"RTO MANAGEMENT SYSTEM"

A COMPUTER SCIENCE PROJECT REPORT

SUBMITTED BY

DIVYA SHUKLA

IN PARTIAL FULFILMENT OF THE

AISSCE – 2022-23

IN

COMPUTER SCIENCE (083)

AT

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CBSE-English Medium

CERTIFICATE

This is certify that Mr.\Miss. DIVYA SHUKLA **is a student of J. B. Diamonds & KARP Impex Vidya Sankul, who has successfully completed the project work on title "RTO MANAGEMENT SYSTEM" in COMPUTER SCIENCE (083) assigned to him\her as a part of AISSCE curriculum during the academic year 2022-23.**

We found him\her very sincere, hardworking and disciplined girl\boy. We wish all the success for his\her future endeavors.

…… **……**

(Signature of the Internal Examiner) **(Signature of the External Examiner)**

……

(Signature of Principal)

PROJECT FILE

ACKNOWLEDGEMENT

I would like to express my special thanks of gratitude to my Computer Science teacher Mr. Ajay Tiwari Sir as well as our principal Mr. Gaurang Patel Sir for their guidance and support in completing this wonderful project entitled " RTO MANAGEMENT SYSTEM " using Python-MySQL connectivity.

I came to know about many things. I am really thankful to them.

A debt of gratitude is also owed to my parents and friends who helped me with their valuable suggestions.

Although this report has been prepared with utmost care and deep routed interest, even then I accept respondents and imperfections.

CONTENTS

AIM

RTO MANAGEMENT Using MYSQL Connectivity

Introduction

- **What is Python?**
  - The Python Programming Language is a recent, general-purpose and higher-level programming language. It has features for database programming also.
  - This project aims on explaining how one can create a MySQL database from within a Python script and create a user interface software.

- **Why Python?**
  - Due to its open source nature, Python has been ported to many platforms.
  - It is free and open source. It is available for free and runs on almost every current platform.
  - Python provides interfaces to all major commercial databases.
  - It can easily integrated with C, C++, COM, Java, MySQL, etc.

- **What is MySQL?**
  - MySQL is a freely available open source Relational Database Management System (RDBMS) that uses Structured Query Language (SQL).
  - It provides you with a rich set of features that support a secure environment for storing, maintaining, and accessing data.

- **Why MySQL?**
  - It is an open source software and is easily portable.
  - It is easy to use, manage and works quickly and efficiently.
  - It is used to create databases, manage security of a database.
  - It maintains integrity and reduces data redundancy.

Python is a Front End Software

MySQL is a Back End Software

Interface Python with MySQL

There are mainly seven steps that must be followed in order to create a database connectivity application.

Step 1 – Start Python

Step 2 – Import the packages required for database programming.

Step 3 – Open a connection to database.

Step 4 – Create a cursor instance.

Step 5 – Execute a query.

Step 6 – Extract data from result set.

Step 7 – Clean up the environment.

PYTHON CODING

LOGIN CODE

```
#LOGIN FORM
from tkinter import*
import tkinter.messagebox
import os
from tkinter import ttk
import random
import time
import datetime

def main():
    root = Tk()
    app = Window_1(root)

class Window_1:
    def __init__(self, master):
        self.master = master
        self.master.title("Login Window")
        self.master.geometry('700x550')
        self.master.config(bg = 'black')
        self.Frame = Frame(self.master, bg = 'lightblue')
        self.Frame.pack()

        self.Username = StringVar()
        self.Password = StringVar()

        self.Lbl_Title = Label(self.Frame, text = 'LOGIN FORM', font = ('times new roman',52,'bold'), bg = 'cornsilk', fg = 'navy')
        self.Lbl_Title.grid(row = 0, column = 0, columnspan =3, pady = 40)
```

```
File  Edit  Format  Run  Options  Window  Help

        self.Lbl_Title = Label(self.Frame, text = 'LOGIN FORM', font = ('times new roman',52,'bold'), bg = 'cornsilk', fg = 'navy')
        self.Lbl_Title.grid(row = 0, column = 0, columnspan =3, pady = 40)

        self.Login_Frame_1 = LabelFrame(self.Frame, width = 300, height = 100, relief = 'ridge', bg = 'lightslategrey', bd = 15, text='LOGIN
                             font = ('arial',20,'bold'))
        self.Login_Frame_1.grid(row = 1, column =0)
        self.Login_Frame_2 = LabelFrame(self.Frame, width = 3000, height = 100, relief = 'groove',bg = 'mistyrose4', bd = 15, text='Event
                             font = ('arial',20,'bold'))
        self.Login_Frame_2.grid(row = 2, column = 0)


        #=====================================================LABEL and ENTRIES=====================================
        self.Label_Username = Label(self.Login_Frame_1, text = 'Username', font = ('arial',20,'bold'), bg = 'lightslategrey', fg = 'light blue',
        self.Label_Username.grid(row = 0, column = 0)
        self.text_Username = Entry(self.Login_Frame_1, font = ('arial',20,'bold'), textvariable = self.Username)
        self.text_Username.grid(row = 0, column = 1, padx = 50)
        self.text_Username.focus()

        self.Label_Password = Label(self.Login_Frame_1, text = 'Password', font = ('arial',20,'bold'), bg = 'lightslategrey', fg = 'light blue',
        self.Label_Password.grid(row = 1, column = 0)
        self.text_Password = Entry(self.Login_Frame_1, font = ('arial',20,'bold'), show = '*', textvariable = self.Password)
        self.text_Password.grid(row = 1, column = 1)


        #=============================================================BUTTONS=====================================
        self.btnLogin = Button(self.Login_Frame_2, text = 'Login', fg = 'navy blue', width = 10, font = ('airia',15,'bold'), command = self.Lo
        self.btnLogin.grid(row = 3, column = 0, padx = 8, pady = 20)
```

