

FINAL_PROJECTS\Program Files\index.py

```
1 import subprocess
2 import smtplib
3 import os
4 import sys
5
6 def install(package):
7     subprocess.check_call([sys.executable, "-m", "pip", "install", package])
8
9 required_packages = ["customtkinter",
10                      "matplotlib",
11                      "pillow",
12                      "pymysql",
13                      "colorama",
14                      "tkcalendar"
15                     ]
16
17 for package in required_packages:
18     try:
19         __import__(package)
20         print(f"{package} Successfully installed.")
21     except ImportError:
22         install(package)
23
24 # Created Modules
25 import Ticket_Code_Gen as TCG
26 from Usable_screen import ScreenGeometry as SG
27 from flights import major_airports
28 import Global_Config as GC
29 from Crypter import crypt
30
31 # Global Modules
32
33 from customtkinter import *
34 import pymysql
35 from tkcalendar import Calendar
36 import tkinter as tk
37 from pathlib import Path
38 from tkcalendar import Calendar
39 from datetime import datetime
40 from tkinter import filedialog
41
42 m_r_width, m_r_height = SG().GetUsableScreenSize()[0], SG().GetUsableScreenSize()[1]
43
44 root = CTk()
45 root.title("http://www.HADAirlineManagementSystem.com/")
46 set_appearance_mode("Dark")
47 GC.centreScreen(root,root, m_r_width, m_r_height)
48 root.state("zoomed")
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49 root.minsize(m_r_width, m_r_height)
50 root.geometry(f"{m_r_width}x{m_r_height}")
51
52 con = pymysql.connect(
53     host = "localhost",
54     user = "root",
55     passwd = "*password*11",
56         )
57
58 cur = con.cursor()
59 #-----GLOBAL VARIABLES -----
60 _isSignedIn = False
61 is_flight_details_obtained = False
62 User = "" #vs_hari_dhejus
63 isAdmin = False ##########
64 prev_page = 0
65 glb_clr_1 = "blue"
66 glb_clr_2 = "green"
67 BASE_DIR = Path(__file__).resolve().parent.parent
68 glb_clr_3 = "yellow"
69 destroy_after = None
70
71 global PG_Get_Flight_Details
72
73 def DB_INIT_():
74     try :
75         cur.execute("CREATE DATABASE IF NOT EXISTS `airwaysms2_0` /*!40100 DEFAULT CHARACTER
SET utf8mb4 COLLATE utf8mb4_0900_ai_ci */ /*!80016 DEFAULT ENCRYPTION='N' */;")
76
77         cur.execute("""CREATE TABLE IF NOT EXISTS `user_details` (
78             `UID` int NOT NULL AUTO_INCREMENT,
79             `UF_name` varchar(100) DEFAULT NULL,
80             `UL_name` varchar(100) DEFAULT NULL,
81             `U_name` varchar(100) NOT NULL,
82             `U_Gmail` varchar(100) NOT NULL,
83             `U_phno` varchar(12) DEFAULT NULL,
84             `U_password` varchar(100) NOT NULL,
85             `U_dob` date DEFAULT NULL,
86             `U_AGE` int DEFAULT NULL,
87             `U_gender` varchar(5) DEFAULT NULL,
88             `U_isActive` tinyint DEFAULT '1',
89             PRIMARY KEY (`UID`),
90             UNIQUE KEY `U_name_UNIQUE` (`U_name`)
91         ) ENGINE=InnoDB AUTO_INCREMENT=7 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci;""")
92
93         cur.execute("""CREATE TABLE `flights` (
94             `F_ID` int NOT NULL AUTO_INCREMENT,
95             `F_Departure` varchar(100) DEFAULT NULL,
96             `F_Arrival` varchar(100) DEFAULT NULL,

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97             `F_Airline` varchar(45) NOT NULL,
98             `F_price` int DEFAULT NULL,
99             PRIMARY KEY (`F_ID`)
100            ) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT CHARSET=utf8mb4
101            COLLATE=utf8mb4_0900_ai_ci;
102            """
103
104             cur.execute("""CREATE TABLE IF NOT EXISTS `booking` (
105                     `BID` varchar(100) NOT NULL,
106                     `BU_NAME` varchar(100) DEFAULT NULL,
107                     `B_FLIGHT` int DEFAULT NULL,
108                     `IS_ACTIVE` int DEFAULT NULL,
109                     PRIMARY KEY (`BID`),
110                     KEY `B_FORIEGN_KEY_idx` (`B_FLIGHT`),
111                     CONSTRAINT `B_FORIEGN_KEY` FOREIGN KEY (`B_FLIGHT`) REFERENCES
112                     `flights` (`F_ID`)
113                     ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4
114            COLLATE=utf8mb4_0900_ai_ci;""")
115
116             cur.execute("""CREATE TABLE `payment` (
117                     `PID` int NOT NULL AUTO_INCREMENT,
118                     `P_UID` int DEFAULT NULL,
119                     `AMOUNT` int DEFAULT NULL,
120                     `P_STATUS` int DEFAULT NULL,
121                     `P_ACC_NUM` int DEFAULT NULL,
122                     `PUPI_NUM` int DEFAULT NULL,
123                     `P_METHOD` varchar(45) DEFAULT NULL,
124                     PRIMARY KEY (`PID`),
125                     KEY `P_UID_idx` (`P_UID`),
126                     CONSTRAINT `P_UID` FOREIGN KEY (`P_UID`) REFERENCES `user_details`(
127                     `UID`)
128                     ) ENGINE=InnoDB AUTO_INCREMENT=19 DEFAULT CHARSET=utf8mb4
129            COLLATE=utf8mb4_0900_ai_ci;
130            """
131
132             except Exception as e:
133                 pass
134
135             finally :
136                 print("Sucessfully Initialized Database.")
137                 cur.execute("USE airwaysms2_0 ;")
138 DB_INIT_()
139 #----- GLOBAL FUNCTIONS -----
140
141 def createRadioButton (_frame ,_text : str , _value, _variable, _command, _xpos : int, _ypos : int):
142     tmpRdBtn = CTkRadioButton(_frame, text = _text , value = _value, variable =
143     _variable, width = 75, command = lambda :(_command()) )
144     tmpRdBtn.place(x =_xpos, y = _ypos)
145     return tmpRdBtn

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141 def errorLabeling(_Master, _text : str, _font = ("Bradley Hand ITC", 18, "italic", "bold"),
142     _textcolor = "red", _x = 10, _y = 10, _cooldowntime = 3000):
143     error_label = CTkLabel(_Master, text = _text, font = _font, text_color = _textcolor)
144     error_label.place(x = _x, y = _y)
145     def refresh():
146         error_label.destroy()
147         error_label.after(_cooldowntime, refresh)
148     #-----
149 Main_fame = CTkFrame(root, width = m_r_width, height= m_r_height-24, border_width=2,
150 border_color= "#007acc", fg_color="transparent")
151 Main_fame.place(x = 0, y = 0)
152
153 global booking
154 def booking():
155     Ticket_Code = TCG.Gen_Code()
156     cur.execute("SELECT * FROM flights WHERE F_ID = '%s'", Flight_ID)
157     cur.execute("SELECT COUNT(*) FROM booking")
158     F_id = cur.fetchone()[0]
159     global User
160     cur.execute("INSERT INTO booking (BID, BU_NAME, B_FLIGHT) VALUES (%s, %s, %s)",
161     (Ticket_Code, User, Flight_ID))
162     con.commit()
163     file_path = filedialog.asksaveasfilename(defaultextension = ".txt",
164                                             filetypes=[("Text Files", "*.txt"),
165                                                       ("All Files", "*.*")]
166                                                       ],
167                                                       initialfile= "SELECT WHERE TO SAVE THE
168 TICKET.txt")
169     temp_qry = f"SELECT F_Departure, F_Arrival, F_Airline, F_price FROM flights WHERE
170 flights.F_ID = %s ;"
171     cur.execute(temp_qry, (Flight_ID,))
172     result = cur.fetchone()
173     if file_path:
174         with open(file_path, "w")as f:
175             f.write(f"Ticket Id : {Ticket_Code}, User : {User}, Departure : {result[0]},\n
176 Arrival : {result[1]}\n
177 Airline : {result[2]}, Price : {result[3]}")
178     errorLabeling(form_frm, "Sucessfully Booked", _textcolor = "green", _x = 120, _y = 170)
179
180 global PG_Payment
181 def PG_Payment():
182     root.title ("http://www.HADAirlineManagementSystem.com/Payment")
183     for i in Main_fame.winfo_children():
184         i.destroy()
185
186     form_frm_width = 400
187     form_frm_height = 210
188     global form_frm
189     form_frm = CTkFrame(Main_fame, width=form_frm_width, height=form_frm_height)

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186     form_frm.place(x = (m_r_width/(2))-(form_frm_width/2), y = (m_r_height/(2))- (form_frm_height/2)))
187
188     def go_back():
189         PG_search_flight_()
190
191     dummy_back_btn = CTkButton(Main_fame, text="Back", command = go_back)
192     dummy_back_btn.place(x =10, y = 10)
193
194     Payment_Method_label = CTkLabel(form_frm, text= "Select Payment Method")
195     Payment_Method_label.place(x = 25, y = 10)
196
197     CBF_width = 290
198     CBF_height = 28
199     Centre_btn_frame = CTkFrame(form_frm, height=CBF_height, width= CBF_width, fg_color= "transparent")
200     Centre_btn_frame.place(x = (form_frm_width/(2))-(CBF_width/2),
201                             y = (form_frm_height/(2)-(CBF_height/2)) )
202
203     def onUPI_btn_click():
204         root.title ("http://www.HADAirlineManagementSystem.com/Payment/UPI")
205         for i in form_frm.winfo_children():
206             i.destroy()
207
208     def go_back():
209         PG_Payment()
210
211     dummy_back_btn = CTkButton(Main_fame, text="Back", command = go_back)
212     dummy_back_btn.place(x =10, y = 10)
213     Temp_Entry_Width = 350
214
215     UPI_Method_label = CTkLabel(form_frm, text= "UPI -")
216     UPI_Method_label.place(x = 25, y = 10)
217
218     UPI_Number_Entry = CTkEntry(form_frm, placeholder_text= "UPI Number",width=Temp_Entry_Width)
219     UPI_Number_Entry.place(x =25, y = 50)
220
221     cur.execute(f"SELECT F_Price FROM flights WHERE F_ID = '{Flight_ID}'")
222     Amount = str(cur.fetchone()[0])
223
224     Amount_LBL = CTkLabel(form_frm,text= f"Amount : {Amount}",width= Temp_Entry_Width)
225     Amount_LBL.place(x =25, y = 90)
226
227     def _onUPI_pay_btn_click():
228         UPI_Number = UPI_Number_Entry.get()
229         cur.execute(f"SELECT F_Price FROM flights WHERE F_ID = '{Flight_ID}'")
230         Amount = str(cur.fetchone()[0])
231
232         if UPI_Number == "" or Amount == "":
233             errorLabeling(form_frm, "Feilds Can Not Be Empty", _x = 90, _y = 170)

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234
235     elif UPI_Number.isdigit() == False or Amount.isdigit() == False:
236         is_flight_details_obtained
237     else:
238         Amount = int(Amount)
239         UPI_Number = int(UPI_Number)
240         tempqry = "SELECT COUNT(*) FROM payment"
241         cur.execute(tempqry)
242         p_id = int(cur.fetchone()[0])+1
243         global User
244         tempqry = f"SELECT UID FROM user_details WHERE U_name = '{User}'"
245         cur.execute(tempqry)
246         Uid = int(cur.fetchone()[0])
247         tempqry = "INSERT INTO payment (PID, AMOUNT, P_STATUS, P_UPI_NUM, P_METHOD)
VALUES (%s, %s, %s, %s, %s)"
248         cur.execute(tempqry, (p_id,Amount,400,UPI_Number, "UPI"))
249         errorLabeling(form_frm, "Payment Sucessful", _textcolor = "green", _x = 110,
_y = 170)
250         def delayed_lbl():
251             errorLabeling(form_frm, "Booking Ticket ...", _textcolor = "green", _x =
1100, _y = 170)
252             def delayed():
253                 booking()
254                 PG_Get_Flight_Details()
255                 root.after(3000, delayed)
256                 con.commit()
257                 root.after(3000, delayed_lbl)
258
259                 Pay_btn = CTkButton(form_frm, width= Temp_Entry_Width, text = "Pay", corner_radius=
100, command= _onUPI_pay_btn_click)
260                 Pay_btn.place(x = 25, y = 130)
261
262                 UPI_btn = CTkButton(Centre_btn_frame, text = "UPI", command= onUPI_btn_click)
263                 UPI_btn.place(x = 0, y = 0)
264
265         def on_NET_btn_click():
266             root.title ("http://www.HADAirlineManagementSystem.com/Payment/UPI")
267             for i in form_frm.winfo_children():
268                 i.destroy()
269
270         def go_back():
271             PG_Payment()
272
273             dummy_back_btn = CTkButton(Main_fame, text="Back", command = go_back)
274             dummy_back_btn.place(x =10, y = 10)
275
276             Temp_Entry_Width = 350
277
278             NETB_Method_label = CTkLabel(form_frm, text= "NET BANKING -")
279             NETB_Method_label.place(x = 25, y = 10)
280

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281     NETB_Number_Entry = CTkEntry(form_frm, placeholder_text= "Account Number",width=
Temp_Entry_Width)
282         NETB_Number_Entry.place(x =25, y = 50)
283
284     cur.execute(f"SELECT F_Price FROM flights WHERE F_ID = '{Flight_ID}'")
285     Amount = str(cur.fetchone()[0])
286
