SOURCE CODE

```python
import csv

import mysql.connector as ms


def viewbuses():

    #view all details of buses


con=ms.connect(user='root',host='localhost',password='isdannu123',database='project',charset='utf8')

    cur=con.cursor()

    a='Select * from BUSES;'

    cur.execute(a)

    data=cur.fetchall()

    print()


print('***************************************************LIST OF BUSES*************************************************')

    print()
```

```python
    print('%-8s'%'BUS_ID','%-10s'%'BUS_NAME','%-
12s'%'START','%-15s'%'DESTINATION','%-15s'%'DURATION','%-
12s'%'DEPARTURE','%-12s'%'ARRIVAL','%-8s'%'PRICE')

    print('%-8s'%'=====','%-10s'%'=======','%-12s'%'=====','%-
15s'%'==========','%-15s'%'=======','%-
12s'%'========','%-12s'%'======','%-8s'%'=====')

    for i in data:

        print('%-8s'%i[0],'%-10s'%i[1],'%-12s'%i[2],'%-15s'%i[3],'%-
15s'%i[4],'%-12s'%i[5],'%-12s'%i[6],'%-10s'%i[7])

    cur.close()

    con.close()



def changeloc():

    #change the locations-start and destination



con=ms.connect(user='root',host='localhost',password='isdannu123',d
atabase='project',charset='utf8')

    cur=con.cursor()

    con.autocommit=True

    n=input('Enter bus id: ')

    a='Select * from BUSES'

    cur.execute(a)

    data=cur.fetchall()

    found=False
```

```python
    for i in data:

        if i[0]==n.upper():

            st=input('Enter new starting location of bus: ').capitalize()

            dest=input('Enter new destination of bus: ').capitalize()

            found=True

    print()

    if found==False:

        print('Sorry, bus not found!')

    else:

        b='Update BUSES set start="'+st+'", destination="'+dest+'"
where bus_id="'+n+'";'

        cur.execute(b)

        print('Successfully updated.')

    cur.close()

    con.close()


def changetime():

    #change timings

con=ms.connect(user='root',host='localhost',password='isdannu123',d
atabase='project',charset='utf8')

    cur=con.cursor()

    con.autocommit=True
```

```python
    n=input('Enter bus id: ')

    a='Select * from BUSES'

    cur.execute(a)

    data=cur.fetchall()

    found=False

    for i in data:

        if i[0]==n.upper():

            dep=input('Enter new departure time: ')

            ar=input('Enter new arrival time: ')

            found=True

    print()

    if found==False:

        print('Sorry, bus not found!')

    else:

        b='Update BUSES set departure="'+dep+'", arrival="'+ar+'"
where bus_id="'+n+'";'

        cur.execute(b)

        print('Successfully updated.')

    cur.close()

    con.close()



def changeduration():
```

```python
#change duration of travel

con=ms.connect(user='root',host='localhost',password='isdannu123',database='project',charset='utf8')
    cur=con.cursor()
    con.autocommit=True
    n=input('Enter bus id: ')
    a='Select * from BUSES'
    cur.execute(a)
    data=cur.fetchall()
    found=False
    for i in data:
        if i[0]==n.upper():
            dr=input('Enter new duration of travel: ')
            found=True
    print()
    if found==False:
        print('Sorry, bus not found!')
    else:
        b='Update BUSES set duration="'+dr+'" where bus_id="'+n+'";'
        cur.execute(b)
        print('Successfully updated.')
    cur.close()
```

```python
        con.close()

def changeprice():
    #change price of tickets

con=ms.connect(user='root',host='localhost',password='isdannu123',database='project',charset='utf8')
    cur=con.cursor()
    con.autocommit=True
    n=input('Enter bus id: ')
    a='Select * from BUSES'
    cur.execute(a)
    data=cur.fetchall()
    found=False
    for i in data:
        if i[0]==n.upper():
            p=input('Enter new price for the ticket: ')
            found=True
    print()
    if found==False:
        print('Sorry, bus not found!')
    else:
        b='Update BUSES set price="'+p+'" where bus_id="'+n+'";'
```

```
        cur.execute(b)

        print('Successfully updated.')