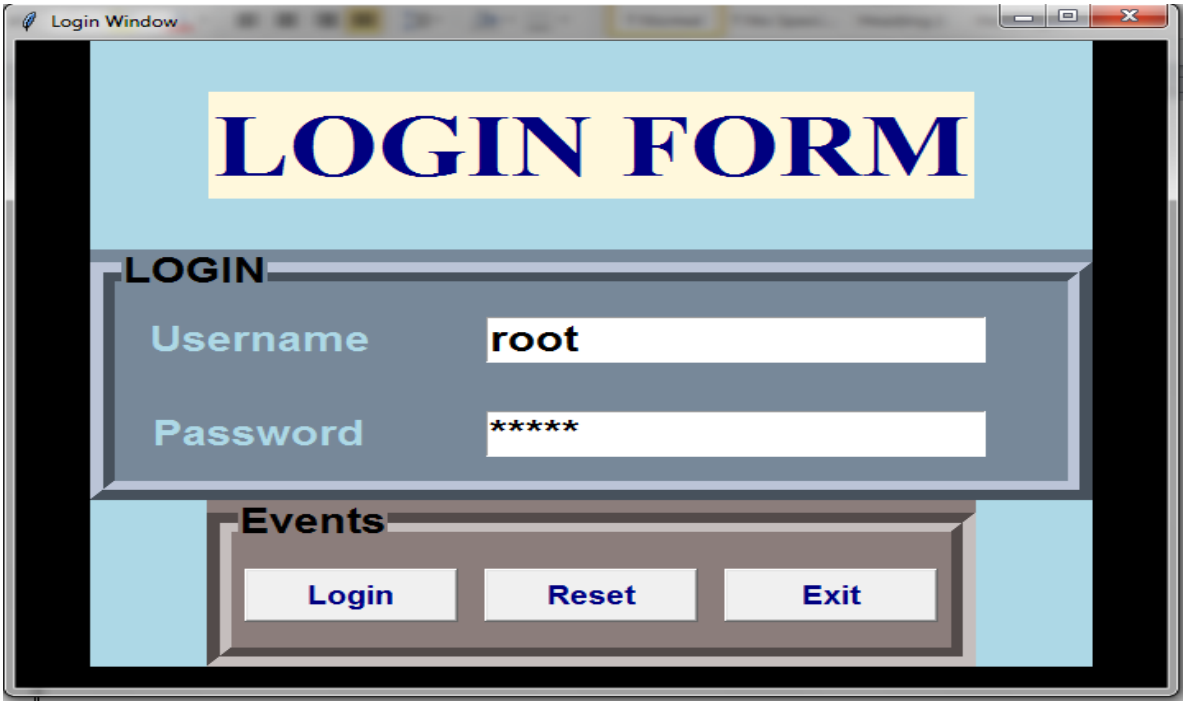
Ln: 25 Col: 0

```
File  Edit  Format  Run  Options  Window  Help

    #=============================================================BUTTONS=====================================
    self.btnLogin = Button(self.Login_Frame_2, text = 'Login', fg = 'navy blue', width = 10, font = ('airia',15,'bold'), command = self.Lo
    self.btnLogin.grid(row = 3, column = 0, padx = 8, pady = 20)

    self.btnReset = Button(self.Login_Frame_2, text = 'Reset', fg = 'navy blue', width = 10, font = ('airia',15,'bold'), command = self.Re
    self.btnReset.grid(row = 3, column = 1, padx = 8, pady = 20)

    self.btnExit = Button(self.Login_Frame_2, text = 'Exit', fg = 'navy blue', width = 10, font = ('airia',15,'bold'), command = self.Exit)
    self.btnExit.grid(row = 3, column = 2, padx = 8, pady = 20)


    #=====================================================Code for Login Button=================================
def Login(self):
    u = (self.Username.get())
    p = (self.Password.get())

    if (u == str('root') and p == str(12345)):
        tkinter.messagebox.askyesno("Login Successfully","Thanks : For using Login Form.")
        self.master.destroy()
        self.__RTO__()
    else:
        tkinter.messagebox.askyesno("Login","Error : Wrong Password")
        self.Username.set("")
        self.Password.set("")
        self.text_Username.focus()
```

```
File  Edit  Format  Run  Options  Window  Help


    #=====================================================Code for Reset Button=================================
def Reset(self):
     self.Username.set("")
     self.Password.set("")
     self.text_Username.focus()


    #=====================================================Code for Exit Button==================================

def Exit(self):
    self.Exit = tkinter.messagebox.askokcancel("Login System", "Confirm if you want to Exit")
    if self.Exit > 0:
        self.master.destroy()

def __RTO__(self):
    filename = 'RTO.py'
    os.system(filename)
    os.system('notepad'+filename)


if __name__ == '__main__':
    main()
```

OUTPUT


Login Window
LOGIN FORM
LOGIN
Username
Password
Events
Login
Reset
Exit

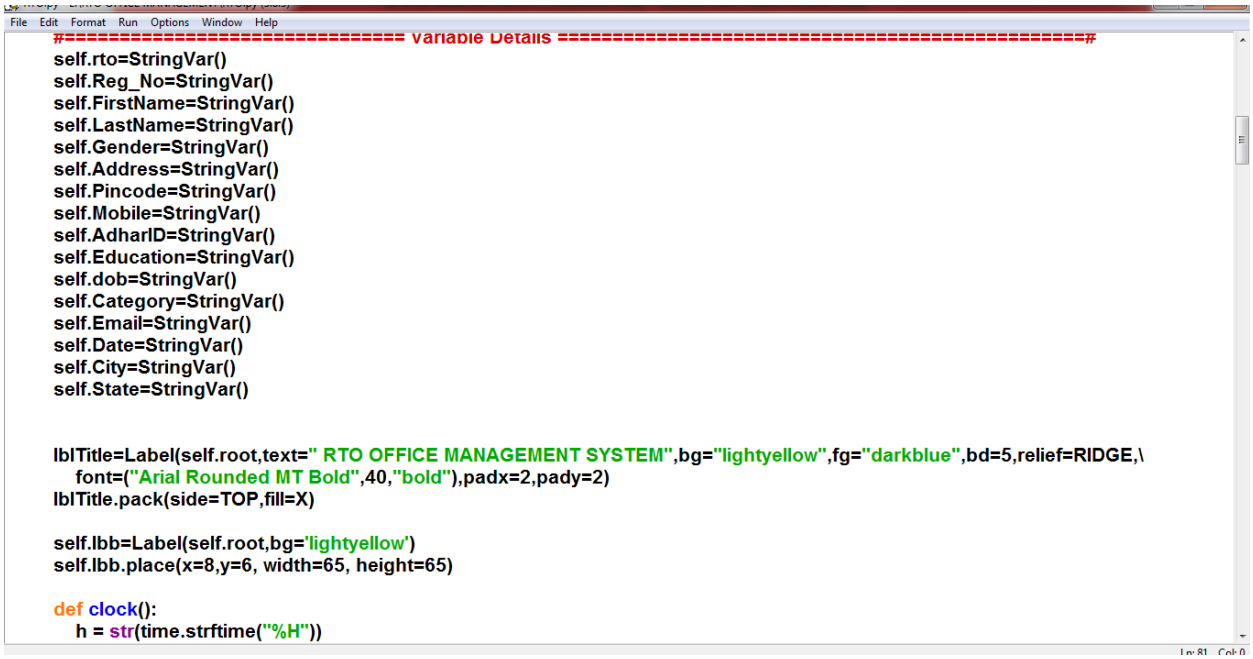

Login Window
LOGIN FORM
LOGIN
Username
root
Password
*****
Events
Login
Reset
Exit


Login Window
LOGIN FORM
LOGIN
Username
root
Password
*****
Events
Login
Reset
Exit
Login Successfully
Thanks : For using Login Form.
Yes
No

