



# VELAMMAL VIDYALAYA

## ALAPAKKAM



**Academic Session : 2022-23**

**SUBJECT : COMPUTER SCIENCE**

**SUBMITTED BY :  
NAME OF THE STUDENT :DEEPAK.R  
CLASS & SEC :XII-C  
EXAM NO : 12C07**

**SUBMITTED TO  
TEACHER NAME  
DESIGNATION**

**TOPIC :RAILWAY TICKET BOOKING SYSTEM**

# VELAMMAL EDUCATIONAL TRUST



**VELAMMAL VIDYALAYA, ALAPAKKAM**

**Name :**

**Batch No :**

**Class :**

**Regd. No :**

## **Certificate**

**Certified that this is a bonafide Record of Practical work done  
by Mr/Miss. \_\_\_\_\_ in the  
\_\_\_\_\_ Laboratory during the year \_\_\_\_\_**

**Teacher – In- Charge**

**MR.PRAVEEN**

**Submitted for the Practical Examination in \_\_\_\_\_ at  
\_\_\_\_\_ held on \_\_\_\_\_**

**Principal**

**Internal Examiners**

**External Examiner**

## **ACKNOWLEDGEMENT**

In the accomplishment of this project successfully, many people have bestowed their blessings and heart pledged support upon me, I take this opportunity to express my gratitude to all, who have been instrumental in the successful completion of this project.

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I am grateful for their constant support and help

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# **INTRODUCTION**

Railway ticket reservation system is very useful software used for purpose of ticket booking for railways with the help of Python language. This project is very useful for the people to book their railway tickets in digital ways, by sitting at home with one cell phone in their hand. This railway ticket reservation project was only developed using Python Programming language. The need of this system arose because as it is known that the fact, India has the largest railway network in the whole world. By computerizing it, we will be able to overcome more time and able to make it more efficient. Online reservation has made the process for the reservation of seats very much easier than even before.

## **OBJECTIVE OF THE PROJECT**

**The objective of this project is to let the students apply the programming knowledge into a real-world situation and exposed the students how programming skills helps in developing a good software.**

- Write programs utilizing modern software tools.
- Apply object oriented programming principles effectively when developing small to medium sized projects.
- Write effective procedural code to solve small to medium sized problem.
- Students will demonstrate a breadth of knowledge in computer science, as exemplified in the areas of systems, theory and software development.

Students will demonstrate ability to conduct a research or applied Computer Science project, requiring writing and presentation skills which exemplify scholarly style in computer science..

# **FEASIBILITY STUDY**

The objective of feasibility study is to determine whether the project system is feasible. The feasibility is determined in terms of three aspects.

These are:-

## ✓ **Economic Feasibility**

The project is economical as it doesn't really require much time to spend. It had the utmost concentration on making the project more user friendly. Thereby, it is made possible that anyone with a normal device with Python in it can use it.

## ✓ **Technical Feasibility**

The project must be technical feasible as to ensure that the project is proceeding or not. It is taken utmost care use an ensuring platform. Python which is both developable and technological. As the technologies used are safe and user friendly, the project is technically feasible.

## ✓ **Operational Feasibility**

The project is checked to ensure that it is user friendly, and the software meets all the needs of a person to use, makes it a operationally feasible one

## **SOURCE CODE**

```
import pymysql,random
mycon=pymysql.connect(host='localhost',user='root',passwd='1546',database='railway')
cursor=mycon.cursor()

def intro():
    print('\n*****WELCOME TO RAILWAY BOOKING AND
MANAGEMENT*****')
    print('``````````LIVE THE EXPERIENCE``````````\n')

def menu():
    while True:
        print('*'*40)
        print('\n',' '*10,'MENU\n')
        print('*'*40)
        print('\n1.TICKET RESERVATION')
        print('2.TICKET CANCELLING')
        print('3.CHANGE IN TRAIN DETAILS')
        print('4.CHANGE IN CUSTOMER DETAILS')
        c=int(input('ENTER THE CHOICE : '))
        if c==1:
            ticket_booking()
        elif c==2:
            ticket_cancel()
        elif c==3:
            change_train_det()
        elif c==4:
```



```

        change_cust_det()
    else:
        menu()
    print('\nENTER THE CHOICE ')
    print('~~~~~')
    print('\n1.YES')
    print('2.NO')
    c_con=input('DO YOU WANT TO CONTINUE : ')
    if c_con=='1':
        menu()
    else:
        exit()

def train_det():
    global dat1,dept_pt,arr_pt,trn_nam,dept_st,arr_st,dept_tim,arr_tim,tot_tim,
    tot_days,tot_km,date
    date=input('ENTER YOUR DATE OF JOURNEY : ')
    l='SELECT * FROM TRAIN_DET ORDER BY S_NO'
    cursor.execute(l)
    data=cursor.fetchall()
    count=cursor.rowcount
    print('\n','\n','**108','\n')
    print('S.NO|DEPARTURE POINT|ARRIVAL POINT|TRAIN
NAME|DEPT STATION|ARR STATION|DEPT TIME|ARR TIME|TOT
TIME|TOT DAYS|TOT KM|')
    print('\n','**108)
    for row in data:
        print(row)
    ch=int(input('\n\nENTER YOUR CHOICE:'))

```

```

a='SELECT * FROM TRAIN_DET WHERE S_NO=%s'%(ch,)
cursor.execute(a)
dat=cursor.fetchone()
dat1=list(dat)
print(dat1)
s_no=dat1[0]
dept_pt=dat1[1]
arr_pt=dat1[2]
trn_nam=dat1[3]
dept_st=dat1[4]
arr_st=dat1[5]
dept_tim=dat1[6]
arr_tim=dat1[7]
tot_tim=dat1[8]
tot_days=dat1[9]
tot_km=dat1[10]

```

```

def ticket_cancel():

```

```

    global aadh_no,name

```

```

    aadh_no=int(input('ENTER YOUR AADHAR NUMBER : '))

```

```

    name_=input('ENTER YOUR NAME : ')

```

```

    cursor=mycon.cursor()

```

```

    l='SELECT * FROM CUST_DET'

```

```

    cursor.execute(l)

```

```

    data=cursor.fetchall()

```

```

    D="SELECT * FROM CUST_DET WHERE AADHAR_NO=%s AND

```

```

NAME='%s'"%(aadh_no,name_)

```

```

    cursor.execute(D)

```

```

    dat=cursor.fetchone()

```

```

dat1=list(dat)

print('[S_NO,NAME,AGE,AADHAR_NO,GENDER,PHONE_NO,SEAT_NO,CITY]')
print(dat1)
query="DELETE FROM CUST_DET WHERE NAME='%s' AND
AADHAR_NO=%s" %(name_,aadh_no)
cursor.execute(query)
mycon.commit()
print('\n\n','~'*5,'YOU TICKET HAS BEEN CANCELLED','~'*5)

def change_train_det():
    psswd=int(input('\nENTER THE PASSWORD : '))
    t_id=int(input('ENTER THE ID : '))
    if psswd==12345 and t_id==98760:
        print('\nS.NO|*|DEPATURE POINT|*|ARRIVAL POINT|*|TRAIN
NAME|*|DEPT STATION|*|ARR STATION|*|DEPT TIME|*|ARR TIME|*|TOT
TIME|*|TOT DAYS|*|TOT KM|*|\n')
        q='SELECT * FROM TRAIN_DET ORDER BY S_NO'
        cursor.execute(q)
        data=cursor.fetchall()
        for rows in data:
            print(rows)
        quer=input('ENTER THE QUERY : ')
        cursor.execute(quer)
        mycon.commit()
        print('\nS.NO|*|DEPATURE POINT|*|ARRIVAL POINT|*|TRAIN
NAME|*|DEPT STATION|*|ARR STATION|*|DEPT TIME|*|ARR TIME|*|TOT
TIME|*|TOT DAYS|*|')
        qa='SELECT * FROM TRAIN_DET ORDER BY S_NO'

```

```

        cursor.execute(qa)
        mycon.commit()
        data=cursor.fetchall()
        for rows in data:
            print(rows)
    else:
        print('~~~~~PLEASE ENTER A VALID PASSWORD OR
ID~~~~~')
        change_train_det()

def change_cust_det():
    psswd=int(input('\n\nENTER THE PASSWORD : '))
    t_id=int(input('ENTER THE ID : '))
    if psswd==12345 and t_id==98760:
        print('\nS.NO|*|NAME|*|AGE|*|AADHAR NO|*|GENDER|*|PHONE
NUMBER|*|SEAT NUMBER|*|CITY|*|')
        q='SELECT * FROM CUST_DET '
        cursor.execute(q)
        data=cursor.fetchall()
        for rows in data:
            print(rows)
        quer=input('ENTER THE QUERY : ')
        cursor.execute(quer)
        q='SELECT * FROM CUST_DET ORDER BY S_NO'
        cursor.execute(q)
        mycon.commit()
        data=cursor.fetchall()
        for j in data:
            print(j)

