

A PROJECT REPORT ON "Parking Management System"

A Mini Project Report Submitted in Partial Fulfilment of Requirement for the 3rd Semester B.TECH Course during the academic year 2022

Submitted by

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ACKNOWLEDGEMENT

I would like to thank my mentor - Prof. Deepika Ghai for his advice and inputs on this project. Many thanks to my friends and seniors as well, who spent countless hours to listen and provide feedbacks.



SCREENSHOTS

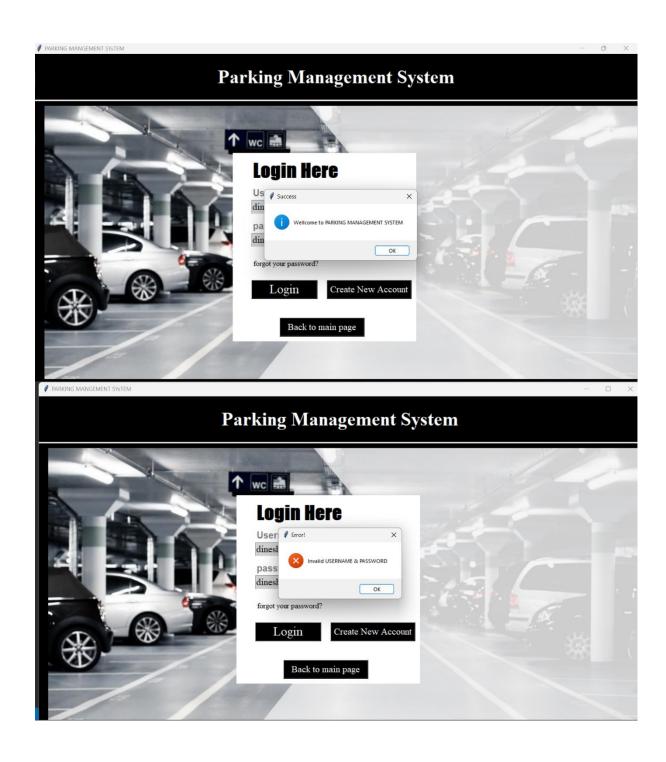
Main page: PARKING MANGEMENT SYSTEM **Parking Management System** MAIN MENU