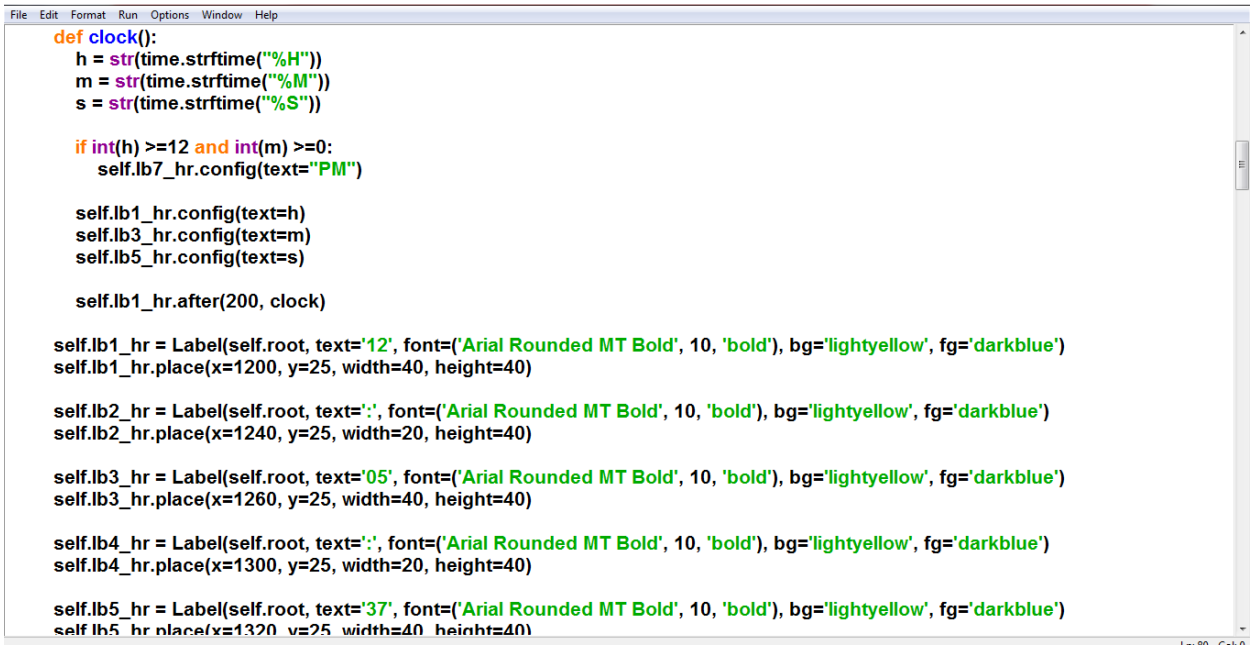
SOURCE CODE

```
File  Edit  Format  Run  Options  Window  Help
import tkinter
from tkinter import *
from tkinter import ttk
from tkinter import messagebox
import mysql.connector as sql
import datetime as dt
import time
from subprocess import call


def SplashScreen():
    splashscreen = Tk()
    splashscreen.overrideredirect(1)
    splashscreen.geometry(
        f"800x400+{(splashscreen.winfo_screenwidth() - 800) // 2}+{(splashscreen.winfo_screenheight() - 400) // 2}")
    splashscreen.configure(bg='blue',bd=10)

    Label(splashscreen, text='RTO MANAGEMENT SYSTEM', font='impact 50', fg='navy', bg='grey',bd=10).pack()

    Label(splashscreen, text="Version 1.0", font='timesnewroman 15 ', bg='grey', fg='navy',bd=10).place(x=600, y=70)
    pgbar = ttk.Progressbar(splashscreen, orient='horizontal', length=650, mode='indeterminate')
    Label(splashscreen, text="Directed By: Divya Shukla", font='consolas 10', bg='grey', fg='navy',bd=10).place(x=570, y=340)
    pgbar.place(x=50, y=150)
    pgbar['maximum'] = 100

    txt=Label(splashscreen,text='0%',bg='steelblue3',fg='black')
    txt.place(x=750, y=151)
```

```
    for i in range(101):
        time.sleep(0.020)
        pgbar['value'] = i
        pgbar.update()
        txt['text']=pgbar['value'],'%'

    splashscreen.destroy()

    splashscreen.mainloop()

mydb=sql.connect(host="localhost",user="root",password="12345")
mycur=mydb.cursor()
mycur.execute("create database if not exists myRTO")
mycur.execute("use myRTO")
mycur.execute('Create table if not exists details(rto varchar(30), Reg_No varchar(20),  \
FirstName varchar(30), LastName varchar(30),Gender varchar(30), Address varchar(50), \
Pincode varchar(30), Mobile varchar(30), AdharID varchar(30), \
Education varchar(30), dob varchar(30), Category varchar(30), Email varchar(30), Date varchar(30),\
City varchar(30), State varchar(30))')

class RTOManagementSystem:
    def __init__(self,root):
        self.root=root
        self.root.title("RTO Management System")
        self.root.geometry("1550x1080+0+0")
        #============================== Variable Details ================================================#
        self.rto=StringVar()
Ln: 55  Col: 0
```



```
File  Edit  Format  Run  Options  Window  Help
    #================================ Variable Details ================================================#
    self.rto=StringVar()
    self.Reg_No=StringVar()
    self.FirstName=StringVar()
    self.LastName=StringVar()
    self.Gender=StringVar()
    self.Address=StringVar()
    self.Pincode=StringVar()
    self.Mobile=StringVar()
    self.AdharID=StringVar()
    self.Education=StringVar()
    self.dob=StringVar()
    self.Category=StringVar()
    self.Email=StringVar()
    self.Date=StringVar()
    self.City=StringVar()
    self.State=StringVar()


    lblTitle=Label(self.root,text=" RTO OFFICE MANAGEMENT SYSTEM",bg="lightyellow",fg="darkblue",bd=5,relief=RIDGE,\
       font=("Arial Rounded MT Bold",40,"bold"),padx=2,pady=2)
    lblTitle.pack(side=TOP,fill=X)

    self.lbb=Label(self.root,bg='lightyellow')
    self.lbb.place(x=8,y=6, width=65, height=65)

    def clock():
       h = str(time.strftime("%H"))
```



```
File  Edit  Format  Run  Options  Window  Help
    def clock():
       h = str(time.strftime("%H"))
       m = str(time.strftime("%M"))
       s = str(time.strftime("%S"))

       if int(h) >=12 and int(m) >=0:
          self.lb7_hr.config(text="PM")

       self.lb1_hr.config(text=h)
       self.lb3_hr.config(text=m)
       self.lb5_hr.config(text=s)

       self.lb1_hr.after(200, clock)

    self.lb1_hr = Label(self.root, text='12', font=('Arial Rounded MT Bold', 10, 'bold'), bg='lightyellow', fg='darkblue')
    self.lb1_hr.place(x=1200, y=25, width=40, height=40)

    self.lb2_hr = Label(self.root, text=':', font=('Arial Rounded MT Bold', 10, 'bold'), bg='lightyellow', fg='darkblue')
    self.lb2_hr.place(x=1240, y=25, width=20, height=40)

    self.lb3_hr = Label(self.root, text='05', font=('Arial Rounded MT Bold', 10, 'bold'), bg='lightyellow', fg='darkblue')
    self.lb3_hr.place(x=1260, y=25, width=40, height=40)

    self.lb4_hr = Label(self.root, text=':', font=('Arial Rounded MT Bold', 10, 'bold'), bg='lightyellow', fg='darkblue')
    self.lb4_hr.place(x=1300, y=25, width=20, height=40)

    self.lb5_hr = Label(self.root, text='37', font=('Arial Rounded MT Bold', 10, 'bold'), bg='lightyellow', fg='darkblue')
    self.lb5_hr.place(x=1320, y=25, width=40, height=40)
```

```
self.lb7_hr = Label(self.root, text='AM', font=('Arial Rounded MT Bold', 10, 'bold'), bg='lightyellow', fg='darkblue')
self.lb7_hr.place(x=1360, y=25, width=40, height=40)

clock()


frame=Frame(self.root,bd=5,relief=RIDGE,padx=30,bg="lightyellow")
frame.place(x=0,y=90,width=1550,height=800)


#============================== DataFrame Left ==============================================#
DataFrameLeft=LabelFrame(frame,text="RTO MANAGEMENT SYSTEM",bg="lightyellow",fg="darkblue",bd=5,relief=RIDGE,font=('
DataFrameLeft.place(x=0,y=300,width=1300,height=300)

lblrto=Label(DataFrameLeft,bg="lightyellow",text="RTO CODE",font=("Arial Rounded MT Bold",15,"bold"),padx=14,pady=3)
lblrto.grid(row=0,column=0,sticky=W)
txtrto=Entry(DataFrameLeft, textvariable=self.rto,font=("Arial Rounded MT Bold",13),width=29)
txtrto.grid(row=0,column=1,sticky=W)


lblReg_No=Label(DataFrameLeft,bg="lightyellow",text="REGISTRATION No.",font=("Arial Rounded MT Bold",15,"bold"),padx=14,
lblReg_No.grid(row=1,column=0,sticky=W)
txtReg_No=Entry(DataFrameLeft, textvariable=self.Reg_No,font=("times new roman",13),width=29)
txtReg_No.grid(row=1,column=1,sticky=W)
```

