**from** tkinter **import** \*

**from** tkinter **import** ttk

**from** tkinter **import** messagebox

**from** db **import** Database

db = Database("Employee.db")

root = Tk()

root.title("Employee Management System")

root.geometry("1920x1080+0+0")

root.config(bg="#2c3e50")

root.state("zoomed")

name = StringVar()

age = StringVar()

doj = StringVar()

gender = StringVar()

email = StringVar()

contact = StringVar()

# Entries Frame

entries\_frame = Frame(root, bg="#535c68")

entries\_frame.pack(side=TOP, fill=X)

title = Label(entries\_frame, text="Employee Management System", font=("Calibri", 18, "bold"), bg="#535c68", fg="white")

title.grid(row=0, columnspan=2, padx=10, pady=20, sticky="w")

lblName = Label(entries\_frame, text="Name", font=("Calibri", 16), bg="#535c68", fg="white")

lblName.grid(row=1, column=0, padx=10, pady=10, sticky="w")

txtName = Entry(entries\_frame, textvariable=name, font=("Calibri", 16), width=30)

txtName.grid(row=1, column=1, padx=10, pady=10, sticky="w")

lblAge = Label(entries\_frame, text="Age", font=("Calibri", 16), bg="#535c68", fg="white")

lblAge.grid(row=1, column=2, padx=10, pady=10, sticky="w")

txtAge = Entry(entries\_frame, textvariable=age, font=("Calibri", 16), width=30)

txtAge.grid(row=1, column=3, padx=10, pady=10, sticky="w")

lbldoj = Label(entries\_frame, text="D.O.J", font=("Calibri", 16), bg="#535c68", fg="white")

lbldoj.grid(row=2, column=0, padx=10, pady=10, sticky="w")

txtDoj = Entry(entries\_frame, textvariable=doj, font=("Calibri", 16), width=30)

txtDoj.grid(row=2, column=1, padx=10, pady=10, sticky="w")

lblEmail = Label(entries\_frame, text="Email", font=("Calibri", 16), bg="#535c68", fg="white")

lblEmail.grid(row=2, column=2, padx=10, pady=10, sticky="w")

txtEmail = Entry(entries\_frame, textvariable=email, font=("Calibri", 16), width=30)

txtEmail.grid(row=2, column=3, padx=10, pady=10, sticky="w")

lblGender = Label(entries\_frame, text="Gender", font=("Calibri", 16), bg="#535c68", fg="white")

lblGender.grid(row=3, column=0, padx=10, pady=10, sticky="w")

comboGender = ttk.Combobox(entries\_frame, font=("Calibri", 16), width=28, textvariable=gender, state="readonly")

comboGender['values'] = ("Male", "Female")

comboGender.grid(row=3, column=1, padx=10, sticky="w")

lblContact = Label(entries\_frame, text="Contact No", font=("Calibri", 16), bg="#535c68", fg="white")

lblContact.grid(row=3, column=2, padx=10, pady=10, sticky="w")

txtContact = Entry(entries\_frame, textvariable=contact, font=("Calibri", 16), width=30)

txtContact.grid(row=3, column=3, padx=10, sticky="w")

lblAddress = Label(entries\_frame, text="Address", font=("Calibri", 16), bg="#535c68", fg="white")

lblAddress.grid(row=4, column=0, padx=10, pady=10, sticky="w")

txtAddress = Text(entries\_frame, width=85, height=5, font=("Calibri", 16))

txtAddress.grid(row=5, column=0, columnspan=4, padx=10, sticky="w")

**def** getData(event):

selected\_row = tv.focus()

data = tv.item(selected\_row)

**global** row

row = data["values"]

#print(row)

name.set(row[1])

age.set(row[2])

doj.set(row[3])

email.set(row[4])

gender.set(row[5])

contact.set(row[6])

txtAddress.delete(1.0, END)

txtAddress.insert(END, row[7])

**def** dispalyAll():

tv.delete(\*tv.get\_children())

**for** row **in** db.fetch():

tv.insert("", END, values=row)

**def** add\_employee():

**if** txtName.get() == "" **or** txtAge.get() == "" **or** txtDoj.get() == "" **or** txtEmail.get() == "" **or** comboGender.get() == "" **or** txtContact.get() == "" **or** txtAddress.get(

1.0, END) == "":

messagebox.showerror("Erorr in Input", "Please Fill All the Details")

**return**

db.insert(txtName.get(),txtAge.get(), txtDoj.get() , txtEmail.get() ,comboGender.get(), txtContact.get(), txtAddress.get(