287     Amount_LBL = CTkLabel(form_frm,text= f"Amount : {Amount}",width= Temp_Entry_Width)
288     Amount_LBL.place(x =25, y = 90)
289
290     def _on_NETB_pay_btn_click():
291         ACC_Number = NETB_Number_Entry.get()
292         cur.execute(f"SELECT F_Price FROM flights WHERE F_ID = '{Flight_ID}'")
293         Amount = str(cur.fetchone()[0])
294
295         if ACC_Number == "" or Amount == "":
296             errorLabeling(form_frm, "Feilds Can Not Be Empty", _x = 90, _y = 170)
297
298         elif ACC_Number.isdigit() == False or Amount.isdigit() == False:
299             is_flight_details_obtained
300         else:
301             Amount = int(Amount)
302             ACC_Number = int(ACC_Number)
303             tempqry = "SELECT COUNT(*) FROM payment"
304             cur.execute(tempqry)
305             p_id = int(cur.fetchone()[0])+1
306             global User
307             tempqry = f"SELECT UID FROM user_details WHERE U_name = '{User}'"
308             cur.execute(tempqry)
309             Uid = int(cur.fetchone()[0])
310             tempqry = "INSERT INTO payment (PID, AMOUNT, P_STATUS, P_UPID_NUM, P_METHOD)
VALUES (%s, %s, %s, %s, %s)"
311             cur.execute(tempqry, (p_id,Amount,400,ACC_Number, "NET"))
312             con.commit()
313             errorLabeling(form_frm, "Payment Sucessful", _textcolor = "green", _x = 110,
_y = 170)
314             def delayed_lbl():
315                 errorLabeling(form_frm, "Booking Ticket ...", _textcolor = "green", _x =
1100, _y = 170)
316                 def delayed():
317                     booking()
318                     PG_Get_Flight_Details()
319                     root.after(3000, delayed)
320                     con.commit()
321                     root.after(3000, delayed_lbl)
322
323             Pay_btn = CTkButton(form_frm, width= Temp_Entry_Width, text = "Pay", corner_radius=
100, command= _on_NETB_pay_btn_click)
324             Pay_btn.place(x = 25, y = 130)
325

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326     NetBanking_btn = CTkButton(Centre_btn_frame, text = "Net Banking", command=
327     on_NET_btn_click)
328     NetBanking_btn.place(x = 150, y = 0)
329     Main_frm.Authentication_Btns()
330
330 #=> -----Sign Up -----
331 global PG_Sign_Up
332 def PG_Sign_Up() :
333     root.title ("http://www.HADAirlineManagementSystem.com/SingUp")
334     for i in Main_fame.winfo_children():
335         i.destroy()
336
337     form_frm_width = 400
338     form_frm_height = 600
339     form_frm = CTkFrame(Main_fame, width=form_frm_width, height=form_frm_height)
340     form_frm.place(x = (m_r_width/(2))-(form_frm_width/2),
341                     y = (m_r_height/(2)-(form_frm_height/2))
342                     )
343
344     def go_back():
345         for i in Main_fame.winfo_children():
346             i.destroy()
347         PG_Sign_in()
348
349     def NullCheck():
350         global DOB_selected_date, cal
351         F_name = F_name_Entry.get()
352         L_name = L_name_Entry.get()
353         U_name = U_name_Entry.get()
354         _Gender = Gender.get()
355         if "cal" in globals():
356             dob = cal.get_date()
357             dob_dt = datetime.strptime(dob, "%Y-%m-%d")
358             today = datetime.today()
359             Age = today.year - dob_dt.year
360             if (today.month, today.day) > (dob_dt.month, dob_dt.day):
361                 Age +=1
362             else :
363                 dob = ""
364             Gmail = gmail_Entry.get()
365             _pass = crypt(pass_Entry.get()).encrypt()
366             _re_pass = crypt(re_pass_Entry.get()).encrypt()
367             phononenumber = phonnumber_Entry.get()
368             tmp_qry =f"SELECT U_name FROM user_details WHERE U_name= '{U_name}'"
369             cur.execute(tmp_qry)
370             row = cur.fetchone()
371             if F_name == "" or L_name == "" or U_name == "" or dob == "" or Gmail == "" or _pass
372 == "" or _re_pass == "" or phononenumber == "" or _Gender == "other" :
373                 errorLabeling(form_frm, "Feilds Cannot Be Null", _x = 110, _y = 410)

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374     if _pass != _re_pass:
375         errorLabeling(form_frm, "Passwords Don't Match", _x = 110, _y = 410)
376
377     elif row :
378         errorLabeling(form_frm, "Username Already Exist", _x = 110, _y = 410)
379
380     else:
381         cur.execute("SELECT Count(*) FROM user_details")
382         ans = cur.fetchone()
383
384         new_uid = ans[0] + 1
385
386         tmp_qry = """
387             INSERT INTO user_details (UID, UF_name, UL_name, U_name, U_Gmail, U_phno,
388             U_password, U_dob, U_gender, U_AGE)
389             VALUES (%s, %s, %s, %s, %s, %s, %s, %s, %s, %s)
390             """
391
392         cur.execute(tmp_qry, (new_uid, F_name, L_name, U_name, Gmail, phonenumbers, _pass,
393         dob, _Gender, Age))
394         con.commit()
395
396         cur.execute("SELECT Count(*) FROM user_details")
397         ans2 = cur.fetchone()
398
399         con.commit()
400         if ans2 > ans :
401             errorLabeling(form_frm, "Successfully Added", _textcolor = "green", _x = 110,
402             _y = 410)
403             def _fun():
404                 global _isSignedIn, User
405                 _isSignedIn = True
406                 User = U_name
407                 PG_Get_Flight_Details()
408                 errorLabeling(form_frm, "Successfully Added", _textcolor = "green", _x = 110,
409                 _y = 410)
410                 fun_lbl = CTkLabel(form_frm)
411                 fun_lbl.after(4000, _fun)
412             else:
413                 errorLabeling(form_frm, "Error Occurred While Inserting Try Restarting", _x =
414                 5, _y = 410)
415
416             dummy_back_btn = CTkButton(Main_fame,text="Back", command = go_back)
417             dummy_back_btn.place(x = 10, y = 10)
418
419             F_name_Entry = CTkEntry(form_frm, width = 350, placeholder_text="First Name")
420             F_name_Entry.place(x = 25, y = 10)
421
422             L_name_Entry = CTkEntry(form_frm, width = 350, placeholder_text="Last Name")
423             L_name_Entry.place(x = 25, y = 50)
424
425             def Func_radio_btn():
426

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420     global _Gender
421     _Gender = Gender.get()
422     global Gender
423     Gender = StringVar(value = "other")
424
425     rd_btn_y_pos = 90
426
427     male_radio_btn = createRadioButton(form_frm, "Male", "M", Gender, Func_radio_btn, 25,
428                                         rd_btn_y_pos)
429
430     female_radio_btn = createRadioButton(form_frm, "Female", "F", Gender, Func_radio_btn,
431                                         25+130, rd_btn_y_pos)
432
433     other_radio_btn = createRadioButton(form_frm, "Other", "O", Gender, Func_radio_btn, 25+130 +
434                                         130, rd_btn_y_pos)
435     global cal
436
437     def DOB_open_date_picker():
438
439         top = CTkToplevel(form_frm)
440         top.title("Select a Date")
441         top.attributes("-topmost", True)
442         global cal
443         cal = Calendar(top, selectmode='day', date_pattern = "yyyy-mm-dd")
444         cal.pack(pady=10)
445         def select_date():
446             global DOB_selected_date
447             DOB_selected_date = cal.get_date()
448             DOB_Date_label.configure(text=f"Selected Date : {DOB_selected_date}")
449             top.destroy()
450
451             select_button = CTkButton(top, text="Select Date", command=select_date)
452             select_button.pack(pady=10)
453
454             DOB_Date_Btn = CTkButton(form_frm, text="Date Of Birth", command=DOB_open_date_picker,
455                                     corner_radius=100)
456             DOB_Date_Btn.place(x=25, y =rd_btn_y_pos+40)
457
458             DOB_Date_label = CTkLabel(form_frm, text= "Select Date")
459             DOB_Date_label.place(x = 25+170, y = 90+40)
460
461             U_name_Entry = CTkEntry(form_frm, width = 350, placeholder_text="Username")
462             U_name_Entry.place(x = 25, y = 130+40)
463
464
465             def Show_pass():
466                 if pass_Entry.cget('show') == '*':

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467         pass_Entry.configure(show=' ')
468         show_btn.configure(text=" Hide ")
469     else:
470         pass_Entry.configure(show='*')
471         show_btn.configure(text="Show")
472
473     def Re_Show_pass():
474         if re_pass_Entry.cget('show') == '*':
475             re_pass_Entry.configure(show=' ')
476             re_show_btn.configure(text=" Hide ")
477         else:
478             re_pass_Entry.configure(show='*')
479             re_show_btn.configure(text="Show")
480
481     pass_Entry = CTkEntry(form_frm, width = 350, placeholder_text="Password", show = "*")
482     show_btn = CTkButton(pass_Entry, width = 22, height=28,
483     text="Show",border_color="#565b5e",border_width=2, fg_color="transparent", command>Show_pass)
484     show_btn.place(x = 304, y=0)
484     pass_Entry.place(x = 25, y = 170+80)
485
486     re_pass_Entry = CTkEntry(form_frm, width = 350, placeholder_text="Re-Password", show =
487     "*")
487     re_show_btn = CTkButton(re_pass_Entry, width = 22, height=28,
488     text="Show",border_color="#565b5e",border_width=2, fg_color="transparent",
489     command=Re_Show_pass)
489     re_show_btn.place(x = 304, y=0)
490     re_pass_Entry.place(x = 25, y = 210+80)
491
491     phonnumber_Entry = CTkEntry(form_frm, 350, placeholder_text="Phone Number")
492     phonnumber_Entry.place(x = 25, y =250+80)
493
494     Create_acc_btn = CTkButton(form_frm, width = 350, text="Create Account",
495     corner_radius=100, command = NullCheck)
495     Create_acc_btn.place(x = 25, y = 290+80)
496
497     tempxpos = 100
498     tempypos = 410
499     Dnt_hv_acc_lbl = CTkLabel(form_frm, text="Already have an account ? ")
500     Dnt_hv_acc_lbl.place(x = tempxpos, y = tempypos)
501     Sign_up_lbl = CTkLabel(form_frm, text="Sign In", font = ("Arial" , 12, "italic",
501     "underline"))
502     Sign_up_lbl.place(x = tempxpos + 150, y = tempypos)
503 #=>3-----Sign In Page -----
504 global PG_Sign_in
505 def PG_Sign_in():
506     root.title ("http://www.HADAirlineManagementSystem.com/Sign_In")
507     for i in Main_fame.winfo_children():
508         i.destroy()
509
510     form_frm_width = 400
511     form_frm_height = 340

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```

512     form_frm = CTkFrame(Main_fame, width=form_frm_width, height=form_frm_height)
513     form_frm.place(x = (m_r_width/(2))-(form_frm_width/2),
514                     y = (m_r_height/(2)-(form_frm_height/2))
515                     )
516
517     def go_back():
518         global _isSignedIn
519         if _isSignedIn == True :
520             for i in Main_fame.winfo_children():
521                 i.destroy()
522             Main_frm.Authentication_Btns()
523             PG_search_flight_()
524         else :
525             for i in Main_fame.winfo_children():
526                 i.destroy()
527             Main_frm.Authentication_Btns()
528             PG_Get_Flight_Details()
529
530         dummy_back_btn = CTkButton(Main_fame,text="Back", command = go_back)
531         dummy_back_btn.place(x =10, y = 10)
532
533         login_lb = CTkLabel(form_frm, text = "LOGIN")
534         login_lb.place(x = 10, y = 10)
535
536     def Login_authentication(_username, _pass):
537         global _isSignedIn, User
538         _isSignedIn = True
539         _username= _username.get()
540         _pass = crypt(_pass.get()).encrypt()
541         if (_username == "" or _pass == "") :
542             errorLabeling(form_frm, "Feilds Cannot Be Empty", _x = 90, _y = 150)
543         else:
544             temp_qry = f"SELECT U_name, U_Gmail, U_password, U_isAdmin FROM user_details WHERE
U_name = '{_username}' or U_Gmail = '{_username}' and U_password = '{_pass}'"
545             cur.execute(temp_qry)
546             qry_result = cur.fetchone()
547
548             if qry_result == None :
549                 errorLabeling(form_frm, "Username Or Password Is Incorrect", _x = 50, _y =
150)
550
551             else:
552                 global User, isAdmin
553                 User = qry_result[0]
554                 _isSignedIn = True
555                 isAdmin = qry_result[-1]
556                 if is_flight_details_obtained == True :
557                     PG_Payment()
558                 else:
559                     PG_Get_Flight_Details()