File Edit Format Run Options Window Help

```
lblFirstName=Label(DataFrameLeft,bg="lightyellow",text="FIRST NAME",font=("Arial Rounded MT Bold",15,"bold"),padx=14,pady
lblFirstName.grid(row=2,column=0,sticky=W)
txtFirstName=Entry(DataFrameLeft, textvariable=self.FirstName,font=("times new roman",13),width=29)
txtFirstName.grid(row=2,column=1,sticky=W)

lblLastName=Label(DataFrameLeft,bg="lightyellow",text="LAST NAME",font=("Arial Rounded MT Bold",15,"bold"),padx=14,pady
lblLastName.grid(row=3,column=0,sticky=W)
txtLastName=Entry(DataFrameLeft, textvariable=self.LastName,font=("times new roman",13),width=29)
txtLastName.grid(row=3,column=1,sticky=W)

lblGender=Label(DataFrameLeft,bg="lightyellow",text="GENDER",font=("Arial Rounded MT Bold",15,"bold"),padx=14,pady=3)
lblGender.grid(row=4,column=0,sticky=W)
cmbGender=ttk.Combobox(DataFrameLeft,textvariable=self.Gender,font=("times new roman",13,"bold"),width=20,state="reador
cmbGender["value"]=("MALE","FEMALE","OTHER")
cmbGender.current(0)
cmbGender.grid(row=4,column=1,sticky=W)

lblAddress=Label(DataFrameLeft,bg="lightyellow",text="ADDRESS",font=("Arial Rounded MT Bold",15,"bold"),padx=14,pady=3)
lblAddress.grid(row=5,column=0,sticky=W)
txtAddress=Entry(DataFrameLeft, textvariable=self.Address,font=("times new roman",13),width=29)
txtAddress.grid(row=5,column=1,sticky=W)

lblPincode=Label(DataFrameLeft,bg="lightyellow",text="PIN CODE",font=("Arial Rounded MT Bold",15,"bold"),padx=14,pady=3)
lblPincode.grid(row=6,column=0,sticky=W)
txtPincode=Entry(DataFrameLeft, textvariable=self.Pincode,font=("times new roman",13),width=29)
txtPincode.grid(row=6,column=1,sticky=W)\
```

```
lblMobile=Label(DataFrameLeft,bg="lightyellow",text="MOBILE NO",font=("Arial Rounded MT Bold",15,"bold"),padx=14,pady=3)
lblMobile.grid(row=7,column=0,sticky=W)
txtMobile=Entry(DataFrameLeft, textvariable=self.Mobile,font=("times new roman",13),width=29)
txtMobile.grid(row=7,column=1,sticky=W)

lblAdharID=Label(DataFrameLeft,bg="lightyellow",text="AADHAR NO.",font=("Arial Rounded MT Bold",15,"bold"),padx=50,pady=
lblAdharID.grid(row=0,column=2,sticky=W)
txtAdharID=Entry(DataFrameLeft, textvariable=self.AdharID,font=("times new roman",13),width=29)
txtAdharID.grid(row=0,column=3,sticky=W)

lblEducation=Label(DataFrameLeft,bg="lightyellow",text="EDUCATION QUALIFICATION",font=("Arial Rounded MT Bold",15,"bold
lblEducation.grid(row=1,column=2,sticky=W)
txtEducation=Entry(DataFrameLeft, textvariable=self.Education,font=("times new roman",13),width=29)
txtEducation.grid(row=1,column=3,sticky=W)

lbldob=Label(DataFrameLeft,bg="lightyellow",text="DATE OF BIRTH",font=("Arial Rounded MT Bold",15,"bold"),padx=50,pady=3
lbldob.grid(row=2,column=2,sticky=W)
txtdob=Entry(DataFrameLeft, textvariable=self.dob,font=("times new roman",13),width=29)
txtdob.grid(row=2,column=3,sticky=W)

lblCategory=Label(DataFrameLeft,bg="lightyellow",text="CATEGORY",font=("Arial Rounded MT Bold",15,"bold"),padx=50,pady=
lblCategory.grid(row=3,column=2,sticky=W)
txtCategory=Entry(DataFrameLeft, textvariable=self.Category,font=("times new roman",13),width=29)
txtCategory.grid(row=3,column=3,sticky=W)

lblEmail=Label(DataFrameLeft,bg="lightyellow",text="EMAIL ID",font=("Arial Rounded MT Bold",15,"bold"),padx=50,pady=3)
lblEmail.grid(row=4,column=2,sticky=W)
```

```
File  Edit  Format  Run  Options  Window  Help
txtEmail=Entry(DataFrameLeft, textvariable=self.Email,font=("times new roman",13),width=29)
txtEmail.grid(row=4,column=3,sticky=W)

lblDate=Label(DataFrameLeft,bg="lightyellow",text="DATE",font=("Arial Rounded MT Bold",15,"bold"),padx=50,pady=3)
lblDate.grid(row=5,column=2,sticky=W)
txtDate=Entry(DataFrameLeft,textvariable=self.Date,font=("times new roman",13),width=29)
txtDate.grid(row=5,column=3,sticky=W)

lblCity=Label(DataFrameLeft,bg="lightyellow",text="CITY",font=("Arial Rounded MT Bold",15,"bold"),padx=50,pady=3)
lblCity.grid(row=6,column=2,sticky=W)
txtCity=Entry(DataFrameLeft, textvariable=self.City,font=("times new roman",13),width=29)
txtCity.grid(row=6,column=3,sticky=W)

lblState=Label(DataFrameLeft,bg="lightyellow",text="STATE",font=("Arial Rounded MT Bold",15,"bold"),padx=50,pady=3)
lblState.grid(row=7,column=2,sticky=W)
txtState=Entry(DataFrameLeft, textvariable=self.State,font=("times new roman",13),width=29)
txtState.grid(row=7,column=3,sticky=W)

# ====================Button Frames ========================================#
FrameButton=Frame(self.root,bd=5,relief=RIDGE,padx=20,bg="lightyellow")
FrameButton.place(x=0,y=330,width=1550,height=50)

btnAddData=Button(FrameButton,command=self.add_data,text="ADD",font=("arial",13,"bold"),width=18,bg="lightyellow",fg="bla
btnAddData.grid(row=0,column=0,padx=12)

btnShowData=Button(FrameButton,command=self.show_data,text="SHOW",font=("arial",13,"bold"),width=18,bg="lightyellow",fg
btnShowData.grid(row=0,column=1,padx=12)
```

```
File  Edit  Format  Run  Options  Window  Help
    btnUpdateData=Button(FrameButton,command=self.update_data,text="UPDATE",font=("arial",13,"bold"),width=18,bg="lightyellc
    btnUpdateData.grid(row=0,column=2,padx=12)

    btnDeleteData=Button(FrameButton,command=self.delete_data,text="DELETE",font=("arial",13,"bold"),width=18,bg="lightyellow
    btnDeleteData.grid(row=0,column=3,padx=12)

    btnResetData=Button(FrameButton,command=self.reset_data,text="RESET ",font=("arial",13,"bold"),width=18,bg="lightyellow",f
    btnResetData.grid(row=0,column=4,padx=12)

    btnExitData=Button(FrameButton,command=self.iExit,text="EXIT ",font=("arial",13,"bold"),width=18,bg="lightyellow",fg="black",
    btnExitData.grid(row=0,column=5,padx=10)

    #=================================== Information Frames ====================================#

    FrameDetails=Frame(self.root,bd=5,relief=RIDGE,padx=20,bg="lightyellow")
    FrameDetails.place(x=0,y=100,width=1500,height=220)

    xScroll=ttk.Scrollbar(FrameDetails,orient=HORIZONTAL)
    yScroll=ttk.Scrollbar(FrameDetails,orient=VERTICAL)

    self.RTO_Table=ttk.Treeview(FrameDetails,column=("rto","Reg_No","FirstName","LastName","Gender","Address","Pincode","M
       "AdharID","Education","dob","Category","Email","Date","City","State"),\
          x=xScroll.set,y=yScroll.set)
    xScroll.pack(side=BOTTOM,fill=X)
    yScroll.pack(side=RIGHT,fill=Y)

    xScroll.config(command=self.RTO_Table.xview)
```

```
File  Edit  Format  Run  Options  Window  Help
    xScroll.config(command=self.RTO_Table.xview)
    yScroll.config(command=self.RTO_Table.yview)

    self.RTO_Table.heading("rto",text="CODE")
    self.RTO_Table.heading("Reg_No",text="Registration No")
    self.RTO_Table.heading("FirstName",text="First Name")
    self.RTO_Table.heading("LastName",text="Last Name")
    self.RTO_Table.heading("Gender",text="Gender")
    self.RTO_Table.heading("Address",text="Address")
    self.RTO_Table.heading("Pincode",text="Pincode")
    self.RTO_Table.heading("Mobile",text="Mobile No.")
    self.RTO_Table.heading("AdharID",text="Aadhar No")
    self.RTO_Table.heading("Education",text="Education")
    self.RTO_Table.heading("dob",text="dob")
    self.RTO_Table.heading("Category",text="category")
    self.RTO_Table.heading("Email",text="Email")
    self.RTO_Table.heading("Date",text="Date")
    self.RTO_Table.heading("City",text="City")
    self.RTO_Table.heading("State",text="State")

    self.RTO_Table["show"]="headings"
    self.RTO_Table.pack(fill=BOTH,expand=1)

    self.RTO_Table.column("rto",width=20)
    self.RTO_Table.column("Reg_No",width=20)
    self.RTO_Table.column("FirstName",width=50)
    self.RTO_Table.column("LastName",width=50)
    self.RTO_Table.column("Gender",width=30)
```

```
    self.RTO_Table.column("Address",width=50)
    self.RTO_Table.column("Pincode",width=30)
    self.RTO_Table.column("Mobile",width=30)
    self.RTO_Table.column("AdharID",width=30)
    self.RTO_Table.column("Education",width=30)
    self.RTO_Table.column("dob",width=20)
    self.RTO_Table.column("Category",width=30)
    self.RTO_Table.column("Email",width=30)
    self.RTO_Table.column("Date",width=20)
    self.RTO_Table.column("City",width=20)
    self.RTO_Table.column("State",width=20)


    self.fetch_data()
    self.RTO_Table.bind("<ButtonRelease-1>",self.get_cursor)

  def add_data(self):
    mydb=sql.connect(host="localhost",user="root",passwd="12345",database="myRTO")
    mycur=mydb.cursor()

    mycur.execute("insert into details values(%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s,%s)",(
                                                    self.rto.get(),
                                                    self.Reg_No.get(),
                                                    self.FirstName.get(),
                                                    self.LastName.get(),
                                                    self.Gender.get(),
                                                    self.Address.get(),
                                                    self.Pincode.get(),
                                                    self.Mobile.get(),
                                                    self.AdharID.get(),
                                                    self.Education.get(),
                                                    self.dob.get(),
                                                    self.Category.get(),
                                                    self.Email.get(),
                                                    self.Date.get(),
                                                    self.City.get(),
                                                    self.State.get(),
                                                    ))
    mydb.commit()
    self.fetch_data()
    messagebox.showinfo("Success","created successfully.")
    mycur.close()

  def update_data(self):
    mydb=sql.connect(host="localhost",user="root",passwd="12345",database="myRTO")
    mycur=mydb.cursor()
    mycur.execute("update details set rto=%s,FirstName=%s,LastName=%s,Gender=%s,Address=%s,Pincode=%s,\
      Mobile=%s,AdharID=%s,Education=%s,dob=%s,Category=%s,Email=%s,Date=%s,City=%s, State=%s where Reg_No=%s;",(
                                    self.rto.get(),
                                    self.FirstName.get(),
                                    self.LastName.get(),
                                    self.Gender.get(),
                                    self.Address.get(),
                                    self.Pincode.get(),
                                    self.Mobile.get()
```

```
File  Edit  Format  Run  Options  Window  Help
                                        self.Mobile.get(),
                                        self.AdharID.get(),
                                        self.Education.get(),
                                        self.dob.get(),
                                        self.Category.get(),
                                        self.Email.get(),
                                        self.Date.get(),
                                        self.City.get(),
                                        self.State.get(),
                                        self.Reg_No.get()
                                        ))
        mydb.commit()
        self.fetch_data()
        self.reset_data()
        mydb.close()
        messagebox.showinfo("Success","updated successfully.")

    def fetch_data(self):
        mydb=sql.connect(host="localhost",user="root",passwd="12345",database="myRTO")
        mycur=mydb.cursor()
        mycur.execute("select * from details")
        rows=mycur.fetchall()

        if len(rows)!=0:
            self.RTO_Table.delete(*self.RTO_Table.get_children())
            for i in rows:
                self.RTO_Table.insert("",END,values=i)
            mydb.commit()
File  Edit  Format  Run  Options  Window  Help
        mydb.close()

    def get_cursor(self,event=""):
        cursor_row=self.RTO_Table.focus()
        content=self.RTO_Table.item(cursor_row)
        row=content["values"]
        self.rto.set(row[0]),
        self.Reg_No.set(row[1]),
        self.FirstName.set(row[2]),
        self.LastName.set(row[3]),
        self.Gender.set(row[4]),
        self.Address.set(row[5]),
        self.Pincode.set(row[6]),
        self.Mobile.set(row[7]),
        self.AdharID.set(row[8]),
        self.Education.set(row[9]),
        self.dob.set(row[10]),
        self.Category.set(row[11]),
        self.Email.set(row[12]),
        self.Date.set(row[13]),
        self.City.set(row[14]),
        self.State.set(row[15]),

    def show_data(self):
        self.txtBox.insert(END,"RTO code:\t\t"+self.rto.get()+"\n")
        self.txtBox.insert(END,"Registration No.:\t\t"+self.Reg_No.get()+"\n")
        self.txtBox.insert(END,"First Name:\t\t"+self.Gender.get()+"\n")
        self.txtBox.insert(END,"Last Name:\t\t"+self.FirstName.get()+"\n")
```