```

```

else:
    print('~~~~~PLEASE ENTER A VALID PASSWORD OR
ID~~~~~')
    change_cust_det()

def cust_det():
    global
tic,name,age,ph_no,aadh_no,addr,city,stat,p_cd,rec,s,seat_no,gen_n,gen
    print('*'*40)
    tic=int(input('\nEnter total no of tickets: '))
    s=[]
    for i in range(tic):
        i=i
        print('*'*40)
        name=input('Enter your name : ')
        age=int(input('Enter your age : '))
        aadh_no=int(input('Enter your aadhar no : '))
        print('1.MALE')
        print('2.FEMALE')
        gen=input('Enter your choice of gender : ')
        if gen=='1':
            gen_n='MALE'
        elif gen=='2':
            gen_n='FEMALE'
        ph_no=int(input('Enter your phone no : '))
        seat_no=str(random.randint(10,99))
        city=input('Enter your city name: ')
        rec=[name,age,aadh_no,gen_n,ph_no,seat_no,city]
        a=s.append(rec)

```

```

        inser="insert into cust_det
values('{}','{}','{}','{}','{}','{}','{}','{}').format(i+1,name,age,aadh_no,gen_n,ph_no,sea
t_no,city)

        cursor.execute(inser)
        mycon.commit()
        print('*'*40)
        print('\n      CUSTOMER DETAILS\n')
        print('*'*40)
        addr=input('Enter your address: ')
        stat=input('Enter your state: ')
        p_cd=int(input('Enter your pincode: '))

def coach_det():
    global coach
    print('*'*40,'\n\nPLEASE SELECT THE CHOICE OF THE COACH\n')
    print('*'*40)
    coach='SELECT* FROM COACH_DET'
    cursor.execute(coach)
    dat3=cursor.fetchall()
    for i in dat3:
        print(i)
    cho=int(input('\nENTER YOUR CHOICE : '))
    a='SELECT * FROM COACH_DET WHERE S_NO=%s'%(cho,)
    cursor.execute(a)
    da=cursor.fetchall()
    dat2=list(da)
    print(dat2)
    coach=dat2[0]

```

```

def food():
    global food_cst
    print('*'*40)
    print('\n~~~~~DO YOU WANT FOOD IN TRAIN~~~~~')
    print('~~~~YOU SHOULD DEFINITELY WANNA TRY IT~~~~')
    print('1.YES\n2.NO')
    food=int(input('Enter your choice of food do you want or not: '))
    if food==1:
        print('\nTHANK YOU FOR ORDERING THE FOOD')
        print('\n~~~~~YOUR CHOICE OF FOOD~~~~~')
        print('1.VEGETARIAN\n2.NON-VEGETARIAN')
        var=int(input('Enter your choice of type of food you want: '))
        if var==1:
            print('YOUR FOOD WILL BE GIVEN AT THE TIME')
            food_cst=(((tot_days*3)*100)*tic)
            print('YOUR TOTAL COST FOR FOOD IS: ',food_cst)
        elif var==2:
            print('YOUR FOOD WILL BE GIVEN AT THE TIME')
            food_cst=(((tot_days*3)*200)*tic)
            print('YOUR TOTAL COST FOR FOOD IS: ',food_cst)
    elif food==2:
        print('YOU MISSED THE GREAT AROMA OF OUR FOOD')
        food_cst=0
    else:
        print('?????INVALID?????')

def confirm_ticketprice():
    global tot_cost,first_ac,sec_ac,thrd_ac,sec_seat,s
    print('*'*40)

```

```

print('\nYOUR TOTAL AMOUNT')
print('*'*40)
print('*\n*',"*3,"TOTAL NUMBER OF PASSENGERS TRAVELLING ARE : '
,tic)

if coach==1:
    first_ac=tot_km+1500
    tot_cost=first_ac+food_cst+50
    print('YOUR COST FOR TRAIN IS: ',first_ac)
    print('YOUR COST FOR FOOD IS: ',food_cst)
    print('RESERVATION COST CHARGES: ','50 ')
    print('YOUR TOTAL COST FOR BOOKING TICKET IS: ',tot_cost)
elif coach==2:
    sec_ac=tot_km+1000
    tot_cost=sec_ac+food_cst+50
    print('YOUR COST FOR TRAIN IS: ',sec_ac)
    print('YOUR COST FOR FOOD IS: ',food_cst)
    print('RESERVATION COST CHARGES: ','50 ')
    print('YOUR TOTAL COST FOR BOOKING TICKET IS: ',tot_cost)
elif coach==3:
    thrd_ac=tot_km+500
    tot_cost=thrd_ac+food_cst+50
    print('YOUR COST FOR TRAIN IS: ',thrd_ac)
    print('YOUR COST FOR FOOD IS: ',food_cst)
    print('RESERVATION COST CHARGES: ','50 ')
    print('YOUR TOTAL COST FOR BOOKING TICKET IS: ',tot_cost)
elif coach==4:
    tot_cost=tot_km+food_cst+50
    print('YOUR COST FOR TRAIN IS: ',km)
    print('YOUR COST FOR FOOD IS: ',food_cst)

```



```

    print('RESERVATION COST CHARGES: ',50 ')
    print('YOUR TOTAL COST FOR BOOKING TICKET IS: ',tot_cost)
elif coach==5:
    sec_seat=tot_km/2
    tot_cost=tot_km+sec_seat+food_cst+50
    print('YOUR COST FOR TRAIN IS: ',sec_seat)
    print('YOUR COST FOR FOOD IS: ',food_cst)
    print('RESERVATION COST CHARGES: ',50 ')
    print('YOUR TOTAL COST FOR BOOKING TICKET IS: ',tot_cost)
else:
    print('?????INVALID?????')

```

```

def payment():
    global email_id,ph_no,card_no,card_name,cvv
    print('*'*40)
    print('\nCREDIT/DEBIT CARD')
    print('*'*40)
    print('\nYOUR TOTAL COST FOR BOOKING TICKET IS: ',tot_cost)
    email_id=input('Enter your mail id : ')
    ph_no=int(input('Enter your mobile number : '))
    card_no=int(input('Enter card number : '))
    card_name=input('Enter the name on the card : ')
    cvv=int(input('Enter CVV number : '))
    print('*****PAYMENT SUCCESSFULLY DONE*****')
    print('\n*****THANK YOU ',name,'FOR BOOKING TRAIN TICKETS*****')
    print('\n!!!!!!SAFE AND HAPPY JOURNEY!!!!!!')
    print('\nYOUR TICKET WILL BE SENT IN',email_id)
    print('DO YOU WANT TO PREVIEW IT')
    print('1.YES\n2.NO')

```

```

prvw=int(input('Enter your choice of preview ticket: '))
if prvw==1:
    preview_ticket()
else:
    print('*****THANK YOU,VISIT AGAIN*****')
    print('\n\n!!!!!!SAFE AND HAPPY JOURNEY!!!!!!\n')

def preview_ticket():
    print('*'*80)
    print('*', ' '*28,'RAILWAY TICKET',' '*32,*)
    print('*'*80)
    print('*\n*', '*3,'TOTAL NUMBER OF PASSENGERS TRAVELLING ARE : '
,tic,' '*28,*)
    for j in range(tic):
        print('*', '*3, j+1, '.NAME',' '*7, '=',s[j][0], ' '*49,*)
        print('*', ' '*4,'AGE',' '*8, '=',s[j][1], ' '*53,*)
        print('*', ' '*4,'AADHAR NO',' '*2, '=',s[j][2], ' '*43,*)
        print('*', ' '*4,'GENDER ',' '*4, '=',s[j][3], ' '*51,*)
        print('*', ' '*4,'PHONE NO',' '*3, '=',s[j][4], ' '*45,*)
        if coach==1:
            print('*', ' '*4,'SEAT NO',' '*4, '=', '1A',s[j][5], ' '*50,*)
        elif coach==2:
            print('*', ' '*4,'SEAT NO',' '*4, '=', '2A',s[j][5], ' '*50,*)
        elif coach==3:
            print('*', ' '*4,'SEAT NO',' '*4, '=', '3A',s[j][5], ' '*50,*)
        elif coach==4:
            print('*', ' '*4,'SEAT NO',' '*4, '=', '4A',s[j][5], ' '*50,*)
        elif coach==5:
            print('*', ' '*4,'SEAT NO ',' '*5, '=', '5A',s[j][5], ' '*50,*)

```

```

    print('*',' '*4,'CITY',' '*7,'=',s[j][6],' '*48,'*')
print('*'*80)
print('* DATE OF JOURNEY  :',date,' '*37,'*')
print('* DEPARTURE AT    :',dept_pt,' '*48,'*')
print('* ARRIVAL AT      :',arr_pt,' '*45,'*')
print('* EMAIL ID        :',email_id,' '*38,'*')
print('* TOTAL COST IS   :',tot_cost,' '*51,'*')
print('* DEPARTURE STATION :',dept_st,' '*52,'*')
print('* ARRIVAL STATION  :',arr_st,' '*52,'*')
print('* DEPARTURE TIME   :',dept_tim,' '*50,'*')
print('* ARRIVAL TIME     :',arr_tim,' '*50,'*')
print('* TOTAL TRAVEL TIME :',tot_tim,' '*43,'*')
print('*','\n','**28,'THANK YOU,VISIT AGAIN','**28)
print('*','\n','**28,'SAFE AND HAPPY JOURNEY','**27)

