"""Module name : Project.py Main project framework"""

**import os** *# built-in module*

**import time** *# built-in module*

**import booking** *# built-in module* **from review\_mod import** \* *# program module* **from dtbs\_mod import** \* *# program module*

welcome() *# Welcome message*

**print**("Please Enter your Mysql Credintials to continue:")

**while** True:

**try**:

con = connectdb() *# Connect to Mysql*

# break

**except Exception as** e:

**print**(*"Message:"*, e) *# Display encountered error*

**print**("Something went wrong.Please try again.**\n**")

time.sleep(0.5) *# Display connection status*

os.system(*"cls"*) *# Clear terminal screen*

**while** True:

**print**(*'****\n\t\t****Main Menu****\n\n****Choose an option from the below listed :* ***\n****'*)

**print**(*' 1. Reviews of places* ***\n*** *2. Your Reviews '*) **print**(*' 3. Hotel Bookings* ***\n*** *4. Attraction of the day '*) **print**(*' 5. Exit '*)

q = input(*"****\n\n****Your choice (1,2,3,4,5) : "*)

**if** q == *'1'*:

**try**:

infoplace = input(*"Enter the place you would like to know about : "*) info(con, infoplace) *# Show reviews*

# except Exception as e:

**print**(*"Error code:"*, e) time.sleep(0.5)

**elif** q == *'2'*:

**while** True:

**print**("**\n\t\t**Reviews**\n\n**Enter an option from the below listed : **\n**") **print**("Enter a : To write review **\n**Enter b : To edit a review ") **print**("Enter c : To delete a review **\n**Enter d : To view previous reviews ") **print**("Enter e : Exit this option")

op4 = input(*"****\n\n****Your choice (a,b,c,d,e) : "*)

**if** op4.lower() == *'a'*:

p = input(*"Enter the Place: "*) create(con, p)

## **elif** op4.lower() == *"b"*: edit(con) time.sleep(0.5)

**elif** op4.lower() == *"c"*: delete(con)

## time.sleep(0.5)

**elif** op4.lower() == *"d"*:

id = int(input(*"Enter the reference id: "*)) show\_reviews(con, id)

## time.sleep(1)

**elif** op4.lower() == *'e'*:

# break

**else**:

**print**(*"Kindly enter a valid option"*) time.sleep(0.5)

## time.sleep(0.7)

**elif** q == *'3'*:

**print**("**\n\n**Enter the website you would like to do your hotel booking in : ")

**print**(*" 1. Yatra****\n*** *2. Easemytrip****\n*** *3. Exit* ***\n\n****"*)

**while** True:

choice = input(*"Your response :"*)

**if** choice == *"1"*: booking.yatra() **break**

**elif** choice == *"2"*: booking.easemytrip() **break**

**elif** choice == *"3"*:

# break else:

**print**(*"Sorry , please enter a valid option"*) time.sleep(0.5)

**elif** q == *'4'*: attrofday(con)

**elif** q == *'5'*:

# break

**else**:

**print**(*"Please enter a valid choice."*) con.close()

**print**(*"Thank you for using our service"*) time.sleep(1.5)

*"""Module Name : dtbs\_mod.py*

*All functions related to Mysql connections and database creations."""*

**import os** *# built-in module*

**import pwinput.pwinput as pw** *# pip install pwinput*

**import mysql.connector as mysql** *# pip install mysql-connector-python*

**def** connectdb(): *# Connect to Mysql*

usr = input(*"Enter Username: "*)

psw = pw.pwinput(*"Enter Password: "*)

con = mysql.connect(host=*'localhost'*, user=usr, passwd=psw) curs = con.cursor()

create\_dbase(curs)

**print**(*"****\n****MySQL connection established* ✅*"*)

**return** con

**def** create\_dbase(curs): *# Creating database in Mysql*

sql1 = *"SELECT count(\*) FROM information\_schema.TABLES WHERE "*

sql2 = *"(TABLE\_SCHEMA = 'Review') AND (TABLE\_NAME = 'Reviews')"*

sql = sql1 + sql2 curs.execute(sql)

c = curs.fetchone()[0]