```

```
560
561     user_Entry = CTkEntry(form_frm, width = 350, placeholder_text= "Username/Gmail")
562     user_Entry.place(x = 25, y = 40)
563
564     def Show_pass():
565
566         if pass_Entry.cget('show') == '*':
567             pass_Entry.configure(show='')
568             show_btn.configure(text=" Hide ")
569         else:
570             pass_Entry.configure(show='*')
571             show_btn.configure(text="Show")
572
573     pass_Entry = CTkEntry(form_frm, width = 350, placeholder_text="Password", show = "*")
574     show_btn = CTkButton(pass_Entry, width = 22, height=28,
text="Show",border_color="#565b5e",border_width=2, fg_color="transparent", command=Show_pass)
575     show_btn.place(x = 304, y=0)
576     pass_Entry.place(x = 25, y = 80)
577
578     Login_btn = CTkButton(form_frm, text= "LOGIN", width= 350, corner_radius=100,
command=lambda :(Login_authentication(user_Entry, pass_Entry)))
579     Login_btn.place(x = 25, y = 120)
580
581     No_of_hyphen = 41
582     line_lbl = CTkLabel(form_frm, text = f"{'-'*No_of_hyphen} OR {'-'*No_of_hyphen}")
583     line_lbl.place(x = 25, y = 170)
584
585     def loginWithGoogle():
586         temp_TL = CTkToplevel(root)
587         temp_TL.title("http://www.HADAirlineManagementSystem.com/Error?loginWithGoogle")
588         temp_TL.attributes("-topmost", True)
589         temp_TL.geometry("400x300")
590         errorLabeling(temp_TL, _text="")
591 We are Extremly Sorry for the Inconvenience:
592 We at HAD are currently working to
593 bring in that feature."",_textcolor = "#007acc", _cooldowntime = None)
594
595     Login_btn2 = CTkButton(form_frm, text= "LOGIN with Google", width= 350, corner_radius=100,
command=loginWithGoogle)
596     Login_btn2.place(x = 25, y = 220)
597
598     tempxpos = 100
599     tempypos = 270
600     Dnt_hv_acc_lbl = CTkLabel(form_frm, text="Don't have an account ? ")
601     Dnt_hv_acc_lbl.place(x = tempxpos, y = tempypos)
602     Sign_up_lbl = CTkLabel(form_frm, text="Sign Up", font = ("Arial" , 12, "italic",
"underline"))
603     Sign_up_lbl.place(x = tempxpos + 140, y = tempypos)
604
605
606     Sign_up_lbl.bind("<Button-1>", lambda event, : PG_Sign_Up())
```

```

607     Sign_up_lbl.bind("<Enter>", lambda event, lbl = Sign_up_lbl: lbl.configure(text_color =
608         "#007acc"))
609     Sign_up_lbl.bind("<Leave>", lambda event, lbl = Sign_up_lbl: lbl.configure(text_color =
610         "Light Gray"))
611 # =>-----Show Flights details -----
610 global PG_search_flight_
611 def PG_search_flight_():
612     prev_page = 2
613     root.title ("http://www.HADAirlineManagementSystem.com/Search_flights")
614     if div_frame.winfo_exists():
615         for i in div_frame.winfo_children():
616             i.destroy()
617     div_frame.destroy()
618
619     temp_frm_width = 900
620     temp_frm_height = 550
621     global flight_search_result_frm
622     flight_search_result_frm = CTkScrollableFrame (Main_fame, width=temp_frm_width, height =
temp_frm_height, scrollbar_button_color= None)
623     flight_search_result_frm.place(x = (m_r_width/(2))-(temp_frm_width/2),
624                                     y = (m_r_height/(2))-(temp_frm_height/2))
625
626
627     PG_Heading = CTkLabel(flight_search_result_frm, text = "AVAILABLE FLIGHTS")
628     PG_Heading.pack(padx = 25, pady = 10, anchor = "w")
629     def go_back():
630         for i in Main_fame.winfo_children():
631             i.destroy()
632         Main_frm_Authentication_Btns()
633         PG_Get_Flight_Details()
634
635         dummy_back_btn = CTkButton(Main_fame, text="Back", command = go_back)
636         dummy_back_btn.place(x =10, y = 10)
637
638         btns = []
639
640         global radio_val, dest_airport, origin_airport
641         temp_qry = "SELECT F_Departure, F_Arrival, F_Airline, F_price, F_ID FROM flights WHERE
F_Departure = '" + origin_airport+ "' AND F_Arrival = '" + dest_airport+ "';"
642         cur.execute(temp_qry)
643         result = cur.fetchall()
644         btn_data= {}
645         FLIGHT_ID_dict = {}
646         key = 1
647         for i in result :
648             btn_data[key] = f"{i[0]} ----- {i[1]} : {i[2]} : {i[3]}"
649             FLIGHT_ID_dict[key] = i[4]
650             key += 1
651
652         def on_btn_click(index):
653             global Flight_ID