```

```
def ticket_booking():
```

```

    train_det()
    cust_det()
    coach_det()
    food()
    confirm_ticketprice()
    payment()

```

```
def railway():
```

```

    intro()
    menu()
    ticket_booking()

```

```
railway()
```

# OUTPUT

## 1.TICKET RESERVATION

\*\*\*\*\*WELCOME TO RAILWAY BOOKING AND MANAGEMENT\*\*\*\*\*  
\*\*\*\*\*LIVE THE EXPERIENCE\*\*\*\*\*

\*\*\*\*\*

MENU

\*\*\*\*\*

1.TICKET RESERVATION  
2.TICKET CANCELLING  
3.CHANGE IN TRAIN DETAILS  
4.CHANGE IN CUSTOMER DETAILS  
ENTER THE CHOICE : 1  
ENTER YOUR DATE OF JOURNEY : 12 TH JANUARY 2023

\*\*\*\*\*

S.NO|\*|DEPARTURE POINT|\*|ARRIVAL POINT|\*|TRAIN NAME|\*|DEPT STATION|\*|ARR STATION|\*|DEPT TIME|\*|ARR TIME|\*|TOT TIME|\*|TOT DAYS|\*|T  
OT KM|\*|

\*\*\*\*\*  
(1, 'CHENNAI', 'COIMBATORE', 'KOVAI EXPRESS', 'MAS', 'CBE', '12:00', '20:00', '08 HR 00 MIN', 1, 502)  
(2, 'CHENNAI', 'DELHI', 'GRAND TRUNK EXPRESS', 'MAS', 'NDLS', '15:15', '15:55', '100 HR 40 MIN', 5, 2174)  
(3, 'CHENNAI', 'KANYAKUMARI', 'KANYAKUMARI EXPRESS', 'MAS', 'CAPE', '17:20', '29:55', '12 HR 35 MIN', 1, 730)  
(4, 'CHENNAI', 'KOLKATA', 'CORAMENDAL EXPRESS', 'MAS', 'KOAA', '10:15', '13:55', '27 HR 40 MIN', 4, 1660)  
(5, 'CHENNAI', 'MUMBAI', 'MS CSMT EXPRESS', 'MAS', 'CSMT', '06:20', '05:50', '23 HR 05 MIN', 3, 1270)  
(6, 'COIMBATORE', 'CHENNAI', 'TVC CHENNAI EXPRESS', 'CBE', 'MAS', '12:15', '19:40', '07 HR 25 MIN', 1, 400)  
(7, 'COIMBATORE', 'DELHI', 'KERALA EXPRESS', 'CBE', 'NDLS', '20:55', '13:15', '40 HR 20 MIN', 4, 1970)  
(8, 'COIMBATORE', 'KANYAKUMARI', 'KANYAKUMARI EXPRESS', 'CBE', 'CAPE', '1:15', '14:15', '13 HR 00 MIN', 1, 500)  
(9, 'COIMBATORE', 'KOLKATA', 'GURUDEV EXPRESS', 'CBE', 'KOAA', '10:20', '11:15', '34 HR 35 MIN', 4, 2150)  
(10, 'COIMBATORE', 'MUMBAI', 'CBE LTT EXPRESS', 'CBE', 'CSMT', '10:50', '13:45', '28 HR 55 MIN', 3, 1500)  
(11, 'DELHI', 'CHENNAI', 'GRAND TRUNK EXPRESS', 'NDLS', 'MAS', '04:10', '16:30', '36 HR 20 MIN', 4, 2174)  
(12, 'DELHI', 'COIMBATORE', 'KONGU EXPRESS', 'NDLS', 'CBE', '07:00', '06:30', '47 HR 30 MIN', 5, 2164)  
(13, 'DELHI', 'KANYAKUMARI', 'HIMSAGAR EXPRESS', 'NDLS', 'CAPE', '14:00', '23:20', '57 HR 20 MIN', 6, 2926)  
(14, 'DELHI', 'KOLKATA', 'HWH DURONTO EXPRESS', 'NDLS', 'KOAA', '12:40', '10:35', '21 HR 45 MIN', 3, 1446)  
(15, 'DELHI', 'MUMBAI', 'PUNJAB MAIL EXPRESS', 'NDLS', 'CSMT', '05:15', '07:35', '20 HR 20 MIN', 2, 1366)  
(16, 'KANYAKUMARI', 'CHENNAI', 'KANYAKUMARI EXPRESS', 'CAPE', 'MAS', '12:45', '10:50', '22 HR 05 MIN', 3, 1339)  
(17, 'KANYAKUMARI', 'COIMBATORE', 'CAPE PUNE EXPRESS', 'CAPE', 'CBE', '08:25', '21:30', '13 HR 05 MIN', 1, 513)  
(18, 'KANYAKUMARI', 'DELHI', 'HIMSAGAR EXPRESS', 'CAPE', 'NDLS', '14:15', '12:20', '100 HR 05 MIN', 6, 2882)  
(19, 'KANYAKUMARI', 'KOLKATA', 'SHALIMAR EXPRESS', 'CAPE', 'KOAA', '14:20', '10:25', '96 HR 05 MIN', 5, 2408)  
(20, 'KANYAKUMARI', 'MUMBAI', 'CBE LTT EXPRESS', 'CAPE', 'CSMT', '17:15', '14:20', '62 HR 05 MIN', 4, 1883)  
(21, 'KOLKATA', 'CHENNAI', 'COROMANDEL EXPRESS', 'KOAA', 'MAS', '15:20', '16:50', '23 HR 30 MIN', 3, 1654)  
(22, 'KOLKATA', 'COIMBATORE', 'SHM TVS SUF EXPRESS', 'KOAA', 'CBE', '23:50', '10:30', '34 HR 20 MIN', 4, 2075)  
(23, 'KOLKATA', 'DELHI', 'RAJDHANI EXPRESS', 'KOAA', 'NDLS', '14:15', '10:15', '20 HR 00 MIN', 3, 1444)  
(24, 'KOLKATA', 'KANYAKUMARI', 'KK EXPRESS', 'KOAA', 'CAPE', '13:50', '14:50', '97 HR 00 MIN', 5, 2578)  
(25, 'KOLKATA', 'MUMBAI', 'CSMT DURONTO EXPRESS', 'KOAA', 'CSMT', '12:12', '20:40', '32 HR 35 MIN', 4, 1663)  
(26, 'MUMBAI', 'CHENNAI', 'CSMT CHENNAI EXPRESS', 'CSMT', 'MAS', '12:45', '10:50', '22 HR 05 MIN', 3, 1339)  
(27, 'MUMBAI', 'COIMBATORE', 'KOVAI EXPRESS', 'CSMT', 'CBE', '20:35', '23:27', '26 HR 52 MIN', 3, 1501)  
(28, 'MUMBAI', 'DELHI', 'BDTS HW EXPRESS', 'CSMT', 'NDLS', '07:25', '12:45', '29 HR 20 MIN', 3, 1330)  
(29, 'MUMBAI', 'KANYAKUMARI', 'KK EXPRESS', 'CSMT', 'CAPE', '11:15', '14:15', '23 HR 00 MIN', 4, 1905)  
(30, 'MUMBAI', 'KOLKATA', 'HOWRAH EXPRESS', 'CSMT', 'KOAA', '17:15', '20:55', '26 HR 40 MIN', 4, 1941)

ENTER YOUR CHOICE:1

[1, 'CHENNAI', 'COIMBATORE', 'KOVAI EXPRESS', 'MAS', 'CBE', '12:00', '20:00', '08 HR 00 MIN', 1, 502]

\*\*\*\*\*

Enter total no of tickets: 2

\*\*\*\*\*

Enter your name : RAJA P

Enter your age : 48

Enter your aadhar no : 845246457824

1.MALE

2.FEMALE

Enter your choice of gender : 1

Enter your phone no : 9384729283

Enter your city name: CHENNAI

\*\*\*\*\*

Enter your name : DEEPAK  
Enter your age : 17  
Enter your aadhar no : 839583958321  
1.MALE  
2.FEMALE  
Enter your choice of gender : 1  
Enter your phone no : 8273728373  
Enter your city name: CHENNAI  
\*\*\*\*\*

#### CUSTOMER DETAILS

\*\*\*\*\*  
Enter your address: NERKUNDRAM  
Enter your state: TAMIL NADU  
Enter your pincode: 600107  
\*\*\*\*\*

PLEASE SELECT THE CHOICE OF THE COACH

\*\*\*\*\*  
(1, '1A-FIRST TIER A/C SLEEPER')  
(2, '2A-SECOND TIER A/C SLEEPER')  
(3, '3A-THIRD TIER A/C SLEEPER')  
(4, '4A-SL -NON A/C SLEEPER')  
(5, '5A-2S-SECOND SEATING')  
\*\*\*\*\*

ENTER YOUR CHOICE : 1  
[1, '1A-FIRST TIER A/C SLEEPER']  
\*\*\*\*\*

~~~~~DO YOU WANT FOOD IN TRAIN~~~~~  
~~~~~YOU SHOULD DEFINITELY WANNA TRY IT~~~~~  
1.YES  
2.NO  
Enter your choice of food do you want or not: 1