1.0, END))

messagebox.showinfo("Success", "Record Inserted")

clearAll()

dispalyAll()

**def** update\_employee():

**if** txtName.get() == "" **or** txtAge.get() == "" **or** txtDoj.get() == "" **or** txtEmail.get() == "" **or** comboGender.get() == "" **or** txtContact.get() == "" **or** txtAddress.get(

1.0, END) == "":

messagebox.showerror("Erorr in Input", "Please Fill All the Details")

**return**

db.update(row[0],txtName.get(), txtAge.get(), txtDoj.get(), txtEmail.get(), comboGender.get(), txtContact.get(),

txtAddress.get(

1.0, END))

messagebox.showinfo("Success", "Record Update")

clearAll()

dispalyAll()

**def** delete\_employee():

db.remove(row[0])

clearAll()

dispalyAll()

**def** clearAll():

name.set("")

age.set("")

doj.set("")

gender.set("")

email.set("")

contact.set("")

txtAddress.delete(1.0, END)

btn\_frame = Frame(entries\_frame, bg="#535c68")

btn\_frame.grid(row=6, column=0, columnspan=4, padx=10, pady=10, sticky="w")

btnAdd = Button(btn\_frame, command=add\_employee, text="Add Details", width=15, font=("Calibri", 16, "bold"), fg="white",

bg="#16a085", bd=0).grid(row=0, column=0)

btnEdit = Button(btn\_frame, command=update\_employee, text="Update Details", width=15, font=("Calibri", 16, "bold"),

fg="white", bg="#2980b9",

bd=0).grid(row=0, column=1, padx=10)

btnDelete = Button(btn\_frame, command=delete\_employee, text="Delete Details", width=15, font=("Calibri", 16, "bold"),

fg="white", bg="#c0392b",

bd=0).grid(row=0, column=2, padx=10)

btnClear = Button(btn\_frame, command=clearAll, text="Clear Details", width=15, font=("Calibri", 16, "bold"), fg="white",

bg="#f39c12",

bd=0).grid(row=0, column=3, padx=10)

# Table Frame

tree\_frame = Frame(root, bg="#ecf0f1")

tree\_frame.place(x=0, y=480, width=1980, height=520)

style = ttk.Style()

style.configure("mystyle.Treeview", font=('Calibri', 18),

rowheight=50) # Modify the font of the body

style.configure("mystyle.Treeview.Heading", font=('Calibri', 18)) # Modify the font of the headings

tv = ttk.Treeview(tree\_frame, columns=(1, 2, 3, 4, 5, 6, 7, 8), style="mystyle.Treeview")

tv.heading("1", text="ID")

tv.column("1", width=5)

tv.heading("2", text="Name")

tv.heading("3", text="Age")

tv.column("3", width=5)

tv.heading("4", text="D.O.B")

tv.column("4", width=10)

tv.heading("5", text="Email")

tv.heading("6", text="Gender")

tv.column("6", width=10)

tv.heading("7", text="Contact")

tv.heading("8", text="Address")

tv['show'] = 'headings'

tv.bind("<ButtonRelease-1>", getData)

tv.pack(fill=X)

dispalyAll()

root.mainloop()

**db.py**

**import** sqlite3

**class** Database:

**def** \_\_init\_\_(self, db):

self.con = sqlite3.connect(db)

self.cur = self.con.cursor()

sql = """

        CREATE TABLE IF NOT EXISTS employees(

            id Integer Primary Key,

            name text,

            age text,

            doj text,

            email text,

            gender text,

            contact text,

            address text

        )

        """

self.cur.execute(sql)

self.con.commit()

# Insert Function

**def** insert(self, name, age, doj, email, gender, contact, address):

self.cur.execute("insert into employees values (NULL,?,?,?,?,?,?,?)",

(name, age, doj, email, gender, contact, address))

self.con.commit()

# Fetch All Data from DB

**def** fetch(self):

self.cur.execute("SELECT \* from employees")

rows = self.cur.fetchall()

# print(rows)

**return** rows

# Delete a Record in DB

**def** remove(self, id):

self.cur.execute("delete from employees where id=?", (id,))

self.con.commit()

# Update a Record in DB

**def** update(self, id, name, age, doj, email, gender, contact, address):

self.cur.execute(

"update employees set name=?, age=?, doj=?, email=?, gender=?, contact=?, address=? where id=?",

(name, age, doj, email, gender, contact, address, id))

self.con.commit()