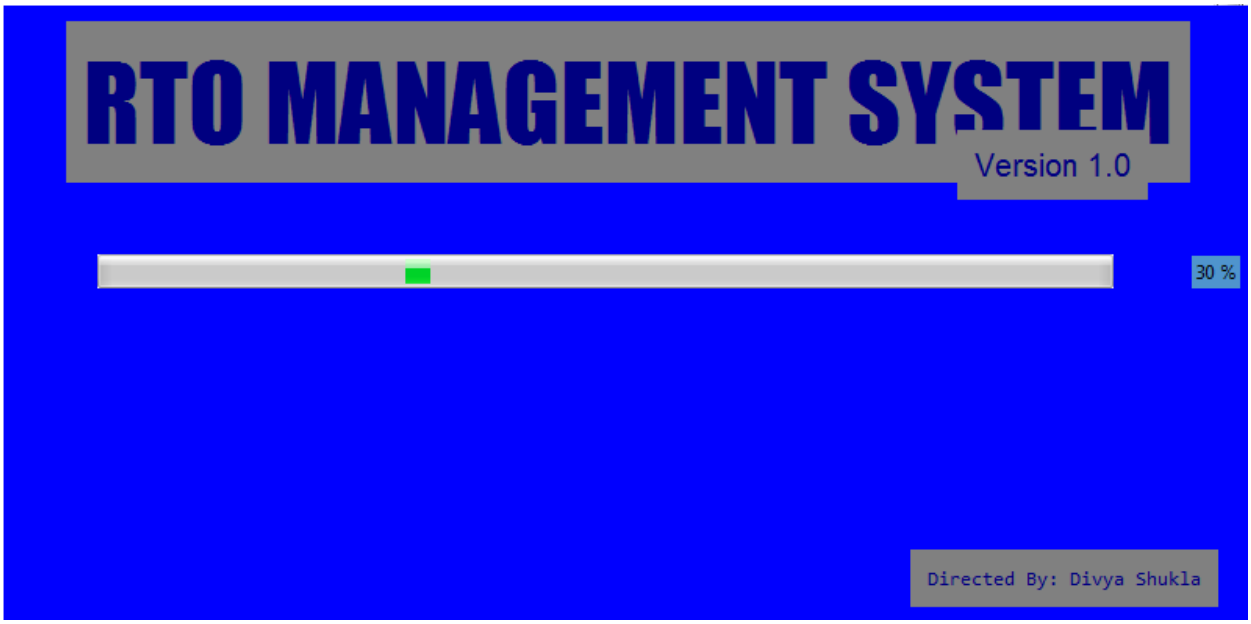
```
        self.txtBox.insert(END,"Gender:\t\t"+self.LastName.get()+"\n")
        self.txtBox.insert(END,"Address:\t\t"+self.Address.get()+"\n")
        self.txtBox.insert(END,"Pincode:\t\t"+self.Pincode.get()+"\n")
        self.txtBox.insert(END,"Mobile No.:\t\t"+self.Mobile.get()+"\n")
        self.txtBox.insert(END,"Aadhar No:\t\t"+self.AdharID.get()+"\n")
        self.txtBox.insert(END,"Education Qualification :\t\t"+self.Education.get()+"\n")
        self.txtBox.insert(END,"Date Of Birth:\t\t"+self.dob.get()+"\n")
        self.txtBox.insert(END,"Category:\t\t"+self.Category.get()+"\n")
        self.txtBox.insert(END,"Email:\t\t"+self.Email.get()+"\n")
        self.txtBox.insert(END,"Date:\t\t"+self.Date.get()+"\n")
        self.txtBox.insert(END,"City:\t\t"+self.City.get()+"\n")
        self.txtBox.insert(END,"State:\t\t"+self.State.get()+"\n")

    def reset_data(self):
        self.rto.set(""),
        self.Reg_No.set(""),
        self.FirstName.set(""),
        self.LastName.set(""),
        self.Gender.set(""),
        self.Address.set(""),
        self.Pincode.set(""),
        self.Mobile.set(""),
        self.AdharID.set(""),
        self.Education.set(""),
        self.dob.set(""),
        self.Category.set(""),
        self.Email.set(""),
        self.Date.set(""),
```