THANK YOU FOR ORDERING THE FOOD

~~~~~YOUR CHOICE OF FOOD~~~~~  
1.VEGETARIAN  
2.NON-VEGETARIAN  
Enter your choice of type of food you want: 1  
YOUR FOOD WILL BE GIVEN AT THE TIME  
YOUR TOTAL COST FOR FOOD IS: 600  
\*\*\*\*\*

YOUR TOTAL AMOUNT  
\*\*\*\*\*  
\*  
\* TOTAL NUMBER OF PASSENGERS TRAVELLING ARE : 2  
YOUR COST FOR TRAIN IS: 2002  
YOUR COST FOR FOOD IS: 600  
RESERVATION COST CHARGES: 50  
YOUR TOTAL COST FOR BOOKING TICKET IS: 2652  
\*\*\*\*\*

CREDIT/DEBIT CARD  
\*\*\*\*\*

YOUR TOTAL COST FOR BOOKING TICKET IS: 2652  
Enter your mail id : project@gmail.com  
Enter your mobile number : 9384729283  
Enter card number : 72837847384024  
Enter the name on the card : RAJA P  
Enter CVV number : 123  
\*\*\*\*\*PAYMENT SUCCESSFULLY DONE\*\*\*\*\*

\*\*\*\*\*THANK YOU DEEPAK FOR BOOKING TRAIN TICKETS\*\*\*\*\*

!!!!!!SAFE AND HAPPY JOURNEY!!!!!!

YOUR TICKET WILL BE SENT IN project@gmail.com

```

DO YOU WANT TO PREVIEW IT
1.YES
2.No
Enter your choice of preview ticket: 1
*****
*                               RAILWAY TICKET                               *
*****
*
* TOTAL NUMBER OF PASSENGERS TRAVELLING ARE : 2                               *
* 1 .NAME      = RAJA P                                                       *
*   AGE        = 48                                                            *
*   AADHAR NO  = 845246457824                                                 *
*   GENDER     = MALE                                                         *
*   PHONE NO   = 9384729283                                                  *
*   SEAT NO    = 1A 47                                                         *
*   CITY       = CHENNAI                                                      *
* 2 .NAME      = DEEPAK                                                       *
*   AGE        = 17                                                            *
*   AADHAR NO  = 839583958321                                                 *
*   GENDER     = MALE                                                         *
*   PHONE NO   = 8273728373                                                  *
*   SEAT NO    = 1A 75                                                         *
*   CITY       = CHENNAI                                                      *
*****
* DATE OF JOURNEY : 12 TH JANUARY 2023                                         *
* DEPARTURE AT   : CHENNAI                                                    *
* ARRIVAL AT     : COIMBATORE                                                 *
* EMAIL ID       : project@gmail.com                                          *
* TOTAL COST IS  : 2652                                                        *
* DEPARTURE STATION : MAS                                                       *
* ARRIVAL STATION  : CBE                                                       *
* DEPARTURE TIME   : 12:00                                                     *
* ARRIVAL TIME     : 20:00                                                     *
* TOTAL TRAVEL TIME : 08 HR 00 MIN                                           *
*
***** THANK YOU,VISIT AGAIN *****
*
***** SAFE AND HAPPY JOURNEY *****

```

## BEFORE BOOKING THE TICKET

```

mysql> SELECT * FROM CUST_DET;
Empty set (0.00 sec)

```

## AFTER BOOKING THE TICKET

```

mysql> USE RAILWAY;
Database changed
mysql> SELECT * FROM CUST_DET;
+----+-----+-----+-----+-----+-----+-----+-----+
| S_NO | NAME  | AGE  | AADHAR_NO | GENDER | PHONE_NO | SEAT_NO | CITY  |
+----+-----+-----+-----+-----+-----+-----+-----+
| 1    | RAJA P | 48   | 845246457824 | MALE   | 9384729283 | 47      | CHENNAI |
| 2    | DEEPAK | 17   | 839583958321 | MALE   | 8273728373 | 75      | CHENNAI |
+----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>

```

## 2. TICKET CANCELLING

```
ENTER THE CHOICE
~~~~~

1.YES
2.NO
DO YOU WANT TO CONTINUE : 1
*****

        MENU

*****

1.TICKET RESERVATION
2.TICKET CANCELLING
3.CHANGE IN TRAIN DETAILS
4.CHANGE IN CUSTOMER DETAILS
ENTER THE CHOICE : 2
ENTER YOUR AADHAR NUMBER : 845246457824
ENTER YOUR NAME : RAJA P
[S_NO,NAME,AGE,AADHAR_NO,GENDER,PHONE_NO,SEAT_NO,CITY]
[1, 'RAJA P', 48, 845246457824, 'MALE', 9384729283, '47', 'CHENNAI']

~~~~~ YOU TICKET HAS BEEN CANCELLED ~~~~~
```

## BEFORE CANCELLING THE TICKET

```
mysql> USE RAILWAY;
Database changed
mysql> SELECT * FROM CUST_DET;
+----+-----+-----+-----+-----+-----+-----+-----+
| S_NO | NAME   | AGE | AADHAR_NO | GENDER | PHONE_NO | SEAT_NO | CITY   |
+----+-----+-----+-----+-----+-----+-----+-----+
| 1    | RAJA P | 48  | 845246457824 | MALE   | 9384729283 | 47      | CHENNAI |
| 2    | DEEPAK | 17  | 839583958321 | MALE   | 8273728373 | 75      | CHENNAI |
+----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql>
```

## AFTER CANCELLING THE TICKET

```
mysql> SELECT * FROM CUST_DET;
+----+-----+-----+-----+-----+-----+-----+-----+
| S_NO | NAME   | AGE | AADHAR_NO | GENDER | PHONE_NO | SEAT_NO | CITY   |
+----+-----+-----+-----+-----+-----+-----+-----+
| 2    | DEEPAK | 17  | 839583958321 | MALE   | 8273728373 | 75      | CHENNAI |
+----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

# 3.CHANGE IN TRAIN DETAILS

ENTER THE CHOICE

1.YES  
2.NO  
DO YOU WANT TO CONTINUE : 1  
\*\*\*\*\*  
\*\*\*\*\*

MENU

\*\*\*\*\*  
1.TICKET RESERVATION  
2.TICKET CANCELLING  
3.CHANGE IN TRAIN DETAILS  
4.CHANGE IN CUSTOMER DETAILS  
ENTER THE CHOICE : 3

ENTER THE PASSWORD : 12345  
ENTER THE ID : 98760

S.NO|\*|DEPARTURE POINT|\*|ARRIVAL POINT|\*|TRAIN NAME|\*|DEPT STATION|\*|ARR STATION|\*|DEPT TIME|\*|ARR TIME|\*|TOT TIME|\*|TOT DAYS|\*|T  
OT KM|\*|