**if** c == 0:

curs.execute(*"Create Database Review"*) curs.execute(*"Use Review"*)

path = os.getcwd().replace(*'****\\****'*, *'/'*) + *"/review\_reviews.sql"*

create\_rev(path, curs)

**else**:

curs.execute(*"Use Review"*)

**def** create\_rev(fname, curso): *# Create Tables in Mysql from dump file*

fd = open(fname, *'r'*) sqlFile = fd.read() fd.close()

sqlCommands = sqlFile.split(*';'*)

**for** command **in** sqlCommands:

**try**:

**if** command.strip() != *''*: curso.execute(command)

**except IOError as** msg:

**print**(*"Command skipped: "*, msg)

"""Module name : review\_mod.py

All functions related with accessing and manipulating reviews"""

**import os** *# built-in module* **import sys** *# built-in module* **import random** *# built-in module*

**def** Wiki(): *# Add wikipedia to Python path*

## path = os.getcwd()

wiki\_path = path + *r"\Wikipediam"*

## sys.path.append(wiki\_path)

Wiki()

**import wikipedia** *# Only import after appending to path*

**def** welcome(): *# welcome message*

**print**(*"****\t\t\t\t****WELCOME!* ***\n****"*)

wel1 = "This program has been designed to help you find information " wel2 = "regarding places in Kerala.We hope this will be of help to you " wel3 = "in finding what you are looking for!**\t\t\t\t\n**"

## wel = wel1 + wel2 + wel3

**print**(wel)

**def** info(conn, infoplace): *# Show Reviews*

## result = wikipedia.summary(infoplace, sentences=5)

**print**(result)

p\_wiki = result.split()[0] status(conn, infoplace, p\_wiki) **print**(*"****\n****Reviews:"*)

## show\_reviews\_info(conn, infoplace, p\_wiki)

ch = input(*"Do you want to add review?(y/n): "*)

## **if** ch.lower() == *"y"*: create(conn, infoplace)

**print**()

**def** attrofday(conn): *# Attraction of the day*

## curs = conn.cursor()

query = 'SELECT DISTINCT Place FROM reviews'

curs.execute(query) placesl = curs.fetchall() places = []

**for** i **in** placesl: places.append(i[0])

attraction = random.choice(places) info(conn, attraction) curs.close()

**def** create(conn, place): *# for writing reviews*

## f = 2

curs = conn.cursor()

**while** f != 1:

m = input(*'Write your review here: '*)

ctad = input(*"Current restrictions(Skip if not available): "*)

name = input(*"Enter Your name: "*) curs.execute(*"SELECT max(rev\_id) FROM Reviews"*) n = curs.fetchone()[0]

**print**(*"Reference id for editing or deleting your review is: "*, n + 1) t = (n + 1, name, place, m, ctad)

sql1 = 'INSERT INTO Reviews(rev\_id,usr\_name,Place,Reviews,trvl\_avl) '

sql2 = *"values(****%s****,****%s****,****%s****,****%s****,****%s****)"* sql = sql1 + sql2 curs.execute(sql, t) conn.commit()

f = int(input(*'Enter zero to quit. '*)) f = f + 1

## curs.close()

**def** show\_reviews\_info(conn, place, pl\_wiki): *# for displaying reviews*

## curs = conn.cursor()

sql = "SELECT usr\_name,REVIEWS,revdate,trvl\_avl FROM Reviews WHERE Place in (**%s**,**%s**)"

## curs.execute(sql, (place, pl\_wiki)) rev = curs.fetchall()

**if** rev:

**for** i **in** rev:

**print**(i[0], *' '*, i[2], *'****\n****'*, i[1])

# else:

**print**(*"No Reviews were Found."*)

**print**() curs.close()

**def** edit(conn): *# for editing reviews previously entered*

## curs = conn.cursor()

a = int(input(*"Enter Review Id for the review you would like to edit: "*)) show\_reviews(conn, a, *'edit'*)

b = input(*"Enter new review: "*)

ctad = input(*"Current restrictions(Skip if not available): "*)

s = (*"Update Reviews set Reviews=****%s****, trvl\_avl=****%s*** *where rev\_id=****%s****"*) curs.execute(s, (b, ctad, a))

