# ONDUTER SCIENCE PROJECT 2020-21



- DEBARGHYA JODDAR

### CERTIFICATION

This is to certify that the project entitled:

"Railway Reservation System"

is a record of bonafide work carried out by:

Debarghya Joddar (12-Q)

in partial fulfilment of the requirements in COMPUTER SCIENCE prescribed by CBSE for CBSE BOARD 2020-2021 in the school

#### **DELHI PUBLIC SCHOOL RUBY PARK**

	DATE	
INTERNAL EXAMINER		EXTERNAL EXAMINER

## <u>ACKNOWLEDGEMENT</u>

I gratefully acknowledge my sincere thanks to my Computer Science Teacher Mr. Anirban Sinha for his remarkable guidance and supervision throughout the project work. I am also utmost indebted to all my batch mates for their encouragement, help, suggestion and their readily helpful service in the successful completion of this project.

I wish to express my deep gratitude and sincere thanks to the Principal, <u>Mrs.</u>

<u>Joyoti Chaudhuri</u>, <u>Delhi Public School Ruby Park</u> for her encouragement and for all the facilities that she provided for this project work.

## **SYNOPSIS:**

#### Aim of the Experiment:

The aim of the experiment is to make a <u>Railway Reservation System</u> using <u>Python programming language</u> and <u>MySQL Database</u> and the program will be able to perform certain functions which are available in real-life Railway Reservation Systems

#### *Contents:*

In this program we have a virtual system of a real railway reservation portal. The program can perform several tasks related to railway reservation. The user can select from the functions below and use the system accordingly.

- Login
  - I. View Account
  - II. Alter Account
  - III. View Bookings
  - IV. Manage Bookings
  - V. New Booking
  - VI. Logout
- Signup
- Exit

This railway reservation system has been developed using:

- Python compiler
- MySQL (back-end database)
- The program and the database have been linked together using <u>Python-MySQL Connector</u>.

The reservation system will be able to cater to one user at a time. The user will be required to login if he/she has an account or can sign up. Then he/she can perform the above mentioned tasks without hindrance

## HARDWARE/SOFTWARE REQUIREMENTS

OS: Windows 10 Pro 64-bit (10.0, Build 19041)

Processor: Intel(R) Core(TM) i5-9400F CPU @ 2.90GHz (6 CPUs), ~2.9GHz

Memory: 8192MB RAM

**DirectX Version:** DirectX 12

## **CONTRIBUTIONS**

<u>Debarghya Joddar:</u> database creation, interactive discussions, ideas, programming.

<u>Rohan Priyadarshi:</u> Database Creation, interactive discussions, ideas.

Rajarshi Ghosh: Database Creation, interactive discussions, ideas.

## TABLE DESCRIPTIONS:

mysql> use anan Database change mysql> show tab	d les;						
+   Tables_in_ana	nd_railwa		ices				
account   bookings   trains							
+3 rows in set (			+				
mysql> desc acc							
•	Type	i	Null	Key	Default	t   Extra	
USERCODE USERPASSWORD USERNAME	int	r(255)	NO     NO	PRI			†   
+3 rows in set ( mysql> desc boo	0.04 sec		+	+		+	+
+   Field		+   Type				   Default	
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Field	Туре	Null		Default	
PNR	int	NO	PRI	NULL	
Name	varchar(50)	YES	İ	NULL	İ
Source	varchar(50)	YES	ĺ	NULL	İ
Dest	varchar(50)	YES		NULL	ĺ
Seats	int	YES		NULL	İ
Departure	time	YES		NULL	İ
Arrival	time	YES	İ	NULL	İ
Tier	varchar(50)	YES		NULL	İ
Cost_per_ticket	int	YES		NULL	j

## DATA STORED WITHIN

## TABLES:

USERCOD	E   USERPASSWO	RD   USERNAME								
	1   rohan1234 2   raju1234 3   deb1234 4   deep1234	ROHAN   RAJU   DEB								
ows in	set (0.00 sec lect * from bo									
USERCOD	+ E   TRAIN_ID	NUMBER_OF_PASSEN	+GERS   DATE_OF_JOURN				RAIN	+   SOURCE	DESTINATION	i
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	3   3333   4   4444		3   2020-12-07 4   2020-12-09	07: 10:	15:00		EXPRESS	NEW DELHI	MUMBAI	
rows in	3   3333		3 2020-12-07	10:	15:00	SHATABDI	EXPRESS	NEW DELHI	MUMBAI	   
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rows in	3   3333   4   4444   	) ains; +	3   2020-12-07 4   2020-12-09 	10: + +   Seats	15:00   Departure     17:20:00     06:05:00     16:40:00     23:25:00     23:40:00     19:40:00	Arrival   10:10:00   13:15:00   22:10:00   05:55:00   06:00:00   05:05:00	Tier 1AC 2AC 1AC 2AC 2AC 3AC 2AC 3AC 2AC 3AC 2AC 3AC AC CHAIR	NEW DELHI	R CAR SLEEPER	+   Cost_per_ticket

## PYTHON SOURCE CODE:

```
import mysql.connector as mycon
import random
def body2(ucode):
 k=None
  while k!=4:
    print("'1. VIEW BOOKINGS
2. MANAGE BOOKINGS
3. NEW BOOKING
4. MAIN MENU")
    k=int(input())
    if k==1:
      cur.execute('select * from bookings where usercode='+str(ucode))
      result=cur.fetchall()
      print("%20s"%"USERCODE","%20s"%"TRAIN ID","%20s"%"NUMBER OF
PASSENGERS","%20s"%"DATE OF JOURNEY","%20s"%"TIME OF
JOURNEY","%20s"%"NAME OF TRAIN","%20s"%"SOURCE","%20s"%"DESTINATION")
      for row in result:
print("%20s"%row[0],"%20s"%row[1],"%20s"%row[2],"%20s"%row[3],"%20s"%row[4],"%20s"%r
ow[5],"%20s"%row[6],"%20s"%row[7])
    elif k==2:
      c=input('WARNING!! DO YOU REALLY WANT TO CANCEL BOOKING?[Y/N]')
      if c=='Y':
        cur.execute('select * from bookings where usercode="'+str(ucode)+'"')
        result=cur.fetchall()
```

```
print("%20s"%"USERCODE","%20s"%"TRAIN ID","%20s"%"NUMBER OF
PASSENGERS","%20s"%"DATE OF JOURNEY","%20s"%"TIME OF
JOURNEY", "%20s"%"NAME OF TRAIN", "%20s"%"SOURCE", "%20s"%"DESTINATION")
        for row in result:
print("%20s"%row[0],"%20s"%row[1],"%20s"%row[2],"%20s"%row[3],"%20s"%row[4],"%20s"%r
ow[5],"%20s"%row[6],"%20s"%row[7])
        f=input('Enter the Train Id of the train you want to cancel')
        cur.execute('select count(*) from bookings where train id="'+str(f)+"")
        result=cur.fetchall()
        if str(result[0][0]==1):
          cur.execute('delete from bookings where train id="'+str(f)+"")
          con.commit()
          print('BOOKINGS DELETED SUCCESSFULLY!! REFUND AMOUNT WILL BE
SENT TO YOUR ACCOUNT SHORTLY!!')
        else:
          print('NO TRAINS FOUND!!')
    elif k==3:
      print('/'*191)
      print("WELCOME TO BOOKING TERMINAL
THE TRAINS AVAILABLE ARE AS FOLLOWS")
      cur.execute('select * from trains')
      result=cur.fetchall()
print("%10s"%"PNR","%20s"%"NAME","%20s"%"SOURCE","%20s"%"DESTINATION","%10s"
%"SEATS","%10s"%"DEPARTURE","%10s"%"ARRIVAL","%40s"%"TIER","%40s"%"COST
PER TICKET")
      print('/'*191)
      for row in result:
```

```
print("%10s"%row[0],"%20s"%row[1],"%20s"%row[2],"%20s"%row[3],"%10s"%row[4],"%10s"%r
ow[5],"%10s"%row[6],"%40s"%row[7],"%40s"%row[8])
         print('/'*191)
      pnr=int(input('ENTER PNR OF THE TRAIN YOU WANT TO BOOK'))
      cur.execute('select count(*) from trains where pnr='+str(pnr))
      result=cur.fetchall()
      if str(result[0][0])=='0':
         print('NO TRAINS AVAILABLE')
      else:
         cur.execute('select * from trains where pnr='+str(pnr))
         r=cur.fetchall()
         tier=input('ENTER TIER NAME')
         if tier in r[0][7]:
           print('Tier available!!')
           date=input('Enter date of journey[YYYY-MM-DD]')
           seats=int(input('Enter the number of seats you want to book: '))
           if seats>r[0][4]:
             print("Not enough seats")
           else:
             print('BOOKING DETAILS STORED!! PROCEEDING TO PAYMENT...')
             print('AMOUNT DUE: ',r[0][8]*seats)
             cardno=input('ENTER CARD NUMBER: ')
             if len(cardno)==16:
                cvv=input('ENTER CVV: ')
               if len(cvv)==3:
```

```
print('/'*191)
                   print('PAYMENT SUCCESSFUL')
                   print('/'*191)
                   query="insert into bookings
values(\{\},\{\},\{\},'\{\}','\{\}','\{\}','\{\}',''\}')". format(ucode,r[0][0],seats,date,r[0][5],r[0][1],r[0][2],r[0][3])
                   cur.execute(query)
                   remseats=r[0][4]-seats
                   cur.execute('update trains set seats='+str(remseats)+' where pnr='+str(pnr))
                    con.commit()
                 else:
                   print('Invalid cvv')
               else:
                 print('Invalid Card Number')
          else:
            print('Tier unavailable!!Try some other time!!')
def body(un,pwd):
  k=None
  while k!=4:
    print('/'*191)
     print("1. VIEW ACCOUNT
2. ALTER ACCOUNT DETAILS
3. MORE
4. LOGOUT")
```

```
k=int(input("Enter your choice: "))
    cur.execute('SELECT * FROM Account where username="'+un+" and
userpassword=""+pwd+""")
    result=cur.fetchall()
    ucode=result[0][0]
    if k==1:
      cur.execute('SELECT * FROM Account where username="'+un+"' and
userpassword="'+pwd+'"")
      result=cur.fetchall()
      print("%20s"%"USERCODE","%20s"%"USERPASSWORD","%20s"%"USERNAME")
      print('/'*191)
      for row in result:
        print("%20s"%row[0],"%20s"%row[1],"%20s"%row[2])
        print('/'*191)
    elif k==2:
      u=input('ENTER NEW USERNAME: ')
      p=input('ENTER NEW PASSWORD: ')
      cur.execute('update account set username=""+u+"", userpassword=""+p+"" where
usercode=""+str(ucode)+""")
      con.commit()
      un=u
      pwd=p
      print('USERNAME PASSWORD CHANGED SUCCESSFULLY!!')
    elif k==3:
      body2(ucode)
    elif k==4:
      print('LOGGED OUT SUCCESSFULLY!!')
```

```
break
    else:
      print('INVALID INPUT. TRY AGAIN')
def initiate(n):
  print('/'*191)
  cur.execute("use Anand_Railway_Services")
  print('WECOLME TO ANAND RAILWAY SERVICES')
  print('/'*191)
  while n!=3:
    print("1. LOGIN
2. SIGNUP
3. EXIT''')
    n=int(input("Enter choice: "))
    if n==1:
      print("PLEASE ENTER USERNAME")
      un=input()
      print("ENTER PASSWORD")
      pwd=input()
      cur.execute('select count(*) from account where username="'+un+" and
userpassword="'+pwd+"")
      result=cur.fetchall()
      if str(result[0][0])=='1':
```

```
print('/'*191)
         print("ACCEPTED!!")
         body(un,pwd)
      else:
         print("INVALID USER ID/PASSWORD, TRY SINGUP!!\n \n")
    elif n==2:
      print("PLEASE ENTER USERNAME")
      un=input()
      print("ENTER PASSWORD")
      pwd=input()
      cur.execute('select count(*) from account where username="'+un+" and
userpassword="'+pwd+"")
      result=cur.fetchall
      if result[0]==0:
         print("CONFIRM PASSWORD")
         pwd2=input()
         if pwd==pwd2:
           cur.execute('select max(usercode) from account')
           r1=cur.fetchall
           r2=r1[0][0]+random.randint(1,1000)
           q='insert into account values({},"{}","{}")'.format(r2,un,pwd)
           cur.execute(q)
           con.commit()
           print('/'*191)
           print('ACCOUNT CREATED SUCCESSFULLY!!')
           print('/'*191)
```

```
else:
    print('PASSWORDS DO NOT MATCH')
    else:
    print('DUPLICATE ACCOUNT FOUND. TRY ANOTHER
USERNAME/PASSWORD!!')
    elif n==3:
    print('/"*191)
    print('THANK YOU!!')
    print('J"*191)
    break
    else:
    print('INVALID INPUT. TRY AGAIN.')

con = mycon.connect(host='localhost', user='root', password = 'abc123')
cur = con.cursor()
initiate(None)
```

## **OUTPUTS:**

#### Login:

L	y .
File Edit Shell Debug Options Window Help	
Python 3.7.8 (tags/v3.7.8:4b47a5b6ba, Jun 28 2020, 07:55:33) [MSC v.1916 32 bit (Intel)] on win32	
Type "help", "copyright", "credits" or "license()" for more information.	
>>>	
======= RESTART: C:\Users\sipri\Desktop\COMP PRAC PROJ\Final\Final.py =======	
	//////
WECOLME TO ANAHD RAILWAY SERVICES	
	//////
1. LOGIN	
2. SIGNUP	
3. EXIT	
Enter choice: 1	
PLEASE ENTER USERNAME	
DEB	
ENTER PASSWORD	
deb1234	
	//////
ACCEPTED!!	
***************************************	//////
1. VIEW RCCOUNT	
2. ALTER ACCOUNT DETAILS	
3. MORE	
4. LOGOUT	
Enter your choice:	

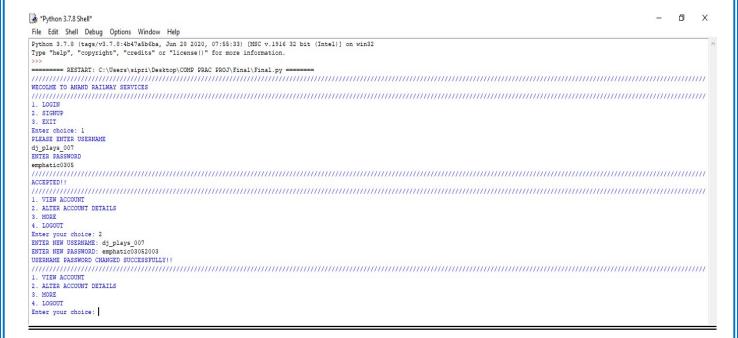
#### <u>Signup:</u>

Python 3.7.8 (tags/v3.7.8:4b47a5b6ba, Jun 28 2020, 07:55:33) [MSC v.1916 32 bit (Intel)] on win32 Type "help", "copyright", "credits" or "license()" for more information.	
>>>	
======= RESTART: C:\Users\sipri\Desktop\COMP PRAC PROJ\Final\Final\Final.py =======	
	/
WECOLME TO ANAND RAILWAY SERVICES	
	7
1. LOGIN	
2. SIGNUP	
3. EXIT	
Enter choice: 2	
PLEASE ENTER USERNAME	
dj_plays_007	
ENTER PASSWORD	
emphatic0305	
CONFIRM PASSWORD	
emphatic0305	
	7
ACCOUNT CREATED SUCCESSFULLY!!	
	1
1. LOGIN	
2. SIGNUP	
3. EXIT	
Enter choice: 1	
PLEASE ENTER USERNAME	
dj plays 007	
ENTER PASSWORD	
emphatic0305	
\(\dot{\dot{\dot{\dot{\dot{\dot{\dot{	1
ACCEPTED!!	
	1/
1. VIEW ACCOUNT	
2. ALTER ACCOUNT DETAILS	
3. MORE	
4. LOCOUT	
Enter your choice:	