(1, 'CHENNAI', 'COIMBATORE', 'KOVAI EXPRESS', 'MAS', 'CBE', '12:00', '20:00', '08 HR 00 MIN', 1, 502)  
(2, 'CHENNAI', 'DELHI', 'GRAND TRUNK EXPRESS', 'MAS', 'NDLS', '15:15', '15:55', '100 HR 40 MIN', 5, 2174)  
(3, 'CHENNAI', 'KANYAKUMARI', 'KANYAKUMARI EXPRESS', 'MAS', 'CAPE', '17:20', '29:55', '12 HR 35 MIN', 1, 730)  
(4, 'CHENNAI', 'KOLKATA', 'CORAMENDAL EXPRESS', 'MAS', 'KOAA', '10:15', '13:55', '27 HR 40 MIN', 4, 1660)  
(5, 'CHENNAI', 'MUMBAI', 'MS CSMT EXPRESS', 'MAS', 'CSMT', '06:20', '05:50', '23 HR 05 MIN', 3, 1270)  
(6, 'COIMBATORE', 'CHENNAI', 'TVC CHENNAI EXPRESS', 'CBE', 'MAS', '12:15', '19:40', '07 HR 25 MIN', 1, 400)  
(7, 'COIMBATORE', 'DELHI', 'KERALA EXPRESS', 'CBE', 'NDLS', '20:55', '13:15', '40 HR 20 MIN', 4, 1970)  
(8, 'COIMBATORE', 'KANYAKUMARI', 'KANYAKUMARI EXPRESS', 'CBE', 'CAPE', '1:15', '14:15', '13 HR 00 MIN', 1, 500)  
(9, 'COIMBATORE', 'KOLKATA', 'GURUDEV EXPRESS', 'CBE', 'KOAA', '10:20', '11:15', '34 HR 35 MIN', 4, 2150)  
(10, 'COIMBATORE', 'MUMBAI', 'CBE LTT EXPRESS', 'CBE', 'CSMT', '10:50', '13:45', '28 HR 55 MIN', 3, 1500)  
(11, 'DELHI', 'CHENNAI', 'GRAND TRUNK EXPRESS', 'NDLS', 'MAS', '04:10', '16:30', '36 HR 20 MIN', 4, 2174)  
(12, 'DELHI', 'COIMBATORE', 'KONGU EXPRESS', 'NDLS', 'CBE', '07:00', '06:30', '47 HR 30 MIN', 5, 2164)  
(13, 'DELHI', 'KANYAKUMARI', 'HIMSAGAR EXPRESS', 'NDLS', 'CAPE', '14:00', '23:20', '57 HR 20 MIN', 6, 2926)  
(14, 'DELHI', 'KOLKATA', 'HWH DURGONTO EXPRESS', 'NDLS', 'KOAA', '12:40', '10:35', '21 HR 45 MIN', 3, 1446)  
(15, 'DELHI', 'MUMBAI', 'PUNJAB MAIL EXPRESS', 'NDLS', 'CSMT', '05:15', '07:35', '20 HR 20 MIN', 2, 1366)  
(16, 'KANYAKUMARI', 'CHENNAI', 'KANYAKUMARI EXPRESS', 'CAPE', 'MAS', '12:45', '10:50', '22 HR 05 MIN', 3, 1339)  
(17, 'KANYAKUMARI', 'COIMBATORE', 'CAPE PUNE EXPRESS', 'CAPE', 'CBE', '08:25', '21:30', '13 HR 05 MIN', 1, 513)  
(18, 'KANYAKUMARI', 'DELHI', 'HIMSAGAR EXPRESS', 'CAPE', 'NDLS', '14:15', '12:20', '100 HR 05 MIN', 6, 2882)  
(19, 'KANYAKUMARI', 'KOLKATA', 'SHALIMAR EXPRESS', 'CAPE', 'KOAA', '14:20', '10:25', '96 HR 05 MIN', 5, 2408)  
(20, 'KANYAKUMARI', 'MUMBAI', 'CBE LTT EXPRESS', 'CAPE', 'CSMT', '17:15', '14:20', '62 HR 05 MIN', 4, 1883)  
(21, 'KOLKATA', 'CHENNAI', 'COROMANDEL EXPRESS', 'KOAA', 'MAS', '15:20', '16:50', '23 HR 30 MIN', 3, 1654)  
(22, 'KOLKATA', 'COIMBATORE', 'SHM TVS SUF EXPRESS', 'KOAA', 'CBE', '23:50', '10:30', '34 HR 20 MIN', 4, 2075)  
(23, 'KOLKATA', 'DELHI', 'RAJDHANI EXPRESS', 'KOAA', 'NDLS', '14:15', '10:15', '20 HR 00 MIN', 3, 1444)  
(24, 'KOLKATA', 'KANYAKUMARI', 'KK EXPRESS', 'KOAA', 'CAPE', '13:50', '14:50', '97 HR 00 MIN', 5, 2578)  
(25, 'KOLKATA', 'MUMBAI', 'CSMT DURGONTO EXPRESS', 'KOAA', 'CSMT', '12:12', '20:40', '32 HR 35 MIN', 4, 1663)  
(26, 'MUMBAI', 'CHENNAI', 'CSMT CHENNAI EXPRESS', 'CSMT', 'MAS', '12:45', '10:50', '22 HR 05 MIN', 3, 1339)  
(27, 'MUMBAI', 'COIMBATORE', 'KOVAI EXPRESS', 'CSMT', 'CBE', '20:35', '23:27', '26 HR 52 MIN', 3, 1501)  
(28, 'MUMBAI', 'DELHI', 'BDTS HW EXPRESS', 'CSMT', 'NDLS', '07:25', '12:45', '29 HR 20 MIN', 3, 1330)  
(29, 'MUMBAI', 'KANYAKUMARI', 'KK EXPRESS', 'CSMT', 'CAPE', '11:15', '14:15', '23 HR 00 MIN', 4, 1905)  
(30, 'MUMBAI', 'KOLKATA', 'HOWRAH EXPRESS', 'CSMT', 'KOAA', '17:15', '20:55', '26 HR 40 MIN', 4, 1941)

ENTER THE QUERY : UPDATE TRAIN\_DET SET TOT\_KM=504 WHERE S\_NO=1

S.NO|\*|DEPARTURE POINT|\*|ARRIVAL POINT|\*|TRAIN NAME|\*|DEPT STATION|\*|ARR STATION|\*|DEPT TIME|\*|ARR TIME|\*|TOT TIME|\*|TOT DAYS|\*|  
S.NO|\*|DEPARTURE POINT|\*|ARRIVAL POINT|\*|TRAIN NAME|\*|DEPT STATION|\*|ARR STATION|\*|DEPT TIME|\*|ARR TIME|\*|TOT TIME|\*|TOT DAYS|\*|  
(1, 'CHENNAI', 'COIMBATORE', 'KOVAI EXPRESS', 'MAS', 'CBE', '12:00', '20:00', '08 HR 00 MIN', 1, 504)  
(2, 'CHENNAI', 'DELHI', 'GRAND TRUNK EXPRESS', 'MAS', 'NDLS', '15:15', '15:55', '100 HR 40 MIN', 5, 2174)  
(3, 'CHENNAI', 'KANYAKUMARI', 'KANYAKUMARI EXPRESS', 'MAS', 'CAPE', '17:20', '29:55', '12 HR 35 MIN', 1, 730)  
(4, 'CHENNAI', 'KOLKATA', 'CORAMENDAL EXPRESS', 'MAS', 'KOAA', '10:15', '13:55', '27 HR 40 MIN', 4, 1660)  
(5, 'CHENNAI', 'MUMBAI', 'MS CSMT EXPRESS', 'MAS', 'CSMT', '06:20', '05:50', '23 HR 05 MIN', 3, 1270)  
(6, 'COIMBATORE', 'CHENNAI', 'TVC CHENNAI EXPRESS', 'CBE', 'MAS', '12:15', '19:40', '07 HR 25 MIN', 1, 400)  
(7, 'COIMBATORE', 'DELHI', 'KERALA EXPRESS', 'CBE', 'NDLS', '20:55', '13:15', '40 HR 20 MIN', 4, 1970)  
(8, 'COIMBATORE', 'KANYAKUMARI', 'KANYAKUMARI EXPRESS', 'CBE', 'CAPE', '1:15', '14:15', '13 HR 00 MIN', 1, 500)  
(9, 'COIMBATORE', 'KOLKATA', 'GURUDEV EXPRESS', 'CBE', 'KOAA', '10:20', '11:15', '34 HR 35 MIN', 4, 2150)  
(10, 'COIMBATORE', 'MUMBAI', 'CBE LTT EXPRESS', 'CBE', 'CSMT', '10:50', '13:45', '28 HR 55 MIN', 3, 1500)  
(11, 'DELHI', 'CHENNAI', 'GRAND TRUNK EXPRESS', 'NDLS', 'MAS', '04:10', '16:30', '36 HR 20 MIN', 4, 2174)  
(12, 'DELHI', 'COIMBATORE', 'KONGU EXPRESS', 'NDLS', 'CBE', '07:00', '06:30', '47 HR 30 MIN', 5, 2164)  
(13, 'DELHI', 'KANYAKUMARI', 'HIMSAGAR EXPRESS', 'NDLS', 'CAPE', '14:00', '23:20', '57 HR 20 MIN', 6, 2926)  
(14, 'DELHI', 'KOLKATA', 'HWH DURGONTO EXPRESS', 'NDLS', 'KOAA', '12:40', '10:35', '21 HR 45 MIN', 3, 1446)  
(15, 'DELHI', 'MUMBAI', 'PUNJAB MAIL EXPRESS', 'NDLS', 'CSMT', '05:15', '07:35', '20 HR 20 MIN', 2, 1366)  
(16, 'KANYAKUMARI', 'CHENNAI', 'KANYAKUMARI EXPRESS', 'CAPE', 'MAS', '12:45', '10:50', '22 HR 05 MIN', 3, 1339)  
(17, 'KANYAKUMARI', 'COIMBATORE', 'CAPE PUNE EXPRESS', 'CAPE', 'CBE', '08:25', '21:30', '13 HR 05 MIN', 1, 513)  
(18, 'KANYAKUMARI', 'DELHI', 'HIMSAGAR EXPRESS', 'CAPE', 'NDLS', '14:15', '12:20', '100 HR 05 MIN', 6, 2882)  
(19, 'KANYAKUMARI', 'KOLKATA', 'SHALIMAR EXPRESS', 'CAPE', 'KOAA', '14:20', '10:25', '96 HR 05 MIN', 5, 2408)  
(20, 'KANYAKUMARI', 'MUMBAI', 'CBE LTT EXPRESS', 'CAPE', 'CSMT', '17:15', '14:20', '62 HR 05 MIN', 4, 1883)  
(21, 'KOLKATA', 'CHENNAI', 'COROMANDEL EXPRESS', 'KOAA', 'MAS', '15:20', '16:50', '23 HR 30 MIN', 3, 1654)  
(22, 'KOLKATA', 'COIMBATORE', 'SHM TVS SUF EXPRESS', 'KOAA', 'CBE', '23:50', '10:30', '34 HR 20 MIN', 4, 2075)  
(23, 'KOLKATA', 'DELHI', 'RAJDHANI EXPRESS', 'KOAA', 'NDLS', '14:15', '10:15', '20 HR 00 MIN', 3, 1444)  
(24, 'KOLKATA', 'KANYAKUMARI', 'KK EXPRESS', 'KOAA', 'CAPE', '13:50', '14:50', '97 HR 00 MIN', 5, 2578)  
(25, 'KOLKATA', 'MUMBAI', 'CSMT DURGONTO EXPRESS', 'KOAA', 'CSMT', '12:12', '20:40', '32 HR 35 MIN', 4, 1663)  
(26, 'MUMBAI', 'CHENNAI', 'CSMT CHENNAI EXPRESS', 'CSMT', 'MAS', '12:45', '10:50', '22 HR 05 MIN', 3, 1339)  
(27, 'MUMBAI', 'COIMBATORE', 'KOVAI EXPRESS', 'CSMT', 'CBE', '20:35', '23:27', '26 HR 52 MIN', 3, 1501)  
(28, 'MUMBAI', 'DELHI', 'BDTS HW EXPRESS', 'CSMT', 'NDLS', '07:25', '12:45', '29 HR 20 MIN', 3, 1330)  
(29, 'MUMBAI', 'KANYAKUMARI', 'KK EXPRESS', 'CSMT', 'CAPE', '11:15', '14:15', '23 HR 00 MIN', 4, 1905)  
(30, 'MUMBAI', 'KOLKATA', 'HOWRAH EXPRESS', 'CSMT', 'KOAA', '17:15', '20:55', '26 HR 40 MIN', 4, 1941)