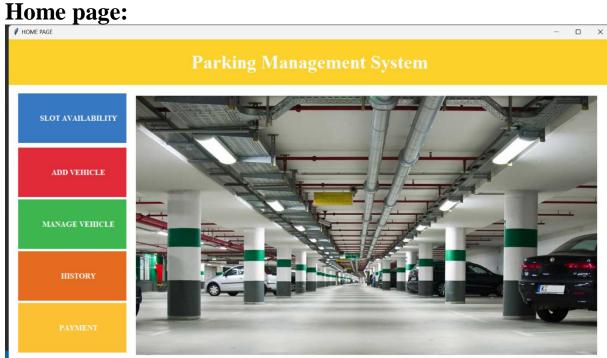
SIGN UP PAGE Sign Up



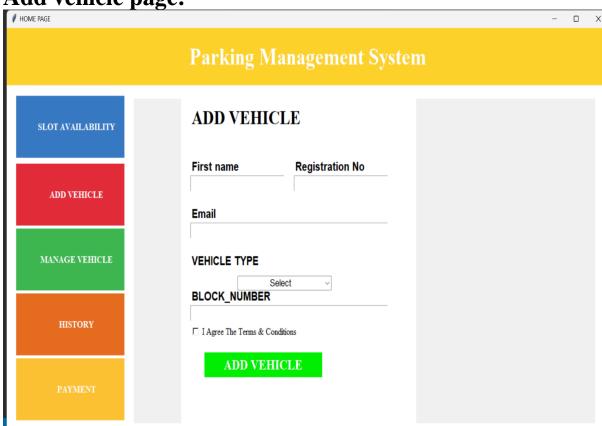
Login page: PARKING MANGEMENT SYSTEM

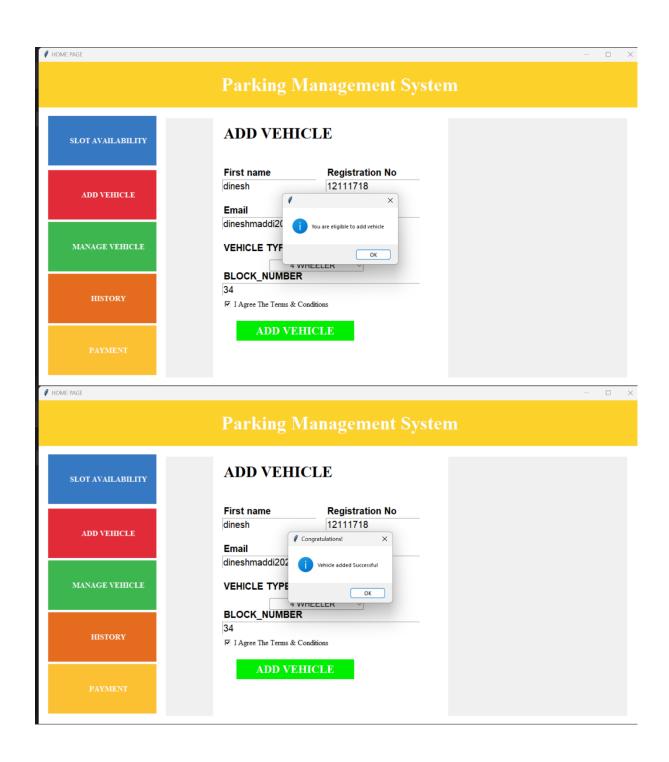




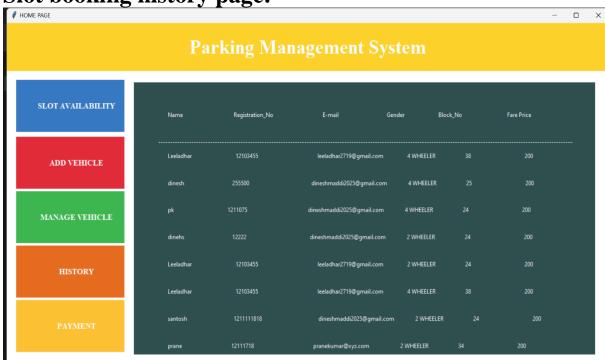


Add vehicle page:





Slot booking history page:

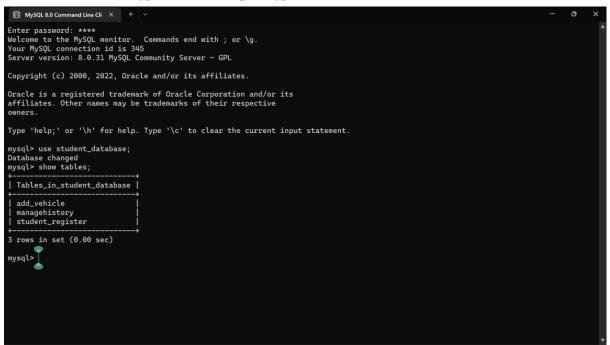


Slot available page:



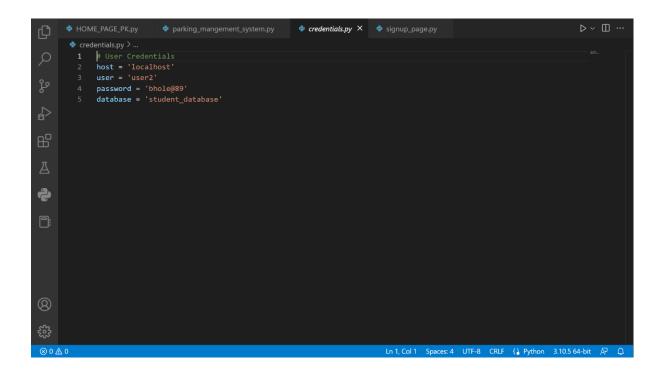


DATABASE PAGES:



	rom manag	ehistor	v:										
		stration_no email		+ vehicle_type		bloc	t ock_no fareprice		+ ice				
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	 name	email		question		<u>t</u> -	answer		ssword	+			
dinesh ma Leeladhar Re prane ku sunny bl	maddi dinesh2025@gmail.com maddi dineshmaddi2025@gmail.com Reddy leeladhar2719@gmail.com kumar pranekumar@xyz.com bhardwaj sunnny@gmail.com redy vishnu@gmail.com		Your first teacher name What's your pet name? Your favorite movie Your first teacher name What's your pet name? What's your pet name?			dinu d Aacharya d prane dinu d		neshmadd nesh33 eela anekumar nesh2420 shnu33					

```
MySQL 8.0 Command Line Cli ×
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> use student_database;
Database changed
mysql> show tables;
 | Tables_in_student_database |
  add_vehicle
  managehistory
student_register
3 rows in set (0.00 sec)
mysql> select*from add_vehicle;
Empty set (0.00 sec)
mysql> select*from managehistory;
              | registration_no | email
                                                                      vehicle_type | block_no | fareprice |
 name
                      Leeladhar
                                                                                               38
25
24
24
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38
24
34
                                                                                                            200
200
200
200
200
  dinesh
  pk
dinehs
Leeladhar
Leeladhar
                                                                                                            200
200
200
  santosh
  dinesh
9 rows in set (0.00 sec)
mysql>
```



Codes:

THIS THE MAIN PAGE CODE WHERE TWO PAGES LINKED WITH THIS PAGE BELOW UNDERLINED PAGES ARE IMPORTED PAGES

```
from msilib.schema import ComboBox from tkinter import *
from PIL import ImageTk from tkinter import messagebox
from HOME_PAGE_PK import *
import credentials as cr import pymysql from tkinter import ttk import subprocess
from signup_page import SignUp
```

