COURSE REGISTRATION DESK

A Mini-Project Report Submitted in partial fulfillment of the requirements

of the degree of

BACHELOR OF ENGINEERING

IN

COMPUTER ENGINEERING

BY

KANHAIYA MISHRA (CS-19)

NAMAN BHALANI (CS-03)

Under the guidance of Mrs. UMA GORADIYA

(Assistant Professor)

DEPARTMENT OF COMPUTER ENGINEERING

Accredited by NBA for 3 years w.e.f. 1ˢᵗ July 2022

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

SHREE L.R. TIWARI EDUCATIONAL CAMPUS, MIRA ROAD (E), THANE - 401107,MAHARASHTRA.

University of Mumbai

AY 2022-23

Problem Statement :

Design an Course Registration Desk using Tkinter and connect it to a database. The system should allow students to register for upcoming courses by providing their personal details, selecting the courses they wish to appear for. The system should also allow administrators to view and manage the registered students' data and exam details.

Code :

```python
import tkinter as tk
from tkinter import Label, PhotoImage, messagebox
from PIL import ImageTk,Image
import re import
pyodbc mydb =
pyodbc.connect(
'Driver={SQL
Server};'
'Server=MK\SQLEXPRESS;'
'Database=kanha;'
'Trusted_connection=yes;'
)

root = tk.Tk()
root.title("Course Registration Form")
root.geometry("450x710")
root.configure(bg='black')
 img1=Image.open('H:\\KANHAIYA\\Python_Project\\blacks.jpg')
img1=img1.resize((1550,850),Image.LANCZOS)
bgimage= ImageTk.PhotoImage(img1)
bglabel = tk.Label(root,image=bgimage,width=1550, height= 850)
bglabel.place(x=0,y=0)
frame = tk.Frame(root)
img = Image.open('C:\\Users\\MK\\OneDrive\\Pictures\\Logo.png') img
= img.resize((380,90), Image.LANCZOS)
bgImage=ImageTk.PhotoImage(img)
bgLabel=tk.Label(frame,image=bgImage,bd=5,width=400, height= 90)
bgLabel.grid(row=0,column=0,columnspan=2, padx=5,pady=5)

fname_label = tk.Label(frame, text="First
Name:") fname_entry = tk.Entry(frame,width =
'30') lname_label = tk.Label(frame, text="Last
Name:") lname_entry = tk.Entry(frame,width =
'30') email_label = tk.Label(frame,
text="Email:") email_entry =
tk.Entry(frame,width = '30') phone_label =
tk.Label(frame, text="Phone No:") phone_entry =
tk.Entry(frame,width = '30') city_label =
tk.Label(frame, text="City:") city_entry =
```

```python
tk.Entry(frame,width = '30') state_label =
tk.Label(frame, text="State:") state_entry =
tk.Entry(frame,width = '30') country_label =
tk.Label(frame, text="Country:") country_entry =
tk.Entry(frame,width = '30') pincode_label =
tk.Label(frame, text="Pin Code:") pincode_entry
= tk.Entry(frame,width = '30') gender_type_label
= tk.Label(frame, text="Gender:")
gender_type_var = tk.StringVar(value="Male")
gender_type_male = tk.Radiobutton(frame,
text="Male", variable=gender_type_var,
value="Male") gender_type_female =
tk.Radiobutton(frame, text="Female",
variable=gender_type_var, value="Female")
gender_type_others = tk.Radiobutton(frame,
text="Others", variable=gender_type_var,
value="Others") course_label = tk.Label(frame,
text="Highest Qualification:") course_entry =
tk.Entry(frame,width = '30') college_name_label
= tk.Label(frame, text="College Name:")
college_name_entry = tk.Entry(frame,width =
'30') course_id_label = tk.Label(frame,
text="Course ID:") course_id_entry =
tk.Entry(frame,width = '30') course_name_label =
tk.Label(frame, text="Course Name:")
course_name_entry = tk.Entry(frame,width = '30')

#----GRID PART----
fname_label.grid(row=1, column=0, padx=0, pady=5)
fname_entry.grid(row=1, column=1, padx=0, pady=5)
lname_label.grid(row=2, column=0, padx=5, pady=5)
lname_entry.grid(row=2, column=1, padx=5, pady=5)
email_label.grid(row=3, column=0, padx=5, pady=5)
email_entry.grid(row=3, column=1, padx=5, pady=5)
phone_label.grid(row=4, column=0, padx=5, pady=5)
phone_entry.grid(row=4, column=1, padx=5, pady=5)
city_label.grid(row=5, column=0, padx=5, pady=5)
city_entry.grid(row=5, column=1, padx=5, pady=5)
state_label.grid(row=6, column=0, padx=5, pady=5)
state_entry.grid(row=6, column=1, padx=5, pady=5)
country_label.grid(row=7, column=0, padx=5, pady=5)
country_entry.grid(row=7, column=1, padx=5, pady=5)
pincode_label.grid(row=8, column=0, padx=5, pady=5)
pincode_entry.grid(row=8, column=1, padx=5, pady=5)
gender_type_label.grid(row=9, column=0, padx=5, pady=5)
gender_type_male.grid(row=9, column=1, padx=5, pady=5)
gender_type_female.grid(row=10, column=1, padx=5, pady=5)
gender_type_others.grid(row=11, column=1, padx=5, pady=5)
course_label.grid(row=12, column=0, padx=5, pady=5)
course_entry.grid(row=12, column=1, padx=5, pady=5)
college_name_label.grid(row=13, column=0, padx=5, pady=5)
college_name_entry.grid(row=13, column=1, padx=5, pady=5)
```

```
course_id_label.grid(row=14, column=0, padx=5, pady=5)
course_id_entry.grid(row=14, column=1, padx=5, pady=5)
course_name_label.grid(row=15, column=0, padx=5, pady=5)
course_name_entry.grid(row=15, column=1, padx=5, pady=5)
terms_var = tk.BooleanVar()
terms_checkbox = tk.Checkbutton(frame, text="I agree to the Terms and Conditions",
variable=terms_var)
terms_checkbox.grid(row=18, column=0, columnspan=2, padx=5, pady=5)
```

