User Guide CallACab

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Our Application CallACab provides the users with the essential features of booking a ride from one place to another and provides them with the top-rated drivers at a reasonable price to ensure they have a smooth and comfortable ride experience.

1. The user creates a new account using their Email and then logs into the account.
2. After logging in, the user is given the option to either book a ride or view their profile.
3. When the user selects the option to book a ride, they are asked their pickup and dropoff location, along with the unique ID allotted to them.
4. After they enter the required information, a reasonable fare is calculated and a ride is requested.
5. A top-rated available driver is allotted, and the ride starts after asking for the user's permission.
6. At the end of the ride, the user is asked to make the payment. They can make payment through the mode of payment of their choice.
7. This completes the ride for the user in a smooth and efficient manner.
8. The user can view their account details, which lists all the information they entered while creating their account.
9. They also have the option to delete their account permanently if they no longer wish to continue.

Here's the working of the above mentioned features implemented in Python:

```
import random
import mysql.connector
mydb  = mysql.connector.connect(host = "127.0.0.1",user = "root" , passwd
= "kritika_21395#", auth_plugin='mysql_native_password')

mycursor = mydb.cursor()
mycursor.execute("use call_a_cab")

#Define the function for creating a new account
def create_account():
    Email = input("Enter your Email: ")
    Password = input("Create password: ")
    Name= input("Enter your Name: ")
    Location= input("Enter your location: ")
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    # Check if the email already exists
    mycursor.execute("SELECT * FROM passenger_account WHERE Email=%s",
(Email,))
    existing_user = mycursor.fetchone()

    if existing_user:
        print("\nUser already exists...move to Login")
    else:
        # Add the new user to the database
        sql = "INSERT INTO passenger_account (Passenger_ID,Email,
Password, Name, Location) VALUES (%s,%s, %s, %s, %s)"
        val = (None,Email, Password, Name, Location)
        mycursor.execute(sql, val)
        mydb.commit()
        print("\nAccount created successfully")

def book_ride():
    print("\nRequest Ride!")
    p_ID= int(input("Enter your ID: "))
    pickup= input("pickup location: ")
    dropoff= input("Enter dropoff location: ")
    amount= random.randint(1,5000)
    print("\nEstimated Ride Amount= ", amount)
    input("Type 'enter' to proceed: ")

    # Insert the ride request information into the database
    sql = "INSERT INTO ride_request (Request_ID,Pickup_location,
Dropoff_location, Passenger_ID) VALUES (%s,%s,%s,%s)"
    val = (None,pickup, dropoff,p_ID)
    mycursor.execute(sql, val)
    mydb.commit()

    print("\nRide Requested...looking for drivers")
    print("-------------------------------------------------------")
    print("\nDriver is on the way")

    mycursor.execute("SELECT Driver_ID, Mobile_No, Rating FROM driver
WHERE Rating IN (3,4,5) AND Status='Available'")
    result= mycursor.fetchall()
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    for i in result:
        print("Driver ID: ",i[0])
        print("Mobile No.: ",i[1])
        print("Rating: ",i[2])

    request_ID= mycursor.execute("SELECT Request_ID FROM ride_request
WHERE Passenger_ID="+str(p_ID))

    ride= input("\ntype 'enter to start ride: ")
    if ride== "enter":
        print("Ride ongoing.........")
        # Insert the ride information into the database
        sql = "INSERT INTO ride (Ride_ID,Pickup_location,
Dropoff_location, Request_ID) VALUES (%s,%s,%s,%s)"
        val = (None,pickup, dropoff,request_ID)
        mycursor.execute(sql, val)
        mydb.commit()

    print("-----------------------------------------------------")
    print("\nRide Completed...proceed to make payment")
    mode= input("\nEnter payment mode: ")
    payment= input("press enter to make payment: ")
    if payment== "enter":
        # Insert the payment information into the database
        sql = "INSERT INTO payments (Ride_ID,Amount, Payment_Mode,
Passenger_ID) VALUES (%s,%s,%s,%s)"
        val = (None,amount, mode,p_ID)
        mycursor.execute(sql, val)
        mydb.commit()
        print("\n Payment Successful! Thanks for riding with us!")

print("-----------------------------------------------------------------
-")
    else:
        print("Payment Failed, try again!")

def view_account_details(Email, Password):
    # Retrieve account details from the database
    mycursor.execute("SELECT * FROM passenger_account WHERE Email=%s AND
Password=%s", (Email, Password))
```

```
    result = mycursor.fetchall()
    print("\nYour Account Details\n")
    for i in result:
        print("ID: ",i[0])
        print("Email: ",i[1])
        print("Password: ",i[2])
        print("Name: ",i[3])
        print("Location: ",i[4])

    delete= input("\nPress D to delete this account, else press P to
proceed: ")
    if delete=="D":
        mycursor.execute("DELETE FROM passenger_account WHERE Email=
%s",(Email,))
        print("Account Deleted")
    if delete=="P":
        pass

#Define the function for logging into existing account
def login():
    Email = input("Enter your Email: ")
    Password = input("Enter password: ")

     # Check if the email and password are correct
    mycursor.execute("SELECT * FROM passenger_account WHERE Email=%s AND
Password=%s", (Email, Password))
    existing_user = mycursor.fetchone()

    if existing_user:
        print("\nLogin Successful!")
        print("\nWelcome!!")
        while True:
            print("\n1. Book a Ride")
            print("2. View Account Details")
            print("3. Return")
            main= int(input("Your choice is: "))
            if main==1:
                book_ride()
            if main==2:
                view_account_details(Email, Password)
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            if main==3:
                break

    else:
        print("\nIncorrect email or password")

while True:
    print("\nEnter your Choice:")
    print("1. Create a New Account")
    print("2. Login Account")
    print("3. Exit")
    select_choice = int(input("\nYour Choice is: "))

    if select_choice==1:
        create_account()
    if select_choice==2:
        login()
    if select_choice==3:
        break
```