class login(Frame):

```
frame_login = Frame(self.fr, bg="white")
    frame_login.place(x=400, y=150, height=300, width=400)
    self.b1 = Button(frame_login, height=5, width=14, bg="black",
fg="white", bd=0, text="Login",
               font=("times new roman", 13, "bold"), command=lambda:
self.Login())
    self.b2 = Button(frame_login, height=5, width=14, bg="black",
fg="white", bd=0, text="New User",
               font=("times new roman", 13, "bold"),
command=lambda:self.redirect window())
    self.b3 = Button(frame_login, height=5, width=14, bg="black",
fg="white", bd=0, text="MAIN MENU",
               font=("times new roman", 13, "bold"), command=lambda:
self.Login())
    self.b1.place(x=10, y=10)
    self.b2.place(x=230, y=10)
    self.b3.place(x=130, y=170)
  def home1(self):
    self.root = root
    self.root.title("PARKING MANGEMENT SYsTEM")
    self.root.geometry("1280x800+0+0")
    self.root.resizable(False, False)
    self.lt = Label(self.root, text="Parking Management System", bg="black",
fg="white", bd=20,
              font=("times new roman", 30, "bold"), padx=2, pady=6)
    self.lt.pack(side=TOP, fill=X)
    self.fr = Frame(self.root, bg="black")
    self.fr.place(x=0, y=100, width=1300, height=600)
    self.bg = ImageTk.PhotoImage(file="E:/GUI USING
TKINTER/image/home.jpg")
    self.bg image = Label(self.fr, image=self.bg).place(x=0, y=0, relheight=1,
relwidth=1)
```

```
frame_login = Frame(self.fr, bg="white")
    frame_login.place(x=400, y=150, height=300, width=400)
    self.b1 = Button(frame_login, height=5, width=14, bg="black",
fg="white", bd=0, text="Login",
               font=("times new roman", 13, "bold"), command=lambda:
self.Login())
    self.b2 = Button(frame_login, height=5, width=14, bg="black",
fg="white", bd=0, text="New User",
               font=("times new roman", 13, "bold"),
command=lambda:self.redirect_window())
    self.b3 = Button(frame_login, height=5, width=14, bg="black",
fg="white", bd=0, text="MAIN MENU",
               font=("times new roman", 13, "bold"), command=lambda:
self.Login())
    self.b1.place(x=10, y=10)
    self.b2.place(x=230, y=10)
    self.b3.place(x=130, y=170)
  def Login(self):
    self.fr = Frame(self.root, bd=10, padx=10, bg="black")
    self.fr.place(x=0, y=100, width=1300, height=600)
    self.bg = ImageTk.PhotoImage(file="E:/GUI USING
TKINTER/image/website_keyvisual_parking.jpg")
    self.bg_image = Label(self.fr, image=self.bg).place(x=0, y=0, relheight=1,
relwidth=1)
    # login frame
    fl = Frame(self.fr, bg="white")
    fl.place(x=400, y=100, height=400, width=390)
    title = Label(fl, text="Login Here", font=("Impact", 30, "bold"),
bg="white").place(x=40, y=10)
    lbl_username = Label(fl, text="Username", font=("goud old style", 15,
"bold"), bg="white", fg="gray")
    self.txt_user = Entry(fl, font=("times new roman", 15), bg="lightgray")
    lbl_username.place(x=40, y=70)
    self.txt_user.place(x=40, y=100, width=300, height=30)
    lbl_pass = Label(fl, text="password", font=("goud old style", 15, "bold"),
bg="white", fg="gray")
    lbl_pass.place(x=40, y=140)
    self.txt_pass = Entry(fl, font=("times new roman", 15), bg="lightgray")
    self.txt_pass.place(x=40, y=170, width=300, height=30)
```

```
forget = Button(fl, text="forgot your password?", bg="white", bd=0,
fg="black",command=self.forgot_func,
              font=("times new roman", 12)).place(x=40, y=220)
    login_btn = Button(self.root, text="Login", bg="black", fg="white",
font=("times new roman", 20),
                command=self.login_func).place(x=460, y=480, width=140,
height=40)
    create_btn = Button(self.root, text="Create New Account",bg="black",
fg="white", font=("times new roman", 15),
                command=self.redirect_window).place(x=620, y=480,
width=180, height=40)
    back_btn = Button(self.root, text="Back to main page",bg="black",
fg="white", font=("times new roman", 15),
                command=self.home1).place(x=520, y=560, width=180,
height=40)
  def login_func(self):
    if self.txt_user.get() == "" and self.txt_pass.get() == "":
       messagebox.showerror("Error!", "All fields are required",
parent=self.root)
    else:
       try:
         connection = pymysql.connect(host=cr.host, user=cr.user,
password=cr.password, database=cr.database)
         cur = connection.cursor()
         cur.execute("select * from student_register where email=%s and
password=%s",
                 (self.txt_user.get(), self.txt_pass.get()))
         row = cur.fetchone()
         if row == None:
            messagebox.showerror("Error!", "Invalid USERNAME &
PASSWORD", parent=self.root)
         else:
            messagebox.showinfo("Success","Wellcome to PARKING
MANAGEMENT SYSTEM",parent=self.root)
            # Clear all the entries
            self.redirect window1()
            self.reset_fields()
            connection.close()
```

```
except Exception as e:
        messagebox.showerror("Error!", f"Error due to {str(e)}",
parent=self.root)
  def forgot_func(self):
    if self.txt_user.get() == "":
      messagebox.showerror("Error!", "Please enter your User Id",
parent=self.root)
    else:
      try:
        connection = pymysql.connect(host=cr.host, user=cr.user,
password=cr.password, database=cr.database)
        cur = connection.cursor()
        cur.execute("select * from student_register where email=%s",
self.txt_user.get())
        row = cur.fetchone()
        if row == None:
           messagebox.showerror("Error!", "userid doesn't exists")
        else:
           connection.close()
           # ======SECOND
# -----Toplevel:create a window top of another window------
           # -----focus_force:Helps to to focus on the current window----
           # -----Grab:Helps to grab the current window until user ungrab it---
           self.root = Toplevel()
           self.root.title("Forget Password?")
           self.root.geometry("400x440+450+200")
           self.root.config(bg="white")
           self.root.focus_force()
           self.root.grab_set()
```

```
title3 = Label(self.root, text="Change your password", font=("times
new roman", 20, "bold"),
                     bg="white").place(x=10, y=10)
            title4 = Label(self.root, text="It's quick and easy", font=("times
new roman", 12),
                     bg="white").place(x=10, y=45)