#---FUNCTION--

```
- def
validate_form():
  if not fname_entry.get() or not lname_entry.get() or not email_entry.get() or not phone_entry.get() or
not city_entry.get() or not state_entry.get() or not country_entry.get() or not pincode_entry.get() or not
gender_type_var.get() or not course_entry.get() or not college_name_entry.get() or not
course_name_entry.get() or not course_id_entry.get():
    messagebox.showerror("Error", "Please fill all the fields.")
elif not re.match(r"[^@]+@[^@]+.[^@]+",
email_entry.get()):    messagebox.showerror("Error",
"Invalid email address.")   elif not re.match(r"[0-9]{10}",
phone_entry.get()):
    messagebox.showerror("Error", "Invalid phone number.")
elif not terms_var.get():
    messagebox.showerror("Error", "Please agree to the Terms and Conditions.")
else:
    cursor = mydb.cursor()
    cursor.execute("INSERT INTO coursedetail
values('"+fname_entry.get()+"','"+lname_entry.get()+"','"+email_entry.get()+"','"+phone_entry.get()+"','
"+city_entry.get()+"',
'"+state_entry.get()+"','"+country_entry.get()+"','"+pincode_entry.get()+"','"+gender_type_var.get()+"',
'"+course_entry.get()+"','"+college_name_entry.get()+"','"+course_name_entry.get()+"','"+course_id_en
try.get()+"')")
    mydb.commit()    messagebox.showinfo("Success", "Form
submitted successfully.")    print("Name:", fname_entry.get(),
lname_entry.get())
    print("Email:", email_entry.get())
print("Phone:", phone_entry.get())
    print("Address:", city_entry.get(),",", state_entry.get(),",",country_entry.get(),"-",pincode_entry.get())
print("Gender:", gender_type_var.get())    print("Qualification:", course_entry.get())    print("College
Name:", college_name_entry.get())    print("Course Name:", course_name_entry.get())
    print("Course ID:", course_id_entry.get())
fname_entry.delete(0, tk.END)
lname_entry.delete(0, tk.END)
email_entry.delete(0, tk.END)
phone_entry.delete(0, tk.END)
city_entry.delete(0, tk.END)
state_entry.delete(0, tk.END)
country_entry.delete(0, tk.END)
pincode_entry.delete(0, tk.END)
course_entry.delete(0, tk.END)
college_name_entry.delete(0, tk.END)
```
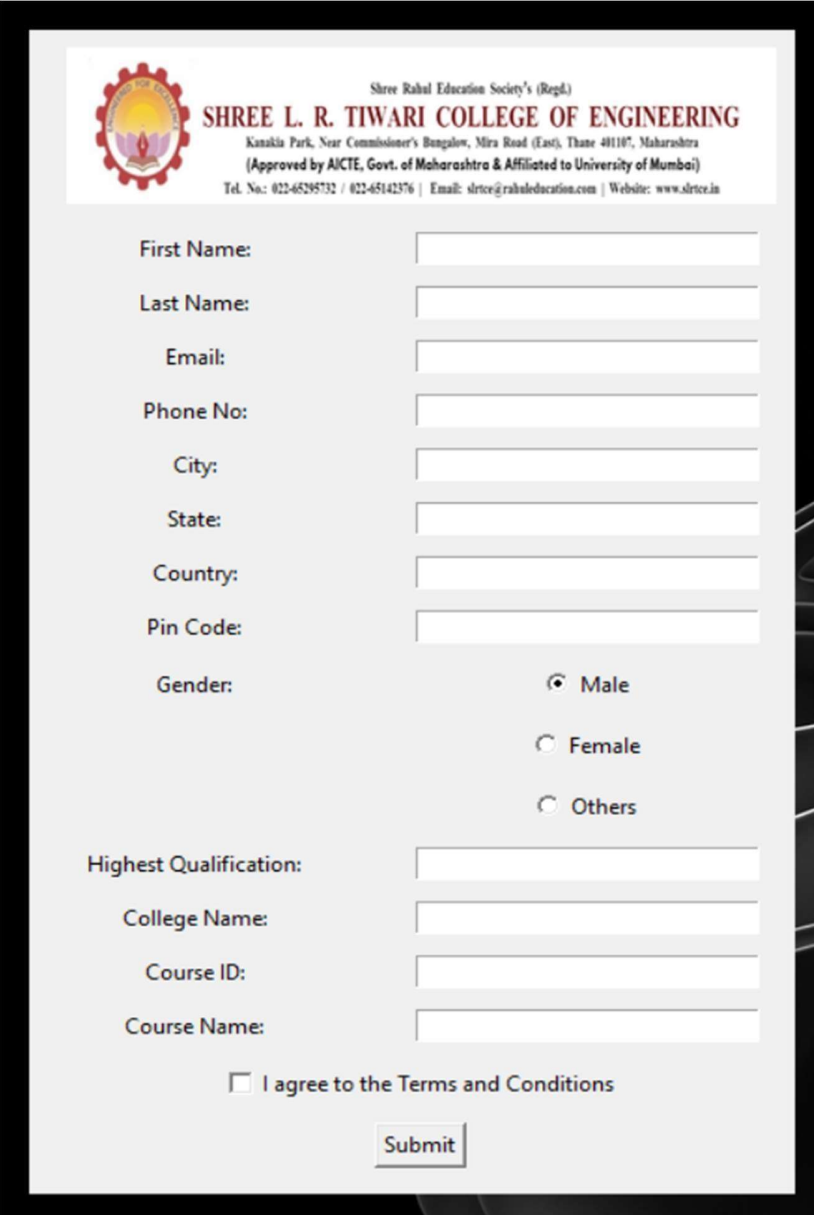
```
course_name_entry.delete(0, tk.END)
course_id_entry.delete(0, tk.END)
submit_button = tk.Button(frame, text="Submit",command=validate_form)
submit_button.grid(row=19,      column=0,      columnspan=2,      padx=5,
pady=(5,15)) frame.pack(padx=20, pady=20)
root.mainloop()
```