```

```
654     Flight_ID = FLIGHT_ID_dict[index]
655     if _isSignedIn == True:
656         PG_Payment()
657     else :
658         PG_Sign_in()
659         pass
660     for id, label in btn_data.items() :
661
662         btn = CTkButton(flight_search_result_frm, text = label,bg_color="transparent", command
= lambda idx=id: on_btn_click(idx)).pack(pady = 10, padx = 10, anchor = "w")
663         btns.append(btn)
664     con.commit()
665     Main_frm.Authentication_Btns()
666
667 # =>1-----Get Flight details-----
668 ---
669 def PG_Get_Flight_Details():
670     global div_frame, _isSignedIn, User
671     for i in Main_fame.winfo_children():
672         i.destroy()
673
674     prev_page = 1
675     temp_frm_width = 500
676     temp_frm_height = 320
677     div_frame = CTkFrame(Main_fame,width=temp_frm_width, height = temp_frm_height)
678     div_frm_xpos = 75
679     din_frm_widget_width = 350
680     div_frame.place(x = (m_r_width/(2))-(temp_frm_width/2),
681                     y = (m_r_height/(2)-(temp_frm_height/2)))
682
683     def Func_radio_btn():
684         global radio_val
685         radio_val = book_a_flight_radio_val.get()
686         if radio_val == "ReturnRadio":
687             Dest_Date_Btn.configure(state = tk.NORMAL)
688         else:
689             Dest_Date_Btn.configure(state = tk.DISABLED)
690
691         global book_a_flight_radio_val
692         book_a_flight_radio_val = StringVar(value = "other")
693         rd_btn_y_pos = 20
694         return_radio_btn =
695         createRadioButton(div_frame,"Return","ReturnRadio",book_a_flight_radio_val,Fun
696         al,Func_radio_btn,div_frm_xpos, rd_btn_y_pos)
697
698         one_way_radio_btn = createRadioButton(div_frame,"One Way", "OnewayRadio",
699         book_a_flight_radio_val,Func_radio_btn, div_frm_xpos+130, rd_btn_y_pos)
699
700     def Combo_get_origin_val(origin_combo_value):
```

```
700     global origin_airport
701     origin_airport = origin_combo_value
702
703     departure_place = StringVar(value="dep_combo_other")
704     departure_place.set("Departure")
705
706     Origin_Airport = CTkComboBox(div_frame, width=din_frm_widget_width,
707                                 values=major_airports,
708                                 variable=departure_place, command=Combo_get_origin_val)
709     Origin_Airport.place(x=div_frm_xpos, y=rd_btn_y_pos+50)
710
711 def Combo_get_dest_val(dest_combo_value):
712     global dest_airport
713     dest_airport = dest_combo_value
714
715     global arrival_place
716     arrival_place = StringVar(value="des_combo_other")
717     arrival_place.set("Destination")
718     Dest_Airport = CTkComboBox(div_frame, width=din_frm_widget_width,
719                               values=major_airports, variable=arrival_place, command=
720     Combo_get_dest_val)
721     Dest_Airport.place(x=div_frm_xpos, y=rd_btn_y_pos+82)
722
723     arrival_place = arrival_place.get()
724
725 def Dept_open_date_picker():
726
727     top = CTkToplevel(root)
728     top.title("Select a Date")
729     top.attributes("-topmost", True)
730     cal = Calendar(top, selectmode='day', date_pattern="yyyy-mm-dd")
731     cal.pack(pady=10)
732     def select_date():
733         global Dept_selected_date
734         Dept_selected_date = cal.get_date()
735         Dept_date_label.configure(text=f"Selected Date : {Dept_selected_date}")
736         top.destroy()
737
738         select_button = CTkButton(top, text="Select Date", command=select_date)
739         select_button.pack(pady=10)
740
741     Dept_Date_Btn = CTkButton(div_frame, text="Departure Date", command=Dept_open_date_picker,
742                               corner_radius=100)
743     Dept_Date_Btn.place(x=div_frm_xpos, y=rd_btn_y_pos+114)
744
745     Dept_date_label = CTkLabel(div_frame, text="Select Date")
746     Dept_date_label.place(x=div_frm_xpos+170, y=rd_btn_y_pos+114)
747     def Dest_open_date_picker():
```

```
748     top = CTkToplevel(root)
749     top.title("Select a Date")
750     top.attributes("-topmost", True)
751     cal = Calendar(top, selectmode='day', date_pattern = "yyyy-mm-dd")
752     cal.pack(pady=10)
753     def select_date():
754         global Dest_selected_date
755         Dest_selected_date = cal.get_date()
756         Dest_date_label.configure(text=f"Selected Date : {Dest_selected_date}")
757         top.destroy()
758
759     select_button = CTkButton(top, text="Select Date", command=select_date)
760     select_button.pack(pady=10)
761
762
763     Dest_Date_Btn = CTkButton(div_frame, text="Arrival Date", command=Dest_open_date_picker,
764     corner_radius=100, state=tk.DISABLED)
765     Dest_Date_Btn.place(x=div_frm_xpos, y =rd_btn_y_pos+147)
766
767     Dest_date_label = CTkLabel(div_frame, text= "Select Date")
768     Dest_date_label.place(x = div_frm_xpos+170, y = rd_btn_y_pos+147)
769
770     def Null_Check():
771         error_name = ""
772         try :
773             global radio_val, dest_airport, origin_airport
774             radio_val
775             dest_airport
776             origin_airport
777             Dept_selected_date
778             if radio_val == "ReturnRadio" :
779                 Dest_selected_date
780
781                 if dest_airport not in globals() or origin_airport not in globals() or radio_val
782                 not in globals():
783                     pass
784
785                     except NameError :
786                         error_name = "NameError"
787                         error_label = CTkLabel(div_frame, text = "Fields Cannot Be Empty", font =
788                         ("Bradley Hand ITC" , 18, "italic", "bold"), text_color = "red")
789                         error_label.place(x = 140, y = 238)
790
791                         def refresh():
792                             error_label.destroy()
793                             error_label.after(3000, refresh)
794
795                         finally:
796                             if error_name != "NameError":
797                                 global is_flight_details_obtained
798                                 is_flight_details_obtained = True
799                                 PG_search_flight_()
```

```

796
797     Search_Flighths_btn = CTkButton(div_frm, text = "Search Flights", width =
798         din_frm_widget_width, corner_radius=75, command=lambda :(Null_Check()))
799     Search_Flighths_btn.place(x = div_frm_xpos, y =rd_btn_y_pos + 180)
800     con.commit()
801     Main_frm.Authentication_Btns()
802
# =>-----MAIN FRAME-----
803 global Main_frm.Authentication_Btns
804 def Main_frm.Authentication_Btns():
805     if _isSignedIn == True:
806         global User
807         User_Label = CTkLabel(Main_fame, text = f"{User}", text_color= "#007acc", font=
808             ("Bradley Hand ITC" , 18, "italic", "bold"), width = 20)
809         User_Label.place(x = m_r_width-200, y= 10)
810         User_Label.update_idletasks()
811         lbl_width = User_Label.winfo_width()
812         User_Label.place(x = (m_r_width/(1.2))-(lbl_width/2),y = 10)
813
814     def on_select(option):
815         global _isSignedIn, User , isAdmin
816
817         if option == "Cancel Flights":
818             Setting_btn.set("Settings")
819             tmp_root = CTkToplevel(root)
820             tmp_root_width , tmp_root_height = 400, 300
821             tmp_root.geometry(f'{tmp_root_width}x{tmp_root_height}')
822             tmp_root.attributes("-topmost", True)
823
824             temp_frame = CTkFrame(tmp_root, width= tmp_root_width, height =
825                 tmp_root_height, border_color= "#007acc", border_width= 2)
826             temp_frame.pack()
827
828             Flight_ID_entry = CTkEntry(temp_frame, placeholder_text= "Ticket ID",width=
829                 350)
830             Flight_ID_entry.place(x = (tmp_root_width/(2))-(350/2),
831                 y = (tmp_root_height/(2)-(28/2))-38)
832
833             def Cancel_tickets():
834                 Flight_id = Flight_ID_entry.get()
835
836                 cur.execute("SELECT BID, BU_NAME FROM booking WHERE BID = %s AND IS_ACTIVE
837 = 1", Flight_id)
838                 row = cur.fetchone()
839                 global User
840                 if row and row[1] == User :
841                     cur.execute("UPDATE booking SET IS_ACTIVE = 0 WHERE BID = %s AND
842 IS_ACTIVE = 1", Flight_id)
843                     lbl = CTkLabel(temp_frame, text ="Successfully Canceled",
844                     text_color="green", font = ("Bradley Hand ITC", 18, "italic", "bold"))