            title5 = Label(self.root, text="Select your question", font=("times
new roman", 15, "bold"),
                     bg="white").place(x=10, y=85)
            self.sec ques = ttk.Combobox(self.root, font=("times new roman",
13), state='readonly',
                              justify=CENTER)
            self.sec_ques['values'] = (
            "Select", "What's your pet name?", "Your first teacher name",
"Your birthplace",
            "Your favorite movie")
            self.sec_ques.place(x=10, y=120, width=270)
            self.sec ques.current(0)
            title6 = Label(self.root, text="Answer", font=("times new roman",
15, "bold"), bg="white").place(
              x=10, y=160
            self.ans = Entry(self.root, font=("arial"))
            self.ans.place(x=10, y=195, width=270)
            title7 = Label(self.root, text="New Password", font=("times new
roman", 15, "bold"),
                     bg="white").place(x=10, y=235)
            self.new_pass = Entry(self.root, font=("arial"))
            self.new_pass.place(x=10, y=270, width=270)
            self.create_button = Button(self.root, text="Submit",
command=self.change_pass,
                             font=("times new roman", 18, "bold"), bd=0,
cursor="hand2", bg="green2"
                             fg="white").place(x=95, y=340, width=200)
```

```
except Exception as e:
          messagebox.showerror("Error", f"{e}")
  def change_pass(self):
     if self.txt_user.get() == "" or self.sec_ques.get() == "Select" or
self.new_pass.get() == "":
       messagebox.showerror("Error!", "Please fill the all entry field
correctly")
     else:
       try:
          connection = pymysql.connect(host=cr.host, user=cr.user,
password=cr.password, database=cr.database)
          cur = connection.cursor()
          cur.execute("select * from student_register where email=%s and
question=%s and answer=%s",
                 (self.txt_user.get(), self.sec_ques.get(), self.ans.get()))
          row = cur.fetchone()
          if row == None:
            messagebox.showerror("Error!", "Please fill the all entry field
correctly")
          else:
            try:
               cur.execute("update student_register set password=%s where
email=%s",
                      (self.new_pass.get(), self.txt_user.get()))
               connection.commit()
               messagebox.showinfo("Successful", "Password has changed
successfully")
               connection.close()
               self.reset fields()
               self.root.destroy()
            except Exception as er:
               messagebox.showerror("Error!", f"{er}")
       except Exception as er:
          messagebox.showerror("Error!", f"{er}")
```

```
def redirect_window(self):
      self.root.destroy()
      # Importing the signup window.
     # The page must be in the same directory
      root = Tk()
      obj = SignUp(root)
      root.mainloop()
  def redirect_window1(self):
      self.root.destroy()
      # Importing the signup window.
     # The page must be in the same directory
      root = Tk()
      obj = home(root)
      root.mainloop()
  def reset_fields(self):
     self.txt_user.delete(0, END)
     self.txt_pass.delete(0, END)
if _name_ == "_main_":
   root = Tk()
   obj = login(root)
   root.mainloop()
THIS IS HOME PAGE CODE
import configparser
from msilib.schema import ComboBox
from tkinter import *
from tkinter import messagebox, ttk
import mysql.connector
import pymysql
from PIL import Image, ImageTk
import credentials as cr
class home:
  def __init__(self, root):
    self.root = root
    self.root.title("HOME PAGE")
    self.root.geometry("1280x800+0+0")
    self.root.config(bg="white")
    self.lt = Label(self.root, text="Parking Management System", bg="#FCD12A",
fg="white", bd=20,
             font=("times new roman", 30, "bold"), padx=2, pady=6)
```

```
self.lt.pack(side=TOP, fill=X)
    self.fr = Frame(self.root, bd=10, padx=10, bg="white")
    self.fr.place(x=0, y=100, width=250, height=600)
    self.b1 = Button(self.fr, height=5, width=25, bg="#3778C2", fg="white", bd=0,
text="HOME",
               font=("times new roman", 13, "bold"), command=lambda: self.home_fun())
    self.b2 = Button(self.fr, height=5, width=25, bg="#E12B38", fg="white", bd=0,
text="ADD VEHICLE",
               font=("times new roman", 13, "bold"), command=lambda: self.vecy_fun())
    self.b3 = Button(self.fr, height=5, width=25, bg="#3EB650", fg="white", bd=0,
text="MANAGE VEHICLE",
               font=("times new roman", 13, "bold"), command=lambda: self.macy_fun())
    self.b4 = Button(self.fr, height=5, width=25, bg="#E56B1F", fg="white", bd=0,
text="HISTORY",
               font=("times new roman", 13, "bold"), command=lambda: self.hist fun())
    self.b5 = Button(self.fr, height=5, width=25, bg="#FCC133", fg="white", bd=0,
text="PAYMENT",
               font=("times new roman", 13, "bold"), command=lambda:
self.payment fun())
    self.b1.place(x=0, y=5)
    self.b2.place(x=0, y=120)
    self.b3.place(x=0, y=230)
    self.b4.place(x=0, y=340)
    self.b5.place(x=0, y=450)
    self.fr = Frame(self.root, bg="black")
    self.fr.place(x=270, y=120, width=980, height=550)
    self.bg = ImageTk.PhotoImage(file="E:/GUI USING TKINTER/image/Parking-
Management-System1.jpg")
    self.bg_image = Label(self.fr, image=self.bg).place(x=0, y=0, relheight=1, relwidth=1)
  def home_fun(self):
    connection = pymysql.connect(host=cr.host, user=cr.user, password=cr.password,
database=cr.database)
    cur = connection.cursor()
    cur.execute("select count(*) from managehistory;")
    global t1
    global slot
    slot=[]
    for i in cur:
      t1=i
    fr1 = Frame(self.root)
    fr1.place(x=270, y=120, width=980, height=550)
    b1 = Button(fr1, text="1", bg="green", height=7,command=lambda: self.myclick1(),
width=31
    b1.place(x=0, y=5)
    b2 = Button(fr1, text="2", padx=40, pady=20, bg="green", height=5, width=20)
    b2.place(x=0, y=120)
    b3 = Button(fr1, text="3", padx=40, pady=20, height=5, width=20, bg="green")
    b3.place(x=0, y=230)
```

```
b4 = Button(fr1, text="4", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2")
    b4.place(x=0, y=340)
    b5 = Button(fr1, text="5", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2")
    b5.place(x=0, y=450)