## BEFORE CHANGE IN THE TRAIN DET

```
mysql> SELECT * FROM TRAIN_DET ORDER BY S_NO;
```

| S_NO | DEPT_PT     | ARR_PT      | TRAIN_NAME            | DEPT_ST | ARR_ST | DEP_TIME | ARR_TIME | TOT_TRAV_TIME | TOT_DAYS | TOT_KM |
|------|-------------|-------------|-----------------------|---------|--------|----------|----------|---------------|----------|--------|
| 1    | CHENNAI     | COIMBATORE  | KOVAI EXPRESS         | MAS     | CBE    | 12:00    | 20:00    | 08 HR 00 MIN  | 1        | 502    |
| 2    | CHENNAI     | DELHI       | GRAND TRUNK EXPRESS   | MAS     | NDLS   | 15:15    | 15:55    | 100 HR 40 MIN | 5        | 2174   |
| 3    | CHENNAI     | KANYAKUMARI | KANYAKUMARI EXPRESS   | MAS     | CAPE   | 17:20    | 29:55    | 12 HR 35 MIN  | 1        | 730    |
| 4    | CHENNAI     | KOLKATA     | CORAMENDAL EXPRESS    | MAS     | KOAA   | 10:15    | 13:55    | 27 HR 40 MIN  | 4        | 1660   |
| 5    | CHENNAI     | MUMBAI      | MS CSMT EXPRESS       | MAS     | CSMT   | 06:20    | 05:50    | 23 HR 05 MIN  | 3        | 1270   |
| 6    | COIMBATORE  | CHENNAI     | TVC CHENNAI EXPRESS   | CBE     | MAS    | 12:15    | 19:40    | 07 HR 25 MIN  | 1        | 400    |
| 7    | COIMBATORE  | DELHI       | KERALA EXPRESS        | CBE     | NDLS   | 20:55    | 13:15    | 40 HR 20 MIN  | 4        | 1970   |
| 8    | COIMBATORE  | KANYAKUMARI | KANYAKUMARI EXPRESS   | CBE     | CAPE   | 1:15     | 14:15    | 13 HR 00 MIN  | 1        | 500    |
| 9    | COIMBATORE  | KOLKATA     | GURUDEV EXPRESS       | CBE     | KOAA   | 10:20    | 11:15    | 34 HR 35 MIN  | 4        | 2150   |
| 10   | COIMBATORE  | MUMBAI      | CBE LTT EXPRESS       | CBE     | CSMT   | 10:50    | 13:45    | 28 HR 55 MIN  | 3        | 1500   |
| 11   | DELHI       | CHENNAI     | GRAND TRUNK EXPRESS   | NDLS    | MAS    | 04:10    | 16:30    | 36 HR 20 MIN  | 4        | 2174   |
| 12   | DELHI       | COIMBATORE  | KONGU EXPRESS         | NDLS    | CBE    | 07:00    | 06:30    | 47 HR 30 MIN  | 5        | 2164   |
| 13   | DELHI       | KANYAKUMARI | HIMSAGAR EXPRESS      | NDLS    | CAPE   | 14:00    | 23:20    | 57 HR 20 MIN  | 6        | 2926   |
| 14   | DELHI       | KOLKATA     | HHW DURGONTO EXPRESS  | NDLS    | KOAA   | 12:40    | 10:35    | 21 HR 45 MIN  | 3        | 1446   |
| 15   | DELHI       | MUMBAI      | PUNJAB MAIL EXPRESS   | NDLS    | CSMT   | 05:15    | 07:35    | 20 HR 20 MIN  | 2        | 1366   |
| 16   | KANYAKUMARI | CHENNAI     | KANYAKUMARI EXPRESS   | CAPE    | MAS    | 12:45    | 10:50    | 22 HR 05 MIN  | 3        | 1339   |
| 17   | KANYAKUMARI | COIMBATORE  | CAPE PUNE EXPRESS     | CAPE    | CBE    | 08:25    | 21:30    | 13 HR 05 MIN  | 1        | 513    |
| 18   | KANYAKUMARI | DELHI       | HIMSAGAR EXPRESS      | CAPE    | NDLS   | 14:15    | 12:20    | 100 HR 05 MIN | 6        | 2882   |
| 19   | KANYAKUMARI | KOLKATA     | SHALIMAR EXPRESS      | CAPE    | KOAA   | 14:20    | 10:25    | 96 HR 05 MIN  | 5        | 2408   |
| 20   | KANYAKUMARI | MUMBAI      | CBE LTT EXPRESS       | CAPE    | CSMT   | 17:15    | 14:20    | 62 HR 05 MIN  | 4        | 1883   |
| 21   | KOLKATA     | CHENNAI     | COROMANDEL EXPRESS    | KOAA    | MAS    | 15:20    | 16:50    | 23 HR 30 MIN  | 3        | 1654   |
| 22   | KOLKATA     | COIMBATORE  | SHM TVS SUF EXPRESS   | KOAA    | CBE    | 23:50    | 10:30    | 34 HR 20 MIN  | 4        | 2075   |
| 23   | KOLKATA     | DELHI       | RAJDHANI EXPRESS      | KOAA    | NDLS   | 14:15    | 10:15    | 20 HR 00 MIN  | 3        | 1444   |
| 24   | KOLKATA     | KANYAKUMARI | KK EXPRESS            | KOAA    | CAPE   | 13:50    | 14:50    | 97 HR 00 MIN  | 5        | 2578   |
| 25   | KOLKATA     | MUMBAI      | CSMT DURGONTO EXPRESS | KOAA    | CSMT   | 12:12    | 20:40    | 32 HR 35 MIN  | 4        | 1663   |
| 26   | MUMBAI      | CHENNAI     | CSMT CHENNAI EXPRESS  | CSMT    | MAS    | 12:45    | 10:50    | 22 HR 05 MIN  | 3        | 1339   |
| 27   | MUMBAI      | COIMBATORE  | KOVAI EXPRESS         | CSMT    | CBE    | 20:35    | 23:27    | 26 HR 52 MIN  | 3        | 1501   |
| 28   | MUMBAI      | DELHI       | BDTS HW EXPRESS       | CSMT    | NDLS   | 07:25    | 12:45    | 29 HR 20 MIN  | 3        | 1330   |
| 29   | MUMBAI      | KANYAKUMARI | KK EXPRESS            | CSMT    | CAPE   | 11:15    | 14:15    | 23 HR 00 MIN  | 4        | 1905   |
| 30   | MUMBAI      | KOLKATA     | HOWRAH EXPRESS        | CSMT    | KOAA   | 17:15    | 20:55    | 26 HR 40 MIN  | 4        | 1941   |

30 rows in set (0.00 sec)