```

```

#setErrorLabeling(temp_frame, "Successfully Canceled", _textcolor = "green", _x = 110, _y =
(tmp_root_height/(2)-(28/2)+38) )
839                               lbl.place(x = 110, y = (tmp_root_height/(2)-(28/2)+38))
840                               def w8():
841                                   tmp_root.destroy()
842                                   con.commit()
843                                   lbl.after(3000,w8)
844                               else:
845                                   setErrorLabeling(temp_frame, "Flight ID is Incorrect", _x = 110, _y =
(tmp_root_height/(2)-(28/2)+38))
846
847                               Cancel_btn = CTkButton(temp_frame, text="Cancel Flight", width = 350 ,
corner_radius= 100, command= Cancel_tickets)
848                               Cancel_btn.place(x = (tmp_root_width/(2))-(350/2),
849                                               y = (tmp_root_height/(2)-(28/2)))
850
851                               if option == "Booking History" :
852                                   Setting_btn.set("Settings")
853                                   tmp_root = CTkToplevel(root)
854                                   tmp_root_width , tmp_root_height = 900, 300
855                                   tmp_root.geometry(f"{tmp_root_width}x{tmp_root_height}")
856                                   tmp_root.attributes("-topmost", True)
857                                   tmp_root.resizable(False, False)
858
859                               temp_frame = CTkScrollableFrame(tmp_root, width= tmp_root_width, height =
tmp_root_height, border_color= "#007acc", border_width= 2)
860                               temp_frame.pack()
861                               global User
862                               cur.execute("SELECT BU_NAME, BID, F_Departure, F_Arrival, F_Airline, F_price
FROM booking B, flights F WHERE B.BU_NAME = %s AND B.B_FLIGHT = F.F_ID AND B.IS_ACTIVE = 1",
User)
863                               row = cur.fetchall()
864                               for i in row :
865                                   CTkLabel(temp_frame, text = i).pack(padx = 20, pady = 5, anchor = "w")
866
867                               if option == "Edit Account" :
868                                   Setting_btn.set("Settings")
869                                   tmp_root = CTkToplevel(root)
870                                   tmp_root_width , tmp_root_height = 400, 600
871                                   tmp_root.geometry(f"{tmp_root_width}x{tmp_root_height}")
872                                   tmp_root.attributes("-topmost", True)
873                                   tmp_root.resizable(False, False)
874
875                               form_frm_width = 400
876                               form_frm_height = 600
877                               form_frm = CTkFrame(tmp_root, width=form_frm_width, height=form_frm_height)
878                               form_frm.place(x = 0, y = 0)
879
880                               def go_back():
881                                   for i in Main_fame.winfo_children():
882                                       i.destroy()