    b6 = Button(fr1, text="6", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2")
    b6.place(
      x=250, y=5
    b7 = Button(fr1, text="7", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2")
    b7.place(
      x=250, y=120
    b8 = Button(fr1, text="8", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2")
    b8.place(
      x=250, y=230
    b9 = Button(fr1, text="9", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2")
    b9.place(
      x=250, y=340
    b10 = Button(fr1, text="10", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2")
    b10.place(
      x=250, y=450
    b11 = Button(fr1, text="11", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2")
    b11.place(
       x=500, y=5
    b12 = Button(fr1, text="12", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2")
    b12.place(
      x=500, y=120
    b13 = Button(fr1, text="13", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2")
    b13.place(
      x=500, y=230
    b14 = Button(fr1, text="14", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2")
    b14.place(
      x=500, y=340
    b15 = Button(fr1, text="15", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2").place(
       x=500, y=450
    b16 = Button(fr1, text="16", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2").place(
      x=750, y=5
```

```
b17 = Button(fr1, text="17", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2").place(
       x=750, y=120)
    b18= Button(fr1, text="18", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2").place(
       x=750, y=230
    b19 = Button(fr1, text="19", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2").place(
       x=750, y=340
    b20 = Button(fr1, text="20", padx=40, pady=20, command=lambda: self.myclick1(),
height=5, width=20, bg="green2").place(
       x=750, y=450
    ba = [b1,b2,b3,b4,b5,b6,b7,b8,b9,b10,b11,b12,b13,b14,b15,b16,b17,b18,b19,b20]
    for i in range(t1[0]):
       ba[i].config(bg="red")
       ba[i].config(command=lambda: self.myclick0())
  def vecy_fun(self):
    fr1 = Frame(self.root)
    fr1.place(x=270, y=120, width=980, height=550)
    fr2 = Frame(fr1, bg="white")
    fr2.place(x=100, y=0, width=500, height=550)
    global fname_txt
    global lname txt
    global email_txt
    global questions
    global XYZ
    title1 = Label(fr2, text="ADD VEHICLE", font=("times new roman", 25, "bold"),
bg="white").place(x=20, y=10)
    f name = Label(fr2, text="First name", font=("helvetica", 15, "bold"),
bg="white").place(x=20, y=100)
    l_name = Label(fr2, text="Registration No", font=("helvetica", 15, "bold"),
bg="white").place(x=240, y=100)
    fname_txt = Entry(fr2, font=("arial"))
    fname_txt.place(x=20, y=130, width=200)
    lname txt = Entry(fr2, font=("arial"))
    lname txt.place(x=240, y=130, width=200)
    email = Label(fr2, text="Email", font=("helvetica", 15, "bold"),
bg="white").place(x=20, y=180)
    email_txt = Entry(fr2, font=("arial"))
    email_txt.place(x=20, y=210, width=420)
```

```
sec_question = Label(fr2, text="VEHICLE TYPE", font=("helvetica", 15, "bold"),
bg="white").place(x=20, y=260)
     XY1= Label(fr2, text="BLOCK_NUMBER", font=("helvetica", 15, "bold"),
bg="white").place(x=20, y=320)
     XYZ = Entry(fr2, font=("arial"))
     XYZ.place(x=20, y=350, width=420)
     questions = ttk.Combobox(fr2, font=("helvetica", 13), state='readonly',
justify=CENTER)
     questions['values'] = ("Select", "2 WHEELER", "4 WHEELER")
     questions.place(x=120, y=300, width=200)
     questions.current(0)
     self.terms = IntVar()
     terms and con = Checkbutton(fr2, text="I Agree The Terms & Conditions",
variable=self.terms, onvalue=1,
                     offvalue=0, bg="white", font=("times new roman", 12)).place(x=20,
y = 380)
     self.signup = Button(fr2, text="ADD VEHICLE", font=("times new roman", 18,
"bold"), bd=0, cursor="hand2",
                 bg="green2", fg="white", command=self.login_func)
     self.signup.place(x=50, y=430, width=250)
  def login_func(self):
     if fname_txt.get() == "" or lname_txt.get() == "" or email_txt.get() == "" or
questions.get() == "Select":
       messagebox.showerror("Error!", "Sorry!, All fields are required", parent=self.root)
     elif self.terms.get() == 0:
       messagebox.showerror("Error!", "Please Agree with our Terms & Conditions",
parent=self.root)
     else:
       connection = pymysql.connect(host=cr.host, user=cr.user, password=cr.password,
database=cr.database)
       cur = connection.cursor()
       cur.execute("select email from student_register where email=%s", email_txt.get())
       row = cur.fetchone()
       # Check if th entered email id is already exists or not.
       if row != None:
         messagebox.showinfo("", "You are eligible to add vehicle", parent=self.root)
         sql = "insert into managehistory values(%s,%s,%s,%s,%s,%s);"
         sql1 = [fname_txt.get(), lname_txt.get(), email_txt.get(),
questions.get(),XYZ.get(),200]
         cur.execute(sql, sql1)
         connection.commit()
         connection.close()
```

```
messagebox.showinfo("Congratulations!", "Vehicle added Successful",
parent=self.root)
        self.reset_fields()
  def macy_fun(self):
    labelFrame = Frame(self.root, bg='dark slate grey')
    labelFrame.place(x=270, y=120, height=550, width=980)
    y = 0.25
    Label(labelFrame, text="%-40s%-50s%-40s%-30s%-40s%-40s" % (
    'Name', 'Registration No', 'E-mail', 'Gender', 'Block No', 'Fare Price'), bg='dark slate
grey',
       fg='white').place(relx=0.07, rely=0.1)
    Label(labelFrame,
       text="-----
   bg='dark slate grey', fg='white').place(relx=0.05, rely=0.2)
    connection = pymysql.connect(host=cr.host, user=cr.user, password=cr.password,
database=cr.database)
    cur = connection.cursor()
    sql = "select * from managehistory;"
    cur.execute(sql)
    connection.commit()
    for i in cur:
      Label(labelFrame, text="%-40s%-50s%-40s%-30s%-40s%-40s" % (i[0], i[1], i[2],
i[3], i[4], i[5]),
           bg='dark slate grey', fg='white').place(relx=0.07, rely=y)
      y += 0.1
    return
  def hist_fun(self):
    return
  def myclick0(self):
    messagebox.showinfo("","Slot is Occupied")
  def payment_fun():
    return
  def myclick1(self):
    messagebox.showinfo("","slot is vacant")
if __name__ == "__main__":
  root = Tk()
  obj = home(root)
  root.mainloop()
```