## **if** curs.rowcount == 0:

**print**("The reference id entered does not exist.Enter a valid id")

# else:

**print**(*"Review has been updated"*) conn.commit()

## curs.close()

**def** delete(conn): *# for deleting reviews previously entered*

## curs = conn.cursor()

d = int(input("Enter the reference id for the review you would like to delete: ")) s = ('Delete from Reviews where rev\_id=**%s**')

## curs.execute(s, (d,))

**if** curs.rowcount == 0:

**print**("The reference id entered does not exist.Enter a valid id.")

# else:

**print**(*"Review has been deleted"*) conn.commit()

## curs.close()

**def** status(conn, pl, plw): *# show status of a place if available*

## curs = conn.cursor()

query1 = "SELECT trvl\_avl,rev\_id,usr\_name,revdate FROM Reviews WHERE Place=**%s** "

query2 = "or Place=**%s** GROUP BY revdate HAVING revdate=max(revdate)"

query = query1 + query2 *# query cut short to compensate hard copy*

## curs.execute(query, (pl, plw)) dat = curs.fetchall()

**if** dat:

## sta = dat[0][0] date = dat[0][3] name = dat[0][2]

**if** sta != *"Data not available"*:

**print**(*"Current Status ( last updated on"*, date, *'by'*, name, *') :'*, sta)

# else:

**print**("Current Status: (Please add through reviews)")

# else:

**print**(*"Current Status: (Please add through reviews)"*) curs.close()

**def** show\_reviews(conn, id, mode=*"d"*): *# show reviews according to revid*

## curso = conn.cursor()

curso.execute(*"SELECT Reviews,Place FROM Reviews WHERE rev\_id=****%s****"*, (id,)) r = curso.fetchone()

**if** r:

## place, rev = r[1], r[0]

**if** mode == *'edit'*: *# show reviews in edit op*

**print**(*"Old review of"*, place, *":"*, rev)

**elif** mode == *'d'*: *# show reviews according to id*

**print**(*"Your review of"*, place, *":"*, rev)

# else:

**if** mode == *'d'*:

**print**(*"Review id doesn't exist"*) curso.close()

"""Module name : Booking.py

Module containing booking related functions"""

**import webbrowser** *# built-in module*

**def** yatra():

**print**(*"****\n\t****YATRA"*)

place = input(*"****\n****Enter Destination : "*)

adults = int(input(*"Enter total number of Adults : "*)) children = int(input(*"Enter total number of children : "*))

site1 = "https://[www.yatra.com/pwa/hotels/srp?roomRequests](http://www.yatra.com/pwa/hotels/srp?roomRequests)[0].id=1&roomRequests[0]."

site2 = "noOfAdults={}&roomRequests[0].noOfChildren={}&source=BOOKING\_ENGINE&" site3 = "pg=1&tenant=B2C&isPersnldSrp=1&city.name={}&city.code={}&state.name=" site4 = "KER&state.code=KER&country.name=India&country.code=IND"

# Web Address reduced to compensate with Hard copy

## site = site1 + site2 + site3 + site4

yatra = (site.format(adults, children, place, place)) **print**(*"You are being redirected..."*) webbrowser.open(yatra, new=1)

**def** easemytrip():

**print**(*"****\n\t****EASEMYTRIP"*)

destination = input(*"Enter your Destination : "*)

checkin = input(*"Enter Check-in date in format DD/MM/YYYY : "*) checkout = input(*"Enter Check-out date in format DD/MM/YYYY : "*) pax = input(*"Enter number of adults : "*)

rooms = input(*"Enter number of rooms required : "*)

site1 = "https://hotels.easemytrip.com/newhotel/Hotel/HotelListing?e=202193214436&"

site2 = "city={},%20India&cin={}&cOut={}&Hotel=NA&Rooms={}&pax={}"

site = site1 + site2 *# Web address reduced to compensate with Hard copy* easemytrip = (site.format(destination, checkin, checkout, rooms, pax)) **print**(*"You are being redirected..."*)

webbrowser.open(easemytrip, new=1)