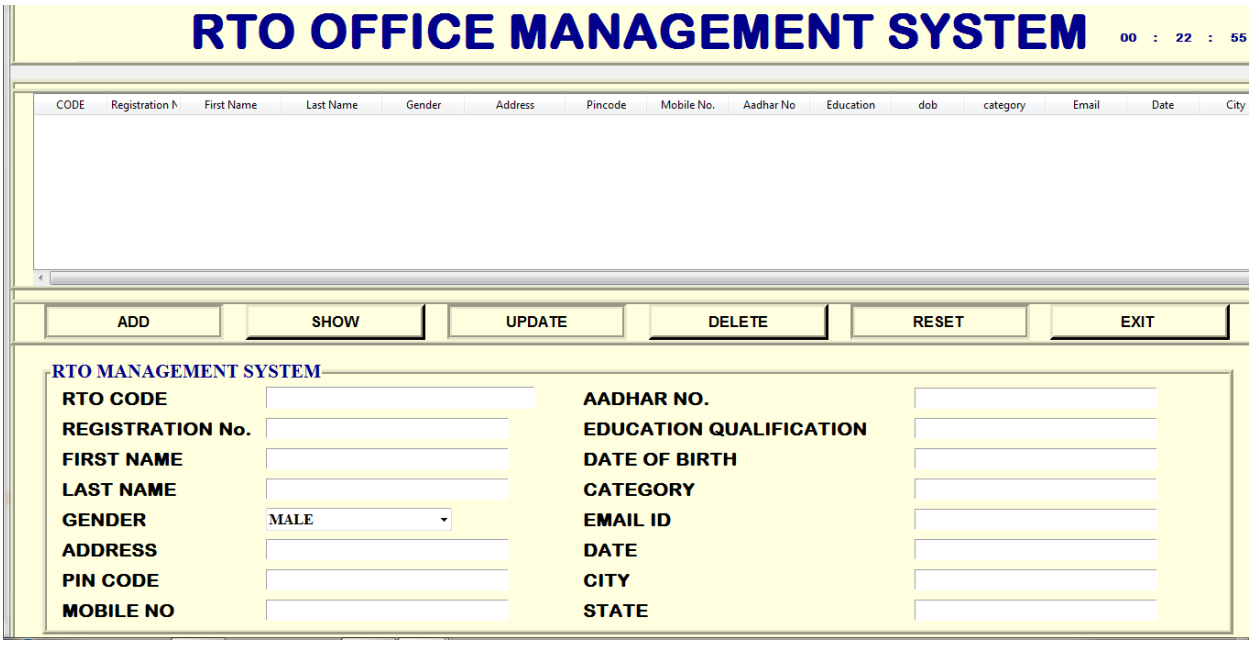
Ln: 382 Col: 6

```
        self.Date.set(""),
        self.City.set(""),
        self.State.set(""),


    def iExit(self):
        iExit=tkinter.messagebox.askyesno("RTO Management System","Do you want to exit?")
        if iExit>0:
            self.root.destroy()
            return

    def delete_data(self):
        if self.Reg_No.get()=="" or self.rto.get()=="":
            messagebox.showerror("Error!!!","First select the Code.")
        else:
            mydb=sql.connect(host="localhost",user="root",passwd="12345",database="myRTO")
            mycur=mydb.cursor()
            query="delete from details where Reg_No=%s"
            value=(self.Reg_No.get(),)
            mycur.execute(query,value)

            mydb.commit()
            self.fetch_data()
            messagebox.showinfo("Success","deleted successfully.")
            self.reset_data()
            mydb.close()
```

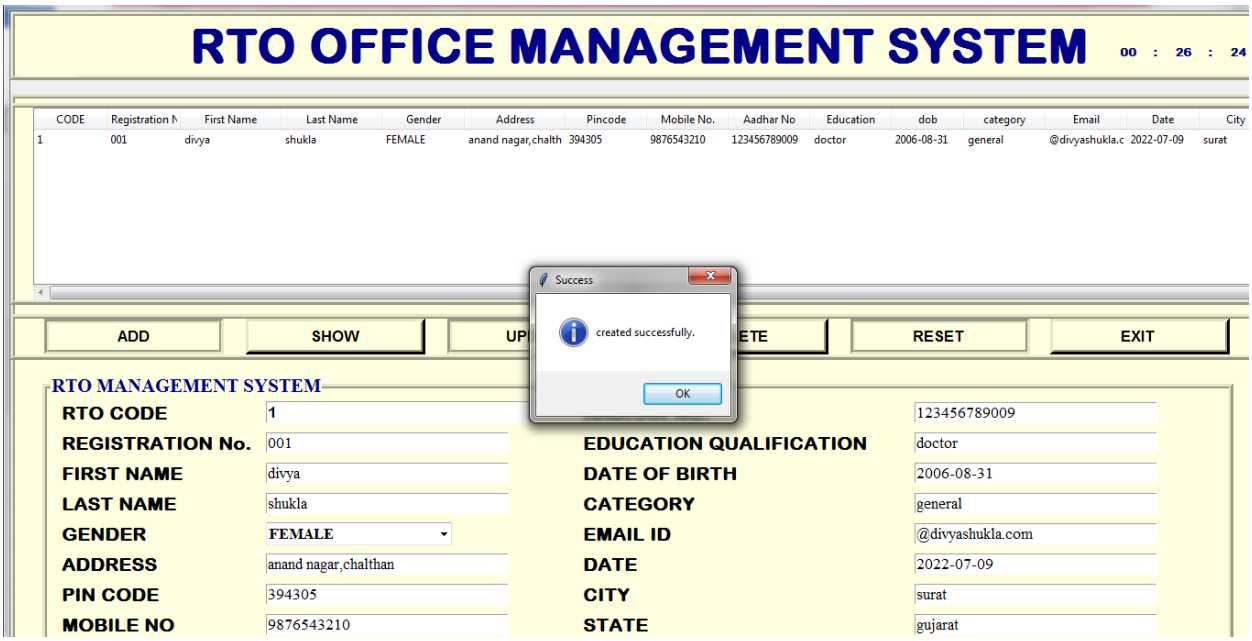
```
if __name__=="__main__":
    SplashScreen()
    root=Tk()
    obj=RTOManagementSystem(root)
    root.mainloop()
```