```

```

883     PG_Sign_in()
884
885     def NullCheck():
886         global DOB_selected_date, cal
887         F_name = F_name_Entry.get()
888         L_name = L_name_Entry.get()
889         U_name = U_name_Entry.get()
890         _Gender = Gender.get()
891         if "cal" in globals():
892             dob = cal.get_date()
893             dob_dt = datetime.strptime(dob, "%Y-%m-%d")
894             today = datetime.today()
895             global Age
896             Age = today.year - dob_dt.year
897             if (today.month, today.day) > (dob_dt.month, dob_dt.day):
898                 Age +=1
899             else :
900                 dob = ""
901             Gmail = gmail_Entry.get()
902             _pass = crypt(pass_Entry.get()).encrypt()
903             _re_pass = crypt(re_pass_Entry.get()).encrypt()
904             phononenumber = phonnumber_Entry.get()
905
906             if _pass != _re_pass:
907                 errorLabeling(form_frm, "Passwords Don't Match", _x = 110, _y = 410)
908
909             if F_name != "":
910                 cur.execute("UPDATE user_details set UF_name = %s", F_name)
911
912             if L_name != "":
913                 cur.execute("UPDATE user_details set UL_name = %s", L_name)
914
915             if U_name != "":
916                 cur.execute("UPDATE user_details set U_name = %s", U_name)
917
918             if _Gender != "other" :
919                 cur.execute("UPDATE user_details set U_gender = %s", _Gender)
920
921             if phononenumber != "":
922                 cur.execute("UPDATE user_details set U_phno = %s", phononenumber)
923
924             if _pass != "":
925                 cur.execute("UPDATE user_details set U_password = %s", _pass)
926
927             if Gmail != "":
928                 cur.execute("UPDATE user_details set U_Gmail = %s", Gmail)
929
930             if dob != "":
931                 cur.execute("UPDATE user_details set U_dob = %s", dob)
932                 cur.execute("UPDATE user_details set U_AGE = %s", Age)

```

```

933
934             if F_name == "" and L_name == "" and U_name == "" and dob == "" and Gmail
935 == "" and _pass == "" and _re_pass == "" and phonenumer == "" and _Gender == "other" :
936                 errorLabeling(form_frm, "Feilds Cannot Be Null", _x = 110, _y = 410)
937
938             else :
939                 lbl = CTkLabel(form_frm, text= "Succesfully Updated", text_color=
940 "green", font=("Bradley Hand ITC" , 18, "italic", "bold"))
941                 lbl.place(x = 110, y = 410)
942                 # errorLabeling(form_frm, "Succesfully Updated", _textcolor = "green",
943 _x = 110, _y = 410)
944
945             def w8():
946                 tmp_root.destroy()
947                 lbl.after(3000, w8)
948                 con.commit()
949
950             cur.execute("SELECT UF_name, UL_name, U_name, U_Gmail, U_phno, U_password,
951 U_dob, U_gender, U_AGE FROM user_details WHERE U_name = %s", User)
952             result = cur.fetchone()
953
954             F_name_Entry = CTkEntry(form_frm, width = 350, placeholder_text=result[0])
955             F_name_Entry.place(x = 25, y = 10)
956
957             L_name_Entry = CTkEntry(form_frm, width = 350, placeholder_text=result[1])
958             L_name_Entry.place(x = 25, y = 50)
959
960             def Func_radio_btn():
961                 global _Gender
962                 _Gender = Gender.get()
963
964                 global Gender
965                 Gender = StringVar(value = "other")
966
967                 rd_btn_y_pos = 90
968
969                 male_radio_btn = createRadioButton(form_frm,
970 "Male", "M", Gender, Func_radio_btn, 25, rd_btn_y_pos)
971
972                 female_radio_btn = createRadioButton(form_frm, "Female", "F",
973 Gender, Func_radio_btn, 25+130, rd_btn_y_pos)
974
975                 other_radio_btn = createRadioButton(form_frm, "Other", "O",
976 Gender, Func_radio_btn, 25+130 + 130, rd_btn_y_pos)
977
978                 global cal
979
980                 def DOB_open_date_picker():
981
982                     top = CTkToplevel(form_frm)
983                     top.title("Select a Date")
984                     top.attributes("-topmost", True)
985                     global cal

```

```

977         cal = Calendar(top, selectmode='day', date_pattern = "yyyy-mm-dd")
978         cal.pack(pady=10)
979         def select_date():
980             global DOB_selected_date
981             DOB_selected_date = cal.get_date()
982             DOB_Date_label.configure(text=f"Selected Date : {DOB_selected_date}")
983             top.destroy()
984
985             select_button = CTkButton(top, text="Select Date", command=select_date)
986             select_button.pack(pady=10)
987
988             DOB_Date_Btn = CTkButton(form_frm, text="Date Of Birth",
989             command=DOB_open_date_picker, corner_radius=100)
990             DOB_Date_Btn.place(x=25, y =rd_btn_y_pos+40)
991
992             DOB_Date_label = CTkLabel(form_frm, text= "Select Date")
993             DOB_Date_label.place(x = 25+170, y = 90+40)
994
995             U_name_Entry = CTkEntry(form_frm, width = 350, placeholder_text=result[2])
996             U_name_Entry.place(x = 25, y = 130+40)
997
998             gmail_Entry = CTkEntry(form_frm, width = 350, placeholder_text=result[3])
999             gmail_Entry.place(x = 25, y = 170+40)
1000
1001
1002             def Show_pass():
1003                 if pass_Entry.cget('show') == '*':
1004                     pass_Entry.configure(show='')
1005                     show_btn.configure(text=" Hide ")
1006                 else:
1007                     pass_Entry.configure(show='*')
1008                     show_btn.configure(text="Show")
1009
1010             def Re_Show_pass():
1011                 if re_pass_Entry.cget('show') == '*':
1012                     re_pass_Entry.configure(show='')
1013                     re_show_btn.configure(text=" Hide ")
1014                 else:
1015                     re_pass_Entry.configure(show='*')
1016                     re_show_btn.configure(text="Show")
1017
1018             pass_Entry = CTkEntry(form_frm, width = 350, placeholder_text="Password", show
1019 = "*")
1020             show_btn = CTkButton(pass_Entry, width = 22, height=28,
1021             text="Show",border_color="#565b5e",border_width=2, fg_color="transparent", command>Show_pass)
1022             show_btn.place(x = 304, y=0)
1023             pass_Entry.place(x = 25, y = 170+80)
1024
1025             re_pass_Entry = CTkEntry(form_frm, width = 350, placeholder_text="Re-
1026 Password", show = "*")