Signup page code:

```
from PIL import Image, ImageTk
from tkinter import ttk, messagebox
import pymysql, os
import credentials as cr
from HOME_PAGE_PK import *
class SignUp:
  def _init__(self, root):
    self.window = root
    self.window.title("Sign Up")
    self.window.geometry("1280x800+0+0")
    self.window.config(bg = "white")
    self.bg_img = ImageTk.PhotoImage(file="E:/GUI USING
TKINTER/image/website_keyvisual_parking.jpg")
    background =
Label(self.window,image=self.bg_img).place(x=0,y=0,relwidth=1,relheight=1)
    frame = Frame(self.window, bg="white")
    frame.place(x=350,y=100,width=500,height=550)
    title1 = Label(frame, text="Sign Up", font=("times new
roman",25,"bold"),bg="white").place(x=20, y=10)
    title2 = Label(frame, text="Join with us", font=("times new roman",13),bg="white",
fg="gray").place(x=20, y=50)
    f_name = Label(frame, text="First name",
font=("helvetica",15,"bold"),bg="white").place(x=20, y=100)
    l_name = Label(frame, text="Last name",
font=("helvetica",15,"bold"),bg="white").place(x=240, y=100)
    self.fname_txt = Entry(frame,font=("arial"))
    self.fname_txt.place(x=20, y=130, width=200)
    self.lname txt = Entry(frame,font=("arial"))
    self.lname_txt.place(x=240, y=130, width=200)
    email = Label(frame, text="Email",
font=("helvetica",15,"bold"),bg="white").place(x=20, y=180)
    self.email_txt = Entry(frame,font=("arial"))
    self.email_txt.place(x=20, y=210, width=420)
```