OUTPUT

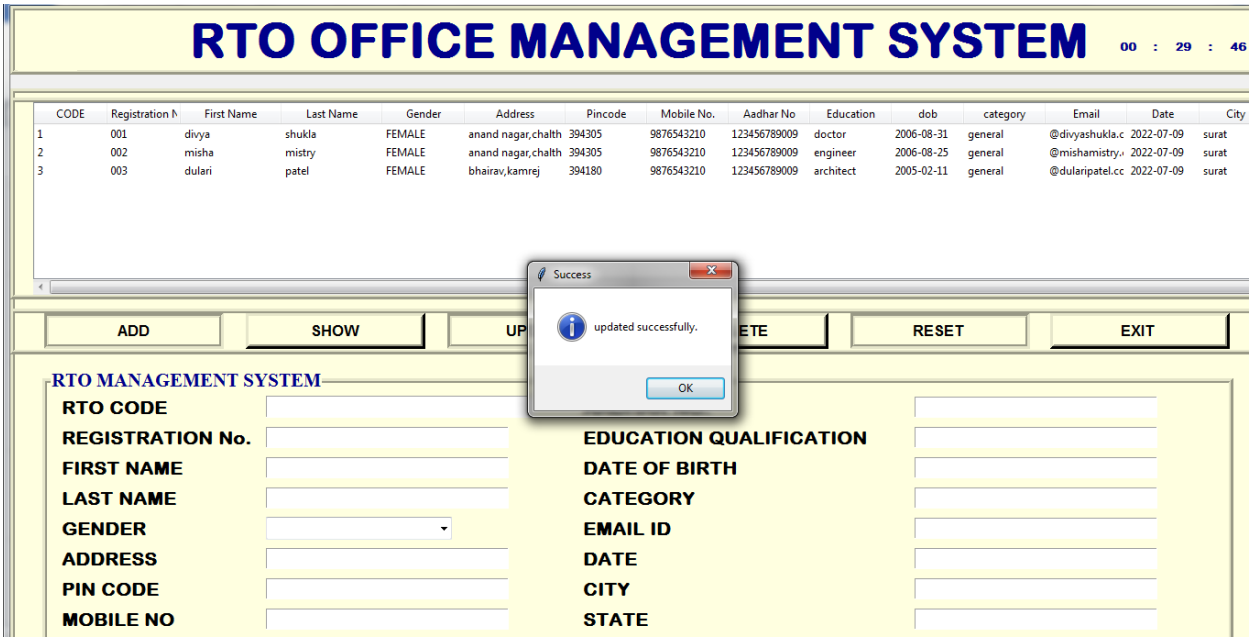

RTO MANAGEMENT SYSTEM
Version 1.0
30 %
Directed By: Divya Shukla


RTO OFFICE MANAGEMENT SYSTEM
00 : 22 : 55
CODE
Registration N
First Name
Last Name
Gender
Address
Pincode
Mobile No.
Aadhar No
Education
dob
category
Email
Date
City
ADD
SHOW
UPDATE
DELETE
RESET
EXIT
RTO MANAGEMENT SYSTEM
RTO CODE
REGISTRATION No.
FIRST NAME
LAST NAME
GENDER
MALE
ADDRESS
PIN CODE
MOBILE NO
AADHAR NO.
EDUCATION QUALIFICATION
DATE OF BIRTH
CATEGORY
EMAIL ID
DATE
CITY
STATE

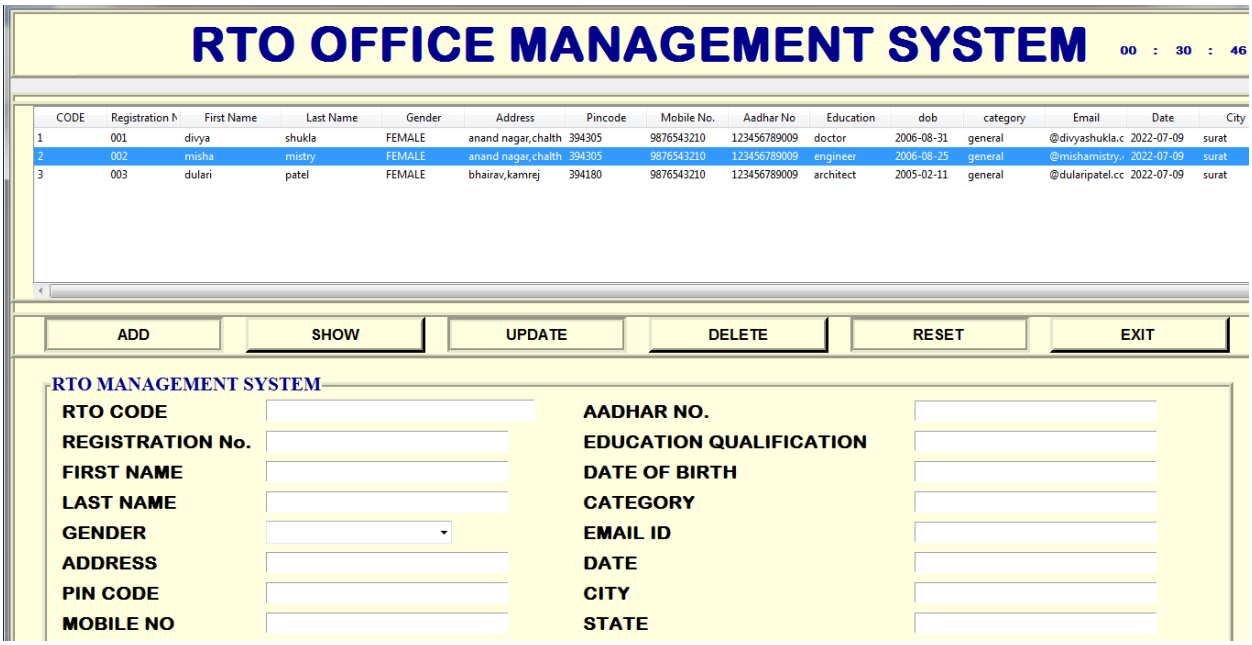
ADD


RTO OFFICE MANAGEMENT SYSTEM
00 : 26 : 24
CODE Registration N First Name Last Name Gender Address Pincode Mobile No. Aadhar No Education dob category Email Date City
1 001 divya shukla FEMALE anand nagar,chalth 394305 9876543210 123456789009 doctor 2006-08-31 general @divyashukla.c 2022-07-09 surat
Success
created successfully.
OK
ADD
SHOW
UP
ETE
RESET
EXIT
RTO MANAGEMENT SYSTEM
RTO CODE 1
REGISTRATION No. 001
FIRST NAME divya
LAST NAME shukla
GENDER FEMALE
ADDRESS anand nagar,chalthan
PIN CODE 394305
MOBILE NO 9876543210
EDUCATION QUALIFICATION doctor
DATE OF BIRTH 2006-08-31
CATEGORY general
EMAIL ID @divyashukla.com
DATE 2022-07-09
CITY surat
STATE gujarat
123456789009