```

```

1024         re_show_btn = CTkButton(re_pass_Entry, width = 22, height=28,
1025     text="Show",border_color="#565b5e",border_width=2, fg_color="transparent",
1026     command=Re_Show_pass)
1027
1028     re_show_btn.place(x = 304, y=0)
1029     re_pass_Entry.place(x = 25, y = 210+80)
1030
1031     phonnumber_Entry = CTkEntry(form_frm, 350, placeholder_text=result[4])
1032     phonnumber_Entry.place(x = 25, y =250+80)
1033
1034     Create_acc_btn = CTkButton(form_frm, width = 350, text="Alter Account",
1035     corner_radius=100, command = NullCheck)
1036     Create_acc_btn.place(x = 25, y = 290+80)
1037
1038     temp_frame2 = CTkFrame(form_frm, width = 100, height= 200, border_color=
1039     "light Grey", border_width= 2,fg_color= "transparent")
1040     lbl = CTkLabel(temp_frame2, text="Enter The Feilds That You Want to
1041     Change",fg_color= "transparent")
1042     lbl.pack()
1043     def onhover(event):
1044         temp_frame2.place(x = 25, y =410+40)
1045
1046     info_Btn = CTkButton(form_frm, text = "i", width= 10, height = 5,
1047     corner_radius= 100, hover= "on_hover")
1048     info_Btn.place(x = 25, y = 370+40)
1049     info_Btn.bind("<Enter>", onhover)
1050     info_Btn.bind("<Leave>", lambda event : temp_frame2.place_forget())
1051
1052     if option == "Logout":
1053         _isSignedIn = False
1054         User = ""
1055         isAdmin = False
1056         PG_Get_Flight_Details()
1057
1058     if option == "Adiministrate":
1059         temp_TL = CTkToplevel(root)
1060         temp_TL.title("http://www.HADAirlineManagementSystem.com/Admin")
1061         temp_TL.attributes("-topmost", True)
1062         temp_TL.geometry("400x300")
1063
1064         def addAdmin():
1065             temp_TL.destroy()
1066             temp_TL2 = CTkToplevel(root)
1067             temp_TL2.title("http://www.HADAirlineManagementSystem.com/Admin")
1068             temp_TL2.attributes("-topmost", True)
1069             temp_TL2.geometry("400x300")
1070
1071             def add():
1072                 user = user_Entry.get()
1073                 cur.execute("UPDATE user_details SET U_isAdmin = 1 WHERE U_name = %s",
1074                 user)
1075                 con.commit()

```

```

1068         if cur.execute("SELECT U_isAdmin from user_details WHERE U_name = %s",
1069             user)==1:
1070             label = CTkLabel(temp_TL2, text= "Successfully Updated", font=
1071 ("Bradley Hand ITC" , 18, "italic", "bold"), text_color= "green")
1072             label.place(x = 110, y = 178)
1073             def dest():
1074                 label.destroy()
1075                 temp_TL2.destroy()
1076                 label.after(3000, dest)
1077             else:
1078                 label = CTkLabel(temp_TL2, text= "Username Not Found Or Server
1079 Down ", font= ("Bradley Hand ITC" , 18, "italic", "bold"), text_color= "red")
1080                 label.place(x = 45, y = 178)
1081                 def dest():
1082                     label.destroy()
1083                     label.after(3000, dest)
1084
1085             user_Entry = CTkEntry(temp_TL2, placeholder_text= "UserName To Change As
1086 Admin", width=240)
1087             user_Entry.place(x = 80, y = 100)
1088
1089             user_Entry_btn = CTkButton(temp_TL2, text= " Change", command=add)
1090             user_Entry_btn.place(x = 130, y = 138)
1091
1092             def delAdmin():
1093                 temp_TL.destroy()
1094                 temp_TL2 = CTkToplevel(root)
1095                 temp_TL2.title("http://www.HADAirlineManagementSystem.com/Admin")
1096                 temp_TL2.attributes("-topmost", True)
1097                 temp_TL2.geometry("400x300")
1098
1099             def _del():
1100                 user = user_Entry.get()
1101                 cur.execute("UPDATE user_details SET U_isActive = 0 WHERE U_name =
1102 %s", user)
1103                 con.commit()
1104                 if cur.execute("SELECT U_isActive from user_details WHERE U_name =
1105 %s", user)==0:
1106                     label = CTkLabel(temp_TL2, text= "Username Not Found Or Server
1107 Down ", font= ("Bradley Hand ITC" , 18, "italic", "bold"), text_color= "red")
1108                     label.place(x = 45, y = 178)
1109                     def dest():
1110                         label.destroy()
1111                         label.after(3000, dest)
1112
1113                     else:
1114                         label = CTkLabel(temp_TL2, text= "Successfully Deleted", font=
1115 ("Bradley Hand ITC" , 18, "italic", "bold"), text_color= "green")
1116                         label.place(x = 110, y = 178)

```

```

1111     def dest():
1112         label.destroy()
1113         temp_TL2.destroy()
1114         label.after(3000, dest)
1115
1116
1117         user_Entry = CTkEntry(temp_TL2, placeholder_text= "UserName To Delete From
1118 Admin", width=240)
1119         user_Entry.place(x = 80, y = 100)
1120
1121         user_Entry_btn = CTkButton(temp_TL2, text= " Change", command=_del)
1122         user_Entry_btn.place(x = 130, y = 138)
1123
1124     def addFlights():
1125         temp_TL.destroy()
1126         temp_TL2 = CTkToplevel(root)
1127         temp_TL2.title("http://www.HADAirlineManagementSystem.com/Admin")
1128         temp_TL2.attributes("-topmost", True)
1129         temp_TL2.geometry("400x300")
1130
1131     def add():
1132         dept = Dept_Entry.get()
1133         arr = Arr_Entry.get()
1134         Air = Air_Entry.get()
1135         price = price_Entry.get()
1136         cur.execute("SELECT COUNT(*) FROM flights")
1137         tempCount = cur.fetchone()[0]
1138         if dept ==""or arr ==""or Air ==""or price =="":
1139             errorLabeling(temp_TL2, "Fields Cannot Be Empty", _x = 30, _y =
1140             190+35)
1141             elif not price.isdigit():
1142                 errorLabeling(temp_TL2, "Check The Price", _x = 30, _y = 190+35)
1143             else:
1144                 cur.execute("INSERT INTO flights(F_Departure,F_Arrival,F_Airline,
1145 F_price ) VALUES (%s, %s,%s,%s)", (dept, arr, Air, int(price)))
1146                 con.commit()
1147                 cur.execute("SELECT COUNT(*) FROM flights")
1148                 check_Count = cur.fetchone()[0]
1149                 if check_Count ==tempCount+1:
1150                     label = CTkLabel(temp_TL2, text= "Successfully Added", font=
1151 ("Bradley Hand ITC" , 18, "italic", "bold"), text_color= "green")
1152                     label.place(x = 110, y = 190+35)
1153                     def dest():
1154                         label.destroy()
1155                         temp_TL2.destroy()
1156                         label.after(3000, dest)
1157
1158                     else:
1159                         label = CTkLabel(temp_TL2, text= " Error Occured While Inserting
1160 ", font= ("Bradley Hand ITC" , 18, "italic", "bold"), text_color= "red")
1161                         label.place(x = 45, y = 190+35)

```

```

1157         def dest():
1158             label.destroy()
1159             label.after(3000, dest)
1160
1161             tempy = 50
1162             Dept_Entry = CTkEntry(temp_TL2, placeholder_text= "Departure Place",
1163 width=240)
1164             Dept_Entry.place(x = 80, y = tempy)
1165
1166             Arr_Entry = CTkEntry(temp_TL2, placeholder_text= "Arrival Place",
1167 width=240)
1168             Arr_Entry.place(x = 80, y = tempy+35)
1169
1170             Air_Entry = CTkEntry(temp_TL2, placeholder_text= "Airline Name",
1171 width=240)
1172             Air_Entry.place(x = 80, y = tempy+35+35)
1173
1174             price_Entry = CTkEntry(temp_TL2, placeholder_text= "Price", width=240)
1175             price_Entry.place(x = 80, y = tempy+35+35+35)
1176
1177             add_Flight_btn = CTkButton(temp_TL2, text="Add", command=add)
1178             add_Flight_btn.place(x = 125, y = tempy+35+35+35+35)
1179
1180             def delflights():
1181                 temp_TL.destroy()
1182                 temp_TL2 = CTkToplevel(root)
1183                 temp_TL2.title("http://www.HADAirlineManagementSystem.com/Admin")
1184                 temp_TL2.attributes("-topmost", True)
1185                 temp_TL2.geometry("760x300")
1186
1187             def _del():
1188                 flightId = FlightIDEntry.get()
1189                 if flightId == "":
1190                     errorLabeling(temp_TL2, "Field Empty", _x = 345, _y = 1)
1191                 elif flightId.isalpha():
1192                     errorLabeling(temp_TL2, "Invalid ID", _x = 346, _y = 1)
1193                 else:
1194                     cur.execute("SELECT F_ID FROM flights WHERE F_IsActive = 1")
1195                     result = cur.fetchall()
1196                     if (int(flightId),) not in result:
1197                         errorLabeling(temp_TL2, "ID Not Found", _x = 344, _y = 1)
1198                     else:
1199                         cur.execute("UPDATE flights SET F_IsActive = 0 WHERE F_ID =
% s", flightId)
1200                         #errorLabeling(temp_TL2, "Deleted", _x = 347, _y = 1)
1201                         con.commit()
1202                         label = CTkLabel(temp_TL2, text= "Successfully Deleted", font=
("Bradley Hand ITC" , 18, "italic", "bold"), text_color= "green")
1203                         label.place(x = 336, y = 1)
1204                         def dest():
1205                             label.destroy()