Output:

Shree Rahul Education Society's (Regd.)
SHREE L. R. TIWARI COLLEGE OF ENGINEERING
Kanakia Park, Near Commissioner's Bungalow, Mira Road (East), Thane 401107, Maharashtra
(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai)
Tel. No.: 022-69297732 / 022-69142576 | Email: slrtce@slrtceeducation.com | Website: www.slrtce.in

First Name:
Last Name:
Email:
Phone No:
City:
State:
Country:
Pin Code:
Gender: ● Male
                   ○ Female
                   ○ Others
Highest Qualification:
College Name:
Course ID:
Course Name:
☐ I agree to the Terms and Conditions
Submit

First Name:
Last Name:
Email:
Phone No:
City:
State:
Country:
Pin Code:
Gender:

Error ✕
❌ Please fill all the fields.
OK

Highest Qualifi
College Name:
Course ID:
Course Name:
☐ I agree to the Terms and Conditions
Submit

First Name: Naman
Last Name: Bhalani
Email: naman.bhalani@slrtce.in
Phone No: 4561237895
City: Mirar Road
State: Maharashtra
Country: India
Pin Co   456123
Gend

Success ✕
ⓘ Form submitted successfully.
OK

Highest Qua
College Name: SLRTCE
Course ID: HSJD46620A
Course Name: Python
☑ I agree to the Terms and Conditions
Submit

```
    fname varchar(50),
    lname varchar(50),
    email varchar(50),
    phone varchar(50),
    city varchar(50),
    states varchar(50),
    country varchar(50),
    pincode varchar(50),
    gender varchar(50),
    qualification varchar(50),
    collegename varchar(50),
    coursename varchar(50),
    courseid varchar(50),
);

select * from coursedetail
```

	fname	lname	email	phone	city	states	country	pincode	gender	qualification	collegename	coursename
1	Kanhaiya	Mishra	kanhaiya.a.mishra@slrtce.in	1234567895	Virar	Maharashtra	India	456123	Male	Under Graduate	SLRTCE	Data Science
2	Naman	Bhalani	naman.bhalani@slrtce.in	4561237895	Mirar Road	Maharashtra	India	456123	Male	Under Graduate	SLRTCE	Python