    cur.close()

    con.close()


def createbustable(bn):

    #create the bus table in sql


con=ms.connect(user='root',host='localhost',password='isdannu123',d
atabase='project',charset='utf8')

    cur=con.cursor()

    con.autocommit=True

    a='create table '+bn+' (row char(1), col1 char(2), col2 char(2), col3
char(2), col4 char(2), col5 char(2))'

    cur.execute(a)

    a='insert into '+bn+' (ROW) values ("A");'

    cur.execute(a)

    a='insert into '+bn+' (ROW) values ("B");'

    cur.execute(a)

    a='insert into '+bn+' (ROW) values ("C");'

    cur.execute(a)

    a='insert into '+bn+' (ROW) values ("D");'

    cur.execute(a)
```

```python
    a='insert into '+bn+' (ROW) values ("E");'

    cur.execute(a)

    a='insert into '+bn+' (ROW) values ("F");'

    cur.execute(a)

    a='insert into '+bn+' (ROW) values ("G");'

    cur.execute(a)

    a='insert into '+bn+' (ROW) values ("H");'

    cur.execute(a)

    a='update '+bn+' set col1="EM", col2="EM", col4="EM",
col5="EM";'

    cur.execute(a)

    a='update '+bn+' set col3="EM" where row="H";'

    cur.execute(a)

    cur.close()

    con.close()


def delbustable(bn):

    #delete the bus table in sql


con=ms.connect(user='root',host='localhost',password='isdannu123',d
atabase='project',charset='utf8')

    cur=con.cursor()

    con.autocommit=True
```

```python
        a='drop table '+bn
        cur.execute(a)
        cur.close()
        con.close()


def addbus():
    #add a bus


con=ms.connect(user='root',host='localhost',password='isdannu123',database='project',charset='utf8')
    cur=con.cursor()
    con.autocommit=True
    n=input('Enter bus id: ').upper()
    a='Select * from BUSES'
    cur.execute(a)
    data=cur.fetchall()
    found=False
    for i in data:
        if i[0]==n:
            found=True
            print('This bus already exists!')
    if found==False:
        bname=input('Enter bus name: ').upper()
```

```python
        st=input('Enter starting location: ').capitalize()

        dest=input('Enter destination: ').capitalize()

        dur=input('Enter duration: ')

        dep=input('Enter departure time: ')

        ar=input('Enter arrival time: ')

        pr=input('Enter price for the ticket: ')

        a='insert into buses values
("'+n+'","'+bname+'","'+st+'","'+dest+'","'+dur+'","'+dep+'","'+ar+'",'+
pr+');'

        cur.execute(a)

        createbustable(n)

        print()

        print('Successfully added bus.')


    cur.close()

    con.close()


def removebus():

    #delete a bus


con=ms.connect(user='root',host='localhost',password='isdannu123',d
atabase='project',charset='utf8')

    cur=con.cursor()
```

```python
        con.autocommit=True

        n=input('Enter bus id: ').upper()

        print()

        a='Select * from BUSES'

        cur.execute(a)

        data=cur.fetchall()

        found=False

        for i in data:

            if i[0]==n:

                found=True

                a='delete from buses where bus_id="'+n+'";'

                cur.execute(a)

                delbustable(n)

                print('Successfully deleted bus.')

        if found==False:

            print('Sorry, bus not found!')

        cur.close()

        con.close()


def admlogin():

    #entering username and password of admin-to login

    ans='y'
```

```python
    while ans=='y':

        f=open('ADM.csv','r')

        rec=csv.reader(f)

        un=input('Enter your username: ')

        pw=input('Enter your password: ')

        print()

        for i in rec:

            if i[0]==un and i[1]==pw:

                print('Successfully logged in.')

                print()

                f.close()

                return(True)

        else:

            print('Sorry, this username/password does not exist!')