## AFTER CHANGE IN THE TRAIN DET

```
mysql> SELECT * FROM TRAIN_DET;
```

| S_NO | DEPT_PT     | ARR_PT      | TRAIN_NAME            | DEPT_ST | ARR_ST | DEP_TIME | ARR_TIME | TOT_TRAV_TIME | TOT_DAYS | TOT_KM |
|------|-------------|-------------|-----------------------|---------|--------|----------|----------|---------------|----------|--------|
| 1    | CHENNAI     | COIMBATORE  | KOVAI EXPRESS         | MAS     | CBE    | 12:00    | 20:00    | 08 HR 00 MIN  | 1        | 504    |
| 2    | CHENNAI     | DELHI       | GRAND TRUNK EXPRESS   | MAS     | NDLS   | 15:15    | 15:55    | 100 HR 40 MIN | 5        | 2174   |
| 3    | CHENNAI     | KANYAKUMARI | KANYAKUMARI EXPRESS   | MAS     | CAPE   | 17:20    | 29:55    | 12 HR 35 MIN  | 1        | 730    |
| 4    | CHENNAI     | KOLKATA     | CORAMENDAL EXPRESS    | MAS     | KOAA   | 10:15    | 13:55    | 27 HR 40 MIN  | 4        | 1660   |
| 5    | CHENNAI     | MUMBAI      | MS CSMT EXPRESS       | MAS     | CSMT   | 06:20    | 05:50    | 23 HR 05 MIN  | 3        | 1270   |
| 6    | COIMBATORE  | CHENNAI     | TVC CHENNAI EXPRESS   | CBE     | MAS    | 12:15    | 19:40    | 07 HR 25 MIN  | 1        | 400    |
| 7    | COIMBATORE  | DELHI       | KERALA EXPRESS        | CBE     | NDLS   | 20:55    | 13:15    | 40 HR 20 MIN  | 4        | 1970   |
| 8    | COIMBATORE  | KANYAKUMARI | KANYAKUMARI EXPRESS   | CBE     | CAPE   | 1:15     | 14:15    | 13 HR 00 MIN  | 1        | 500    |
| 9    | COIMBATORE  | KOLKATA     | GURUDEV EXPRESS       | CBE     | KOAA   | 10:20    | 11:15    | 34 HR 35 MIN  | 4        | 2150   |
| 10   | COIMBATORE  | MUMBAI      | CBE LTT EXPRESS       | CBE     | CSMT   | 10:50    | 13:45    | 28 HR 55 MIN  | 3        | 1500   |
| 11   | DELHI       | CHENNAI     | GRAND TRUNK EXPRESS   | NDLS    | MAS    | 04:10    | 16:30    | 36 HR 20 MIN  | 4        | 2174   |
| 12   | DELHI       | COIMBATORE  | KONGU EXPRESS         | NDLS    | CBE    | 07:00    | 06:30    | 47 HR 30 MIN  | 5        | 2164   |
| 13   | DELHI       | KANYAKUMARI | HIMSAGAR EXPRESS      | NDLS    | CAPE   | 14:00    | 23:20    | 57 HR 20 MIN  | 6        | 2926   |
| 14   | DELHI       | KOLKATA     | HHW DURGONTO EXPRESS  | NDLS    | KOAA   | 12:40    | 10:35    | 21 HR 45 MIN  | 3        | 1446   |
| 15   | DELHI       | MUMBAI      | PUNJAB MAIL EXPRESS   | NDLS    | CSMT   | 05:15    | 07:35    | 20 HR 20 MIN  | 2        | 1366   |
| 17   | KANYAKUMARI | COIMBATORE  | CAPE PUNE EXPRESS     | CAPE    | CBE    | 08:25    | 21:30    | 13 HR 05 MIN  | 1        | 513    |
| 18   | KANYAKUMARI | DELHI       | HIMSAGAR EXPRESS      | CAPE    | NDLS   | 14:15    | 12:20    | 100 HR 05 MIN | 6        | 2882   |
| 19   | KANYAKUMARI | KOLKATA     | SHALIMAR EXPRESS      | CAPE    | KOAA   | 14:20    | 10:25    | 96 HR 05 MIN  | 5        | 2408   |
| 20   | KANYAKUMARI | MUMBAI      | CBE LTT EXPRESS       | CAPE    | CSMT   | 17:15    | 14:20    | 62 HR 05 MIN  | 4        | 1883   |
| 21   | KOLKATA     | CHENNAI     | COROMANDEL EXPRESS    | KOAA    | MAS    | 15:20    | 16:50    | 23 HR 30 MIN  | 3        | 1654   |
| 22   | KOLKATA     | COIMBATORE  | SHM TVS SUF EXPRESS   | KOAA    | CBE    | 23:50    | 10:30    | 34 HR 20 MIN  | 4        | 2075   |
| 23   | KOLKATA     | DELHI       | RAJDHANI EXPRESS      | KOAA    | NDLS   | 14:15    | 10:15    | 20 HR 00 MIN  | 3        | 1444   |
| 24   | KOLKATA     | KANYAKUMARI | KK EXPRESS            | KOAA    | CAPE   | 13:50    | 14:50    | 97 HR 00 MIN  | 5        | 2578   |
| 25   | KOLKATA     | MUMBAI      | CSMT DURGONTO EXPRESS | KOAA    | CSMT   | 12:12    | 20:40    | 32 HR 35 MIN  | 4        | 1663   |
| 16   | KANYAKUMARI | CHENNAI     | KANYAKUMARI EXPRESS   | CAPE    | MAS    | 12:45    | 10:50    | 22 HR 05 MIN  | 3        | 1339   |
| 26   | MUMBAI      | CHENNAI     | CSMT CHENNAI EXPRESS  | CSMT    | MAS    | 12:45    | 10:50    | 22 HR 05 MIN  | 3        | 1339   |
| 27   | MUMBAI      | COIMBATORE  | KOVAI EXPRESS         | CSMT    | CBE    | 20:35    | 23:27    | 26 HR 52 MIN  | 3        | 1501   |
| 28   | MUMBAI      | DELHI       | BDTS HW EXPRESS       | CSMT    | NDLS   | 07:25    | 12:45    | 29 HR 20 MIN  | 3        | 1330   |
| 29   | MUMBAI      | KANYAKUMARI | KK EXPRESS            | CSMT    | CAPE   | 11:15    | 14:15    | 23 HR 00 MIN  | 4        | 1905   |
| 30   | MUMBAI      | KOLKATA     | HOWRAH EXPRESS        | CSMT    | KOAA   | 17:15    | 20:55    | 26 HR 40 MIN  | 4        | 1941   |

30 rows in set (0.00 sec)

## **4.CHANGE IN THE CUST DET**

ENTER THE CHOICE  
~~~~~

1.YES

2.NO

DO YOU WANT TO CONTINUE : 1

\*\*\*\*\*

MENU

\*\*\*\*\*

1.TICKET RESERVATION

2.TICKET CANCELLING

3.CHANGE IN TRAIN DETAILS

4.CHANGE IN CUSTOMER DETAILS

ENTER THE CHOICE : 4

ENTER THE PASSWORD : 12345

ENTER THE ID : 98760

S.NO|\*|NAME|\*|AGE|\*|AADHAR NO|\*|GENDER|\*|PHONE NUMBER|\*|SEAT NUMBER|\*|CITY|\*|

(2, 'DEEPAK', 17, 839583958321, 'MALE', 8273728373, '75', 'CHENNAI')

ENTER THE QUERY : UPDATE CUST\_DET SET S\_NO=1 WHERE S\_NO=2

S.NO|\*|NAME|\*|AGE|\*|AADHAR NO|\*|GENDER|\*|PHONE NUMBER|\*|SEAT NUMBER|\*|CITY|\*|

(1, 'DEEPAK', 17, 839583958321, 'MALE', 8273728373, '75', 'CHENNAI')

ENTER THE CHOICE  
~~~~~

1.YES

2.NO

DO YOU WANT TO CONTINUE : |

## **BEFORE CHANGE IN THE CUST DET**

```
mysql> SELECT * FROM CUST_DET;
```

| S_NO | NAME   | AGE | AADHAR_NO    | GENDER | PHONE_NO   | SEAT_NO | CITY    |
|------|--------|-----|--------------|--------|------------|---------|---------|
| 2    | DEEPAK | 17  | 839583958321 | MALE   | 8273728373 | 75      | CHENNAI |

1 row in set (0.00 sec)

## **AFTER CHANGE IN THE CUST DET**

```
mysql> SELECT * FROM CUST_DET;
```

| S_NO | NAME   | AGE | AADHAR_NO    | GENDER | PHONE_NO   | SEAT_NO | CITY    |
|------|--------|-----|--------------|--------|------------|---------|---------|
| 1    | DEEPAK | 17  | 839583958321 | MALE   | 8273728373 | 75      | CHENNAI |

1 row in set (0.00 sec)

```
mysql>
```

## 4.EXITING

\*\*\*\*\*

MENU

\*\*\*\*\*

1.TICKET RESERVATION  
2.TICKET CANCELLING  
3.CHANGE IN TRAIN DETAILS  
4.CHANGE IN CUSTOMER DETAILS  
ENTER THE CHOICE : 4

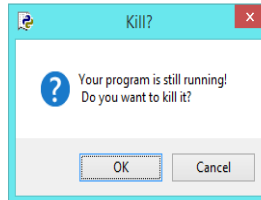
ENTER THE PASSWORD : 12345  
ENTER THE ID : 98760

S.NO|\*|NAME|\*|AGE|\*|AADHAR NO|\*|GENDER|\*|PHONE NUMBER|\*|SEAT NUMBER|\*|CITY|\*|  
(2, 'DEEPAK', 17, 839583958321, 'MALE', 8273728373, '75', 'CHENNAI')  
ENTER THE QUERY : UPDATE CUST\_DET SET S\_NO=1 WHERE S\_NO=2

S.NO|\*|NAME|\*|AGE|\*|AADHAR NO|\*|GENDER|\*|PHONE NUMBER|\*|SEAT NUMBER|\*|CITY|\*|  
(1, 'DEEPAK', 17, 839583958321, 'MALE', 8273728373, '75', 'CHENNAI')