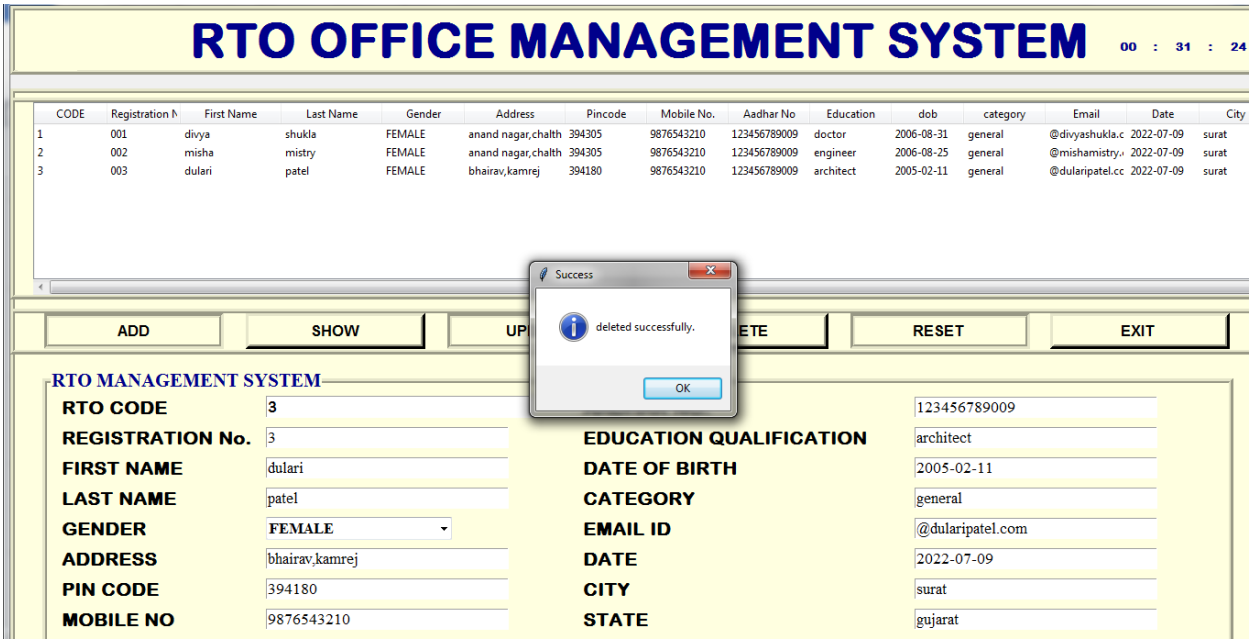
UPDATE


RTO OFFICE MANAGEMENT SYSTEM
00 : 29 : 46
CODE Registration N First Name Last Name Gender Address Pincode Mobile No. Aadhar No Education dob category Email Date City
1 001 divya shukla FEMALE anand nagar,chalth 394305 9876543210 123456789009 doctor 2006-08-31 general @divyashukla.c 2022-07-09 surat
2 002 misha mistry FEMALE anand nagar,chalth 394305 9876543210 123456789009 engineer 2006-08-25 general @mishamistry.c 2022-07-09 surat
3 003 dulari patel FEMALE bhairav,kamrej 394180 9876543210 123456789009 architect 2005-02-11 general @dularipatel.cc 2022-07-09 surat
Success
updated successfully.
OK
ADD
SHOW
UP
ETE
RESET
EXIT
RTO MANAGEMENT SYSTEM
RTO CODE
REGISTRATION No.
FIRST NAME
LAST NAME
GENDER
ADDRESS
PIN CODE
MOBILE NO
EDUCATION QUALIFICATION
DATE OF BIRTH
CATEGORY
EMAIL ID
DATE
CITY
STATE

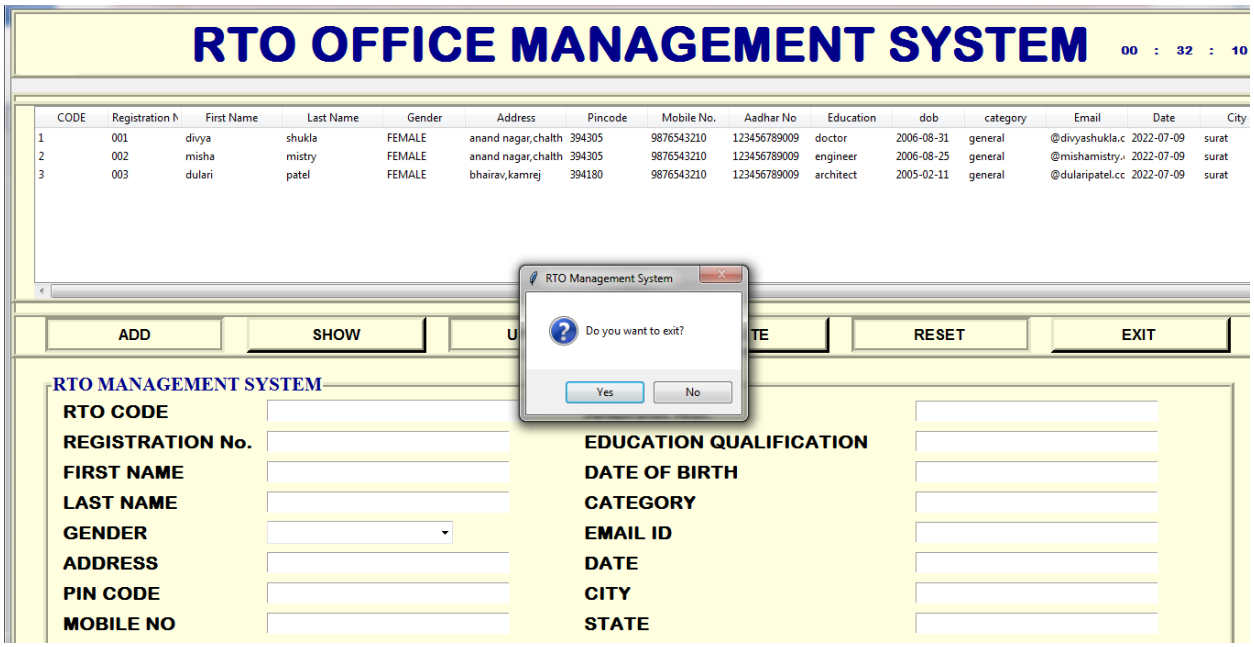
RESET



DELETE



EXIT


RTO OFFICE MANAGEMENT SYSTEM
00 : 32 : 10
CODE
Registration N
First Name
Last Name
Gender
Address
Pincode
Mobile No.
Aadhar No
Education
dob
category
Email
Date
City
1 001 divya shukla FEMALE anand nagar,chalth 394305 9876543210 123456789009 doctor 2006-08-31 general @divyashukla.c 2022-07-09 surat
2 002 misha mistry FEMALE anand nagar,chalth 394305 9876543210 123456789009 engineer 2006-08-25 general @mishamistry.c 2022-07-09 surat
3 003 dulari patel FEMALE bhairav,kamrej 394180 9876543210 123456789009 architect 2005-02-11 general @dularipatel.cc 2022-07-09 surat
RTO Management System
Do you want to exit?
Yes
No
ADD
SHOW
RESET
EXIT
RTO MANAGEMENT SYSTEM
RTO CODE
REGISTRATION No.
FIRST NAME
LAST NAME
GENDER
ADDRESS
PIN CODE
MOBILE NO
EDUCATION QUALIFICATION
DATE OF BIRTH
CATEGORY
EMAIL ID
DATE
CITY
STATE

DATABASE STRUCTURE

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| anshika            |
| anu                |
| blood              |
| employee           |
| hospital           |
| items              |
| mihir              |
| mylibrary          |
| myphone            |
| myphone1           |
| myrto              |
| mysql              |
| mystation          |
| performance_schema |
| rahul              |
| sms                |
| station            |
| student            |
| test               |
+--------------------+
20 rows in set (0.03 sec)

mysql> use myrto;
Database changed
mysql> show tables;
+-----------------+
| Tables_in_myrto |
+-----------------+
| details         |
+-----------------+
1 row in set (0.00 sec)

mysql> select * from details;
+------+--------+-----------+----------+--------+----------------------+--------
-------+------------+----------+------------------+------------+-------+--------
| rto  | Reg_No | FirstName | LastName | Gender | Address              | Pincode
cation | dob        | Category | Email            | Date       | City  | State
+------+--------+-----------+----------+--------+----------------------+--------
-------+------------+----------+------------------+------------+-------+--------
| 1    | 001    | divya     | shukla   | FEMALE | anand nagar,chalthan | 394305
tor    | 2006-08-31 | general  | @divyashukla.com | 2022-07-09 | surat | gujarat
| 2    | 002    | misha     | mistry   | FEMALE | anand nagar,chalthan | 394305
ineer  | 2006-08-25 | general  | @mishamistry.com | 2022-07-09 | surat | gujarat
| 3    | 003    | dulari    | patel    | FEMALE | bhairav,kamrej       | 394180
hitect | 2005-02-11 | general  | @dularipatel.com | 2022-07-09 | surat | gujarat
+------+--------+-----------+----------+--------+----------------------+--------
-------+------------+----------+------------------+------------+-------+--------
3 rows in set (0.00 sec)

mysql>
```

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   By : Sumita Arora

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Website: https://www.xiipython.blogspot.com