from tkinter import *

```
sec_question = Label(frame, text="Security questions",
font=("helvetica",15,"bold"),bg="white").place(x=20, y=260)
     answer = Label(frame, text="Answer",
font=("helvetica",15,"bold"),bg="white").place(x=240, y=260)
     self.questions =
ttk.Combobox(frame,font=("helvetica",13),state='readonly',justify=CENTER)
     self.questions['values'] = ("Select", "What's your pet name?", "Your first teacher
name", "Your birthplace", "Your favorite movie")
    self.questions.place(x=20,y=290,width=200)
    self.questions.current(0)
    self.answer_txt = Entry(frame,font=("arial"))
     self.answer_txt.place(x=240, y=290, width=200)
     password = Label(frame, text="New password",
font=("helvetica",15,"bold"),bg="white").place(x=20, y=340)
     self.password txt = Entry(frame,font=("arial"))
     self.password_txt.place(x=20, y=370, width=420)
    self.terms = IntVar()
    terms_and_con = Checkbutton(frame,text="I Agree The Terms &
Conditions", variable=self.terms, on value=1, offvalue=0, bg="white", font=("times new
roman",12)).place(x=20,y=420)
    self.signup = Button(frame,text="Sign Up",command=self.signup_func,font=("times
new roman",18,
"bold"),bd=0,cursor="hand2",bg="green2",fg="white").place(x=10,y=470,width=250)
     self.signup = Button(frame,text="Back to main page",font=("times new roman",18,
"bold"),bd=0,cursor="hand2",bg="green2",fg="white").place(x=240,y=470,width=250)
  def signup_func(self):
    if self.fname_txt.get()=="" or self.lname_txt.get()=="" or self.email_txt.get()=="" or
self.questions.get()=="Select" or self.answer_txt.get()=="" or self.password_txt.get() == "":
       messagebox.showerror("Error!", "Sorry!, All fields are required", parent=self.window)
    elif self.terms.get() == 0:
       messagebox.showerror("Error!", "Please Agree with our Terms &
Conditions",parent=self.window)
    else:
       try:
         connection = pymysql.connect(host=cr.host, user=cr.user, password=cr.password,
database=cr.database)
         cur = connection.cursor()
         cur.execute("select * from student_register where email=%s",self.email_txt.get())
         row=cur.fetchone()
         # Check if th entered email id is already exists or not.
```

```
if row!=None:
            messagebox.showerror("Error!", "The email id is already exists, please try again
with another email id",parent=self.window)
         else:
            cur.execute("insert into student_register
(f_name,l_name,email,question,answer,password) values(%s,%s,%s,%s,%s,%s,%s)",
                         self.fname_txt.get(),
                         self.lname_txt.get(),
                         self.email txt.get(),
                         self.questions.get(),
                         self.answer_txt.get(),
                         self.password_txt.get()
            connection.commit()
            connection.close()
            messagebox.showinfo("Congratulations!","Register
Successful",parent=self.window)
            self.reset fields()
       except Exception as es:
         messagebox.showerror("Error!",f"Error due to {es}",parent=self.window)
  def reset_fields(self):
    self.fname_txt.delete(0, END)
     self.lname txt.delete(0, END)
    self.email_txt.delete(0, END)
    self.questions.current(0)
    self.answer txt.delete(0, END)
    self.password_txt.delete(0, END)
if __name_ == "__main__":
  root = Tk()
  obj = SignUp(root)
  root.mainloop()
```

Conclusion

This study was conducted by the researchers to develop and implement a Vehicle Parking Management System using Python. The developed system was presented to the target users and respondents for assessment. The result of the assessment showed that the developed system is an effective

tool to increase the efficiency and services offered in vehicle parking areas. The developed system can indeed provide efficient and convenient parking services to the customers.