```

```

1203         temp_TL2.destroy()
1204         label.after(3000, dest)
1205
1206
1207     tempx, tempy = 10, 30
1208     FlightIDEntry = CTkEntry(temp_TL2, placeholder_text="Flight ID")
1209     FlightIDEntry.place(x = tempx+240, y = tempy)
1210
1211     mod_btn = CTkButton(temp_TL2, text="Modify", command=_del)
1212     mod_btn.place(x = tempx+390, y = tempy)
1213
1214     sckrlble_frame = CTkScrollableFrame(temp_TL2, width = 720, height=220)
1215     sckrlble_frame.place(x = tempx, y = tempy+35)
1216     cur.execute("SELECT * FROM Flights WHERE F_IsActive = 1")
1217     result = cur.fetchall()
1218     for i in result:
1219         lbl = CTkLabel(sckrlble_frame, text=f"{i[0]} {i[1]} {i[2]} {i[3]} {i[4]}", text_color= "Light Gray")
1220         lbl.pack(padx = 50,pady = 10, anchor = "w")
1221
1222     def ModFlights():
1223         temp_TL.destroy()
1224         temp_TL2 = CTkToplevel(root)
1225         temp_TL2.title("http://www.HADAirlineManagementSystem.com/Admin")
1226         temp_TL2.attributes("-topmost", True)
1227         temp_TL2.geometry("760x300")
1228
1229     def mod():
1230         flightId = FlightIDEntry.get()
1231         if flightId == "":
1232             errorLabeling(temp_TL2, "Feild Empty", _x = 345, _y = 1)
1233         elif flightId.isalpha():
1234             errorLabeling(temp_TL2, "Invalid ID", _x = 346, _y = 1)
1235         else:
1236             cur.execute("SELECT F_ID FROM flights WHERE F_IsActive = 1")
1237             result = cur.fetchall()
1238             if (int(flightId),) not in result:
1239                 errorLabeling(temp_TL2, "ID Not Found", _x = 344, _y = 1)
1240             else:
1241                 temp_TL2.destroy()
1242                 temp_TL3 = CTkToplevel(root)
1243                 temp_TL3.title("http://www.HADAirlineManagementSystem.com/Admin")
1244                 temp_TL3.attributes("-topmost", True)
1245                 temp_TL3.geometry("400x300")
1246
1247                 tempx, tempy = 10 , 30
1248                 cur.execute("SELECT * FROM flights WHERE F_ID = %s", flightId)
1249                 result = cur.fetchone()
1250

```

```

1251         def Check():
1252             Dept = Dept_Entry.get()
1253             Arr = Arr_Entry.get()
1254             Air = Air_Entry.get()
1255             price = price_Entry.get()
1256
1257             if Dept != "":
1258                 cur.execute("UPDATE flights SET F_Departure = %s WHERE
F_ID =%s", (Dept,flightId))
1259
1260             if Arr != "":
1261                 cur.execute("UPDATE flights SET F_Arrival = %s WHERE
F_ID =%s", (Arr,flightId) )
1262
1263             if Air != "":
1264                 cur.execute("UPDATE flights SET F_Airline = %s WHERE
F_ID =%s", (Air,flightId) )
1265
1266             if price != "":
1267                 cur.execute("UPDATE flights SET F_price = %s WHERE
F_ID =%s", (price,flightId))
1268
1269                 con.commit()
1270                 label = CTkLabel(temp_TL3, text= "Successfully Updated",
font= ("Bradley Hand ITC" , 18, "italic", "bold"), text_color= "green")
1271                     label.pack(pady = 5)
1272                     def dest():
1273                         label.destroy()
1274                         temp_TL3.destroy()
1275                         label.after(3000, dest)
1276
1277                     Dept_Entry = CTkEntry(temp_TL3,
placeholder_text=result[1],width = 240)
1278                     Dept_Entry.pack(pady = 5)
1279                     Arr_Entry = CTkEntry(temp_TL3,
placeholder_text=result[2],width = 240)
1280                     Arr_Entry.pack(pady = 5)
1281                     Air_Entry = CTkEntry(temp_TL3,
placeholder_text=result[3],width = 240)
1282                     Air_Entry.pack(pady = 5)
1283                     price_Entry = CTkEntry(temp_TL3,
placeholder_text=result[4],width = 240)
1284                     price_Entry.pack(pady = 5)
1285                     Upd_BTN = CTkButton(temp_TL3, text="Update",width = 240,
command=Check)
1286                     Upd_BTN.pack(pady = 5)
1287
1288                     tempx, tempy = 10, 30
1289                     FlightIDEntry = CTkEntry(temp_TL2, placeholder_text="Flight ID")
1290                     FlightIDEntry.place(x = tempx+240, y = tempy)
1291

```

```

1292         mod_btn = CTkButton(temp_TL2, text="Modify", command=mod)
1293         mod_btn.place(x = tempx+390, y = tempy)
1294
1295         sckrlble_frame = CTkScrollableFrame(temp_TL2, width = 720, height=220)
1296         sckrlble_frame.place(x = tempx, y = tempy+35)
1297         cur.execute("SELECT * FROM Flights WHERE F_IsActive = 1")
1298         result = cur.fetchall()
1299         for i in result:
1300             lbl = CTkLabel(sckrlble_frame, text=f"{i[0]} {i[1]} {i[2]} {i[3]} {i[4]}", text_color= "Light Gray")
1301             lbl.pack(padx = 50,pady = 10, anchor = "w")
1302
1303             tempx = 55
1304             tempy = 150
1305             Add_Admin_btn = CTkButton(temp_TL, text="Add Admin", command=addAdmin)
1306             Add_Admin_btn.place(x = tempx, y = tempy-30)
1307
1308             Add_Flight_btn = CTkButton(temp_TL, text="Add Flights", command=addFlights)
1309             Add_Flight_btn.place(x = tempx+150, y = tempy-30)
1310
1311             Rem_Flight_btn = CTkButton(temp_TL, text="Delete Flights", command=
1312 delflights)
1313             Rem_Flight_btn.place(x = tempx+150, y = tempy+10)
1314
1315             Rem_Admin_btn = CTkButton(temp_TL, text="Delete Admin", command=delAdmin)
1316             Rem_Admin_btn.place(x = tempx, y = tempy+10)
1317
1318             Mod_Flight_btn = CTkButton(temp_TL, text="Modify Flights", command=
1319 ModFlights)
1320             Mod_Flight_btn.place(x = 130, y = tempy+50)
1321
1322 ####### ADMINISTRATE
1323     if isAdmin==1:
1324         option = ["Cancel Flights", "Booking History", "Edit Account", "Adiministrate",
1325 "Logout"]
1326     else:
1327         option = ["Cancel Flights", "Booking History", "Edit Account", "Logout"]
1328         Setting_btn = CTkOptionMenu(Main_fame, values= option, command= on_select)
1329         Setting_btn.place(x = ((m_r_width/(1.2))-(lbl_width/2)) +lbl_width+ 10, y = 10)
1330         Setting_btn.set("Settings")
1331
1332     temp_xpos = m_r_width-300
1333     Sign_in_btn = CTkButton(Main_fame, text = "Sign In", command= PG_Sign_in)
1334     Sign_in_btn.place(x = temp_xpos, y = 10)
1335
1336     Sign_up_btn = CTkButton(Main_fame, text = "Sign Up", fg_color="transparent",
1337 border_color= "grey", border_width=2, command=PG_Sign_Up)
1338     Sign_up_btn.place(x = temp_xpos+150, y = 10)
1339

```

```
1338 Main_frm.Authentication_Btns()
1339
1340 PG_Get_Flight_Details()
1341
1342 #-----#
1343
1344 root.mainloop()
1345 cur.close()
1346 con.commit()
1347
```