            print()

        ans=input('Do you want to try again? (y/n): ').lower()

        print()

        f.close()

    return(False)


def viewuser():

    #view all the user details to the admin
```

```python
    print()


print('*************************************************USER
DETAILS***************************************************')

    print()

    f=open('USERdetails.txt','r')

    content=f.readlines()

    f.close()

    print('%-10s'%'USER-ID','%-20s'%'NAME','%-20s'%'PHONE-
NO','%-30s'%'EMAIL-ID','%-20s'%'SEAT-NO','%-10s'%'BUS-NO')

    print('%-10s'%'======','%-20s'%'====','%-
20s'%'=======','%-30s'%'========','%-20s'%'=======','%-
10s'%'=====')

    for j in content:

        if j=='\n':

            continue

        else:

            i=(j.strip('\n')).split(',')

            print('%-10s'%i[0],'%-20s'%i[1],'%-20s'%i[2],'%-
30s'%i[3],'%-20s'%i[4],'%-10s'%i[5])


def admmainprogram():
```

```python
#program for admin
print()


print('**********************************************
*******LOGIN*******************************************
***************')

    print()

    if admlogin():

        ans='y'

        while ans=='y':

            print('------------------------------'.center(120,' '))

            print('|          MENU          |'.center(120,' '))

            print('------------------------------'.center(120,' '))

            print('| 1. View all details of buses |'.center(120,' '))

            print('| 2. Change bus details       |'.center(120,' '))

            print('| 3. Add a new bus           |'.center(120,' '))

            print('| 4. Delete an existing bus    |'.center(120,' '))

            print('| 5. View all details of users |'.center(120,' '))

            print('| 6. Exit                |'.center(120,' '))

            print('------------------------------'.center(120,' '))

            print()

            ch=input('Please enter your choice (1/2/3/4/5/6): ')

            print()
```

```python
        print()
        if ch=='1':
            print('You have chosen to VIEW ALL DETAILS OF
BUSES.')
            viewbuses()
        elif ch=='2':
            print('You have chosen to CHANGE THE BUS
DETAILS.')
            print()
            while True:
                print('------------------------------------------'.center(120,'
'))
                print('|                    MENU                    |'.center(120,' '))
                print('------------------------------------------'.center(120,'
'))
                print('| 1. Change locations-start and destination
|'.center(120,' '))
                print('| 2. Change timings of bus                |'.center(120,'
'))
                print('| 3. Change duration of travel            |'.center(120,'
'))
                print('| 4. Change ticket price                  |'.center(120,' '))
                print('| 5. Go back to Admin-main page
|'.center(120,' '))
```

```python
                print('------------------------------------------'.center(120,'
'))

            print()

            a=input('Please enter your choice (1/2/3/4/5): ')

            print()

            if a=='1':

                print('You have chosen to CHANGE START AND
END LOCATIONS.')

                changeloc()

            elif a=='2':

                print('You have chosen to CHANGE TIMINGS.')

                changetime()

            elif a=='3':

                print('You have chosen to CHANGE DURARTION
OF TRAVEL.')

                changeduration()

            elif a=='4':

                print('You have chosen to CHANGE TICKET
PRICE.')

                changeprice()

            elif a=='5':

                print('BACK TO ADMIN PAGE')

                print()
```

```python
                break
            else:
                print('WRONG CHOICE!')
                print('Enter again')
            print()
        continue
    elif ch=='3':
        print('You have chosen to ADD A NEW BUS.')
        addbus()
    elif ch=='4':
        print('You have chosen to DELETE AN EXISTING BUS.')
        removebus()
    elif ch=='5':
        print('You have chosen to VIEW ALL DETAILS OF
USERS.')
        viewuser()
    elif ch=='6':
        print('BYE!')
        print('Exiting program')
        break
    else:
        print('WRONG CHOICE!')
        print('You can only enter 1 or 2 or 3 or 4 or 5 or 6')
```

```python
            print()

            ans=input('Do you want to enter again? (y/n): ').lower()

            print()

            continue

        print()

        print()

        ans=input('Do you want to continue? (y/n): ').lower()

        print()

    else:

        print('BYE!')

        print('Exiting')




def bususers():

    #display all the bus details for users

con=ms.connect(user='root',host='localhost',password='isdannu123',d
atabase='project',charset='utf8')

    cur=con.cursor()

    a='Select * from BUSES;'

    cur.execute(a)

    data=cur.fetchall()

    print()
```

```python
print('*************************************************
***LIST OF
BUSES*************************************************
****')
    print()
    print('%-10s'%'NAME','%-12s'%'START','%-
15s'%'DESTINATION','%-15s'%'DURATION','%-
12s'%'DEPARTURE','%-12s'%'ARRIVAL','%-8s'%'PRICE')
    print('%-10s'%'====','%-12s'%'=====','%-
15s'%'===========','%-15s'%'========','%-
12s'%'=========','%-12s'%'======','%-8s'%'=====')
    for i in data:
        print('%-10s'%i[1],'%-12s'%i[2],'%-15s'%i[3],'%-15s'%i[4],'%-
12s'%i[5],'%-12s'%i[6],'%-10s'%i[7])
    cur.close()
    con.close()


def checkseats(bn):
    #check the availabilty of seats for different buses

con=ms.connect(user='root',host='localhost',password='isdannu123',d
atabase='project',charset='utf8')
    cur=con.cursor()
    #print()
```

```python
    print()
    a='select * from B0'+bn+';'
    print('','ROW'.center(6,' '),'|','COL1'.center(8,' '),'COL2'.center(8,'
'),'COL3'.center(8,' '),'COL4'.center(8,' '),'COL5'.center(8,' '),'
'*5,'(EM-empty OC-occupied)')


print('=============================================
========')
    cur.execute(a)
    data=cur.fetchall()
    for i in data:
        if i[3]!=None:
            print('',i[0].center(6,' '),'|',i[1].center(8,' '),i[2].center(8,'
'),i[3].center(8,' '),i[4].center(8,' '),i[5].center(8,' '))
        else:
            print('',i[0].center(6,' '),'|',i[1].center(8,' '),i[2].center(8,'
'),''.center(8,' '),i[4].center(8,' '),i[5].center(8,' '))
    cur.close()
    con.close()



def viewticket():
    #view booked tickets
    uid=input('Please enter your unique user-id: ').lower()
```

```python
    print()

    f=open('USERdetails.txt','r')

    content=f.readlines()

    f.close()

    for j in content:

        i=j.split(',')

        if i[0]==uid:

            bus=i[5].rstrip('\n')


print('*************************************************
***YOUR
DETAILS*******************************************
*******')

        print()

        print('%-20s'%'NAME','%-20s'%'PHONE-NO','%-
30s'%'EMAIL-ID','%-20s'%'SEAT-NO','%-10s'%'BUS-NO')

        print('%-20s'%'====','%-20s'%'========','%-
30s'%'========','%-20s'%'=======','%-10s'%'======')

        print('%-20s'%i[1],'%-20s'%i[2],'%-30s'%i[3],'%-
20s'%i[4],'%-10s'%i[5])

        print()


print('*************************************************
****BUS
```

```
DETAILS*********************************************
*******')

        print()


con=ms.connect(user='root',host='localhost',password='isdannu123',d
atabase='project',charset='utf8')

        cur=con.cursor()

        a='Select
bus_name,start,destination,duration,departure,arrival,price from buses
where bus_name="'+bus+'";'

        cur.execute(a)

        data=cur.fetchone()

        print('%-11s'%'BUS-NAME','%-18s'%'STARTING-
POINT','%-16s'%'DESTINATION','%-15s'%'DURATION','%-
14s'%'DEPARTURE','%-14s'%'ARRIVAL','%-8s'%'PRICE')

        print('%-11s'%'========','%-18s'%'==============','%-
16s'%'===========','%-15s'%'========','%-
14s'%'=========','%-14s'%'=======','%-8s'%'=====')

        print('%-11s'%data[0],'%-18s'%data[1],'%-16s'%data[2],'%-
15s'%data[3],'%-14s'%data[4],'%-14s'%data[5],'%-10s'%data[6])

        cur.close()

        con.close()

        print()

        break

    else:
```

```python
        print('Sorry, details not found!')


def bookticket():
    #book tickets-any number
    bus=input('Enter the bus number (1/2/3..): ')

con=ms.connect(user='root',host='localhost',password='isdannu123',database='project',charset='utf8')
    cur=con.cursor()
    con.autocommit=True
    ans='y'
    while ans=='y':
        checkseats(bus)
        print()
        row=input('Enter the ROW (A/B/C..): ').upper()
        col=input('Enter the COLUMN (1/2/3..): ').upper()
        seat=row+col
        a='Select col'+col+' from B0'+bus+' where row="'+row+'";'
        cur.execute(a)
        data=cur.fetchone()
        if data==('EM',):
            a='Update B0'+bus+' set col'+col+'="OC" where row="'+row+'";'
```

```python
        cur.execute(a)

        print()

        print('PLEASE ENTER YOUR DETAILS')

        f=open('USERdetails.txt','a')

        name=input('Your Name: ')

        pno=input('Your Phone number: ')

        mail=input('Your Email-id: ')

        uid=(name[0]+seat+pno[0]+bus).lower()

        f.write('\n')

        f.write(uid+','+name+','+pno+','+mail+','+seat+',BUS '+bus)

        f.close()

        print()

        print('Successfully booked "'+seat+'"!')

        print('This seat is now reserved for you, you can pay on the
day of travel.')

        print('***Your unique user-id is:',uid,'***')

        print('(DO NOT SHARE WITH ANYONE)')

        print()

        ans=input('Book another seat? (y/n): ').lower()

    else:

        print()

        print('Sorry, This seat is already taken or is not available!')

        ans=input('Book some other seat? (y/n): ').lower()
```

```python
            print()
    cur.close()
    con.close()


def cancelticket():
    #cancel the tickets-if booked

con=ms.connect(user='root',host='localhost',password='isdannu123',database='project',charset='utf8')
    cur=con.cursor()
    con.autocommit=True
    uid=input('Please enter your unique user-id: ').lower()
    f=open('USERdetails.txt','r')
    content=f.readlines()
    found=False
    f.close()
    l=[]
    for i in content:
        j=(i.strip('\n')).split(',')
        if j[0]==uid:
            found=True
            seat=j[4]
            bus=j[5][-1]
```

```python
            continue

        else:

            l.append(i)

    if found==True:

        f=open('USERdetails.txt','w')

        f.writelines(l)

        f.close()

        a='Update B0'+bus+' set col'+seat[1]+'="EM" where
row="'+seat[0]+'";'

        cur.execute(a)

        cur.close()

        con.close()

        print('Sucessfully cancelled your tickets.')

    else:

        print('Sorry, user id not found!')


def aboutcompany():

    #display details about the company

    print('_'*121)

    print()

    print('ABOUT US:')

    print("Slide Travels is a pioneer in the online bus reservation in
India which provides clients with the best bus transportation services
```

from the comforts of their homes and offices. We provide real-time bus booking services to direct customers, agents and tour operator partners.")

```
print("The idea for Slide Travels has stemmed from the need for simple travel solutions. Buses are the most commonly used form of travel in India, be it within a city or intra-city. In fact, buses are sometimes the only form of transportation available to reach the remote parts of India.")

print('Slide Travels was commissioned in July, 2011 in Hyderabad. The first service was started from Bangalore to Hyderabad (Semi-Sleeper) on 7.7.2011 with Mercedes Benz vehicle. And subsequently Spread its Operations, gradually in due course, to various cities/towns of India such as Chennai, Mumbai, Nagpur, Pune, Coimbatore, Hyderabad etc.')

print('_'*121)

print()

print()

print("Welcome to Slide Travels-India's leading bus transport operator with a huge and modern buses in its fleet".center(120,' '))

print('"ALWAYS CHOOSE YOUR DESTINATION WITH SLIDE TRAVELS" :)'.center(120,' '))

print()

print()

print('CUSTOMER SATISFACTION'.center(40,' '),'SECURE BOOKING'.center(40,' '),'BEST DEALS'.center(40,' '))
```

```python
    print('--------------------'.center(40,' '),'-------------'.center(40,' '),'----------'.center(40,' '))

    print('We offer expert and passionate'.center(40,' '),'We guarantee your privacy'.center(40,' '),'We have the best'.center(40,' '))

    print('advice for finding the right service'.center(40,' '),'our Reservation system is secure'.center(40,' '),'services at the best price'.center(40,' '))

    print()

    print('_'*121)

    print()

    print('%-40s'%'CORPORATE OFFICE',' '*38,'%40s'%'CONNECT WITH US')

    print('%-40s'%'Our address: Slide Travels, Road 194',' '*38,'%40s'%'Telephone: +91 9618143012/+91 912570036')

    print('%-50s'%'Plot no 02-196 Beside METRO Wholesale Supermarket',' '*8,'%60s'%'Please give us your feedback: feedback@slidetravels.in')

    print('%-40s'%'Sanikipuri, Hyderabad, Telangana',' '*38,'%40s'%'Email: www.slidetravels.in')

    print('_'*121)


def usermainprogram():
    #Program for user
    print()
    print('Hi!')
```

```python
print("Welcome to Slide Travels-India's leading bus transport
operator with a huge and modern buses in its fleet")

print()

print('''ALWAYS CHOOSE YOUR DESITNATION WITH
SLIDE TRAVELS''')

print()

ans='y'

while ans=='y':

    print('-----------------------------------'.center(120,' '))

    print('|          MENU              |'.center(120,' '))

    print('-----------------------------------'.center(120,' '))

    print('| 1. View all buses              |'.center(120,' '))

    print('| 2. Check the availability of seats |'.center(120,' '))

    print('| 3. Book ticket                 |'.center(120,' '))

    print('| 4. View your ticket             |'.center(120,' '))

    print('| 5. Cancel ticket               |'.center(120,' '))

    print('| 6. About us                    |'.center(120,' '))

    print('| 7. Exit                        |'.center(120,' '))

    print('-----------------------------------'.center(120,' '))

    print()

    ch=input('Please enter your choice (1/2/3/4/5/6/7): ')

    print()

    if ch=='1':
```

```python
        print()

        print('You have chosen to VIEW ALL DETAILS OF
BUSES.')

        bususers()

    elif ch=='2':

        print()

        print('You have chosen to CHECK THE AVAILABILTY OF
SEATS.')

        print()

        num=input('Enter the bus number (1/2/3..): ')

        checkseats(num)

    elif ch=='3':

        print()

        print('You have chosen to BOOK A TICKET.')

        print()

        bookticket()

    elif ch=='4':

        print()

        print('You have chosen to VIEW YOUR BOOKING.')

        print()

        viewticket()

    elif ch=='5':

        print()
```

```python
        print('You have chosen to CANCEL YOUR BOOKING.')

        print()

        cancelticket()

    elif ch=='6':

        aboutcompany()

    elif ch=='7':

        print()

        print('THANK YOU for visiting us.')

        print('Have a great day! Bye :)')

        break

    else:

        print()

        print('WRONG CHOICE!')

        print('You can only enter 1 or 2 or 3 or 4 or 5 or 6 or 7')

        print()

        ans=input('Would you like to enter again? (y/n): ').lower()

        continue

    print()

    ans=input('Would you like to continue? (y/n): ').lower()

    print()

else:

    print()
```

```python
        print('THANK YOU for visiting us.')

        print('Have a great day! Bye :)')


#Main program

print('_'*121)

print()

viewer=input('ADMIN OR USER? ').upper()

while True:

    if viewer=='ADMIN':

        admmainprogram()

        print('_'*121)

        break

    elif viewer=='USER':

        print('_'*121)

        usermainprogram()

        print('_'*121)

        break

    else:

        viewer=input('Please enter if you are an ADMIN or USER:
').upper()


#PROGRAM ENDED
```