(0,select['mobile'])
    e4.insert(0,select['salary'])

def Add():
    studid = e1.get()
    studname = e2.get()
    coursename = e3.get()
    fee = e4.get()

    mysqldb=mysql.connector.connect(host="",user="",password="",database="payroll")
    mycursor=mysqldb.cursor()

    try:
        sql = "INSERT INTO registration (id,empname,mobile,salary)
VALUES (%s, %s, %s, %s)"
        val = (studid,studname,coursename,fee)
        mycursor.execute(sql, val)
        mysqldb.commit()
        lastid = mycursor.lastrowid
        messagebox.showinfo("information", "Employee inserted
successfully...")
        e1.delete(0, END)
        e2.delete(0, END)
        e3.delete(0, END)
        e4.delete(0, END)
        e1.focus_set()
    except Exception as e:
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        print(e)
        mysqldb.rollback()
        mysqldb.close()

def update():
    studid = e1.get()
    studname = e2.get()
    coursename = e3.get()
    fee = e4.get()

mysqldb=mysql.connector.connect(host="",user="",password="",database="payroll")
mycursor=mysqldb.cursor()

    try:
        sql = "Update  registration set empname= %s,mobile= %s,salary= %s where id= %s"
        val = (studname,coursename,fee,studid)
        mycursor.execute(sql, val)
        mysqldb.commit()
        lastid = mycursor.lastrowid
        messagebox.showinfo("information", "Record Updateddddd successfully...")

        e1.delete(0, END)
        e2.delete(0, END)
        e3.delete(0, END)
        e4.delete(0, END)
        e1.focus_set()

    except Exception as e:

        print(e)
        mysqldb.rollback()
        mysqldb.close()

def delete():
    studid = e1.get()

mysqldb=mysql.connector.connect(host="",user="",password="",database="payroll")
mycursor=mysqldb.cursor()

    try:
        sql = "delete from registration where id = %s"
        val = (studid,)
        mycursor.execute(sql, val)

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        mysqldb.commit()
        lastid = mycursor.lastrowid
        messagebox.showinfo("information", "Record Deleted successfully...")

        e1.delete(0, END)
        e2.delete(0, END)
        e3.delete(0, END)
        e4.delete(0, END)
        e1.focus_set()

    except Exception as e:

        print(e)
        mysqldb.rollback()
        mysqldb.close()

def show():
    mysqldb = mysql.connector.connect(host="", user="",
password="", database="payroll")
    mycursor = mysqldb.cursor()
    mycursor.execute("SELECT id,empname,mobile,salary FROM
registration")
    records = mycursor.fetchall()
    print(records)

    for i, (id, stname, course, fee) in enumerate(records,
start=1):
        listBox.insert("", "end", values=(id, stname, course,
fee))
        mysqldb.close()

root = Tk()
root.geometry("800x500")
global e1
global e2
global e3
global e4

tk.Label(root, text="Employee Registration", fg="red", font=(None,
30)).place(x=300, y=5)

tk.Label(root, text="Employee ID").place(x=10, y=10)
Label(root, text="Employee Name").place(x=10, y=40)
Label(root, text="Mobile").place(x=10, y=70)
Label(root, text="Salary").place(x=10, y=100)

e1 = Entry(root)
e1.place(x=140, y=10)

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e2 = Entry(root)
e2.place(x=140, y=40)

e3 = Entry(root)
e3.place(x=140, y=70)

e4 = Entry(root)
e4.place(x=140, y=100)

Button(root, text="Add", command = Add, height=3, width=
13).place(x=30, y=130)
Button(root, text="update", command = update, height=3, width=
13).place(x=140, y=130)
Button(root, text="Delete", command = delete, height=3, width=
13).place(x=250, y=130)

cols = ('id', 'empname', 'mobile', 'salary')
listBox = ttk.Treeview(root, columns=cols, show='headings' )

for col in cols:
    listBox.heading(col, text=col)
    listBox.grid(row=1, column=0, columnspan=2)
    listBox.place(x=10, y=200)

show()
listBox.bind('<Double-Button-1>', GetValue)

root.mainloop()
```

tk

Employee ID

Employee Name

Mobile

Salary

Employee Registration

Add update Delete

	id	empname	mobile	salary
2		ram	8812349711	111111
1		shyam	123456789	123456

This question is important from theory exam point of view also?

1) Types of Layout managers in Tkinter

-pack()

-grid()

-place()

Explain all 3 with example