ENTER THE CHOICE  
~~~~~

1.YES  
2.NO  
DO YOU WANT TO CONTINUE : 2



# **TOOLS AND TECHNOLOGIES USED**

## **HARDWARE REQUIREMENT**

- |                       |   |                     |
|-----------------------|---|---------------------|
| 1. OPEARTING SYSTEM   | : | Windows 7 and Above |
| 2. PROCESSOR          | : | Any Processor       |
| 3.RAM                 | : | 4GB                 |
| 4.HARD DISK           | : | 300MB or Above      |
| 5. MONITOR            |   |                     |
| 6.KEY BOARD AND MOUSE |   |                     |

## **SOFTWARE REQUIREMENT**

- Windows OS
- Python
- MySQL

# DATA STRUCTURES

## STRUCTURE

*TRAIN\_DET:*

```
mysql> DESC TRAIN_DET;
```

Field	Type	Null	Key	Default	Extra
S_NO	bigint(20)	YES		NULL	
DEPT_PT	varchar(100)	YES		NULL	
ARR_PT	varchar(100)	YES		NULL	
TRAIN_NAME	varchar(100)	YES		NULL	
DEPT_ST	varchar(20)	YES		NULL	
ARR_ST	varchar(20)	YES		NULL	
DEP_TIME	varchar(20)	YES		NULL	
ARR_TIME	varchar(20)	YES		NULL	
TOT_TRAV_TIME	varchar(20)	YES		NULL	
TOT_DAYS	int(10)	YES		NULL	
TOT_KM	bigint(20)	YES		NULL	

11 rows in set (0.00 sec)

```
mysql> _
```

*CUST\_DET:*

```
mysql> DESC CUST_DET;
```

Field	Type	Null	Key	Default	Extra
S_NO	int(10)	YES		NULL	
NAME	varchar(100)	YES		NULL	
AGE	int(10)	YES		NULL	
AADHAR_NO	bigint(20)	YES		NULL	
GENDER	varchar(50)	YES		NULL	
PHONE_NO	bigint(20)	YES		NULL	
SEAT_NO	varchar(50)	YES		NULL	
CITY	varchar(100)	YES		NULL	

8 rows in set (0.00 sec)

```
mysql> _
```

## COACH\_DET:

```
mysql> DESC COACH_DET;
```

Field	Type	Null	Key	Default	Extra
S_NO	bigint(20)	YES		NULL	
COACH_TYPE	varchar(100)	YES		NULL	

```
2 rows in set (0.00 sec)
```

```
mysql>
```

## TABLE:

## TRAIN\_DET:

```
mysql> SELECT * FROM TRAIN_DET ORDER BY S_NO;
```

S_NO	DEPT_PT	ARR_PT	TRAIN_NAME	DEPT_ST	ARR_ST	DEP_TIME	ARR_TIME	TOT_TRAV_TIME	TOT_DAYS	TOT_KM
1	CHENNAI	COIMBATORE	KOVAI EXPRESS	MAS	CBE	12:00	20:00	08 HR 00 MIN	1	502
2	CHENNAI	DELHI	GRAND TRUNK EXPRESS	MAS	NDLS	15:15	15:55	100 HR 40 MIN	5	2174
3	CHENNAI	KANYAKUMARI	KANYAKUMARI EXPRESS	MAS	CAPE	17:20	29:55	12 HR 35 MIN	1	730
4	CHENNAI	KOLKATA	CORAMENDAL EXPRESS	MAS	KOAA	10:15	13:55	27 HR 40 MIN	4	1660
5	CHENNAI	MUMBAI	MS CSMT EXPRESS	MAS	CSMT	06:20	05:50	23 HR 05 MIN	3	1270
6	COIMBATORE	CHENNAI	TVC CHENNAI EXPRESS	CBE	MAS	12:15	19:40	07 HR 25 MIN	1	400
7	COIMBATORE	DELHI	KERALA EXPRESS	CBE	NDLS	20:55	13:15	40 HR 20 MIN	4	1970
8	COIMBATORE	KANYAKUMARI	KANYAKUMARI EXPRESS	CBE	CAPE	1:15	14:15	13 HR 00 MIN	1	500
9	COIMBATORE	KOLKATA	GURUDEV EXPRESS	CBE	KOAA	10:20	11:15	34 HR 35 MIN	4	2150
10	COIMBATORE	MUMBAI	CBE LTT EXPRESS	CBE	CSMT	10:50	13:45	28 HR 55 MIN	3	1500
11	DELHI	CHENNAI	GRAND TRUNK EXPRESS	NDLS	MAS	04:10	16:30	36 HR 20 MIN	4	2174
12	DELHI	COIMBATORE	KONGU EXPRESS	NDLS	CBE	07:00	06:30	47 HR 30 MIN	5	2164
13	DELHI	KANYAKUMARI	HIMSAGAR EXPRESS	NDLS	CAPE	14:00	23:20	57 HR 20 MIN	6	2926
14	DELHI	KOLKATA	HWY DURGONTO EXPRESS	NDLS	KOAA	12:40	10:35	21 HR 45 MIN	3	1446
15	DELHI	MUMBAI	PUNJAB MAIL EXPRESS	NDLS	CSMT	05:15	07:35	20 HR 20 MIN	2	1366
16	KANYAKUMARI	CHENNAI	KANYAKUMARI EXPRESS	CAPE	MAS	12:45	10:50	22 HR 05 MIN	3	1339
17	KANYAKUMARI	COIMBATORE	CAPE PUNE EXPRESS	CAPE	CBE	08:25	21:30	13 HR 05 MIN	1	513
18	KANYAKUMARI	DELHI	HIMSAGAR EXPRESS	CAPE	NDLS	14:15	12:20	100 HR 05 MIN	6	2882
19	KANYAKUMARI	KOLKATA	SHALIMAR EXPRESS	CAPE	KOAA	14:20	10:25	96 HR 05 MIN	5	2408
20	KANYAKUMARI	MUMBAI	CBE LTT EXPRESS	CAPE	CSMT	17:15	14:20	62 HR 05 MIN	4	1883
21	KOLKATA	CHENNAI	COROMANDEL EXPRESS	KOAA	MAS	15:20	16:50	23 HR 30 MIN	3	1654
22	KOLKATA	COIMBATORE	SHM TVS SUF EXPRESS	KOAA	CBE	23:50	10:30	34 HR 20 MIN	4	2075
23	KOLKATA	DELHI	RAJDHANI EXPRESS	KOAA	NDLS	14:15	10:15	20 HR 00 MIN	3	1444
24	KOLKATA	KANYAKUMARI	KK EXPRESS	KOAA	CAPE	13:50	14:50	97 HR 00 MIN	5	2578
25	KOLKATA	MUMBAI	CSMT DURGONTO EXPRESS	KOAA	CSMT	12:12	20:40	32 HR 35 MIN	4	1663
26	MUMBAI	CHENNAI	CSMT CHENNAI EXPRESS	CSMT	MAS	12:45	10:50	22 HR 05 MIN	3	1339
27	MUMBAI	COIMBATORE	KOVAI EXPRESS	CSMT	CBE	20:35	23:27	26 HR 52 MIN	3	1501
28	MUMBAI	DELHI	BDTS HW EXPRESS	CSMT	NDLS	07:25	12:45	29 HR 20 MIN	3	1330
29	MUMBAI	KANYAKUMARI	KK EXPRESS	CSMT	CAPE	11:15	14:15	23 HR 00 MIN	4	1905
30	MUMBAI	KOLKATA	HOWRAH EXPRESS	CSMT	KOAA	17:15	20:55	26 HR 40 MIN	4	1941

```
30 rows in set (0.00 sec)
```

```
mysql>
```

## *CUST\_DET:*

```
mysql> SELECT * FROM CUST_DET;
+-----+-----+-----+-----+-----+-----+-----+-----+
| S_NO | NAME   | AGE | AADHAR_NO | GENDER | PHONE_NO | SEAT_NO | CITY   |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1    | DEEPAK | 17  | 987236721227 | MALE   | 9876254542 | 77      | CHENNAI |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>
```

## *COACH\_DET:*

```
mysql> SELECT * FROM COACH_DET;
+-----+-----+
| S_NO | COACH_TYPE |
+-----+-----+
| 1    | 1A-FIRST TIER A/C SLEEPER |
| 2    | 2A-SECOND TIER A/C SLEEPER |
| 3    | 3A-THIRD TIER A/C SLEEPER |
| 4    | 4A-SL -NON A/C SLEEPER |
| 5    | 5A-2S-SECOND SEATING |
+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

## **CONCLUSION**

Thereby, we conclude that this project has not helped the common citizen for making reservations for their Railway ticket saving their time, but also helped many existing and upcoming registration which take up bookings for the Railway ticket. The work has become fully automated and any information regarding the booking or the booking, itself can be done by clicking a single button at your hands rather than standing in queues and waiting for your turn. User friendliness is a must that is the user must get the details without complicated searching procedures.



# **BIBLIOGRAPHY**

- ✓ Computer Science with Python -Class XII By: Sumita Arora
- ✓ Computer Science NCERT Book
- ✓ Website: <https://pythonworld.in/practical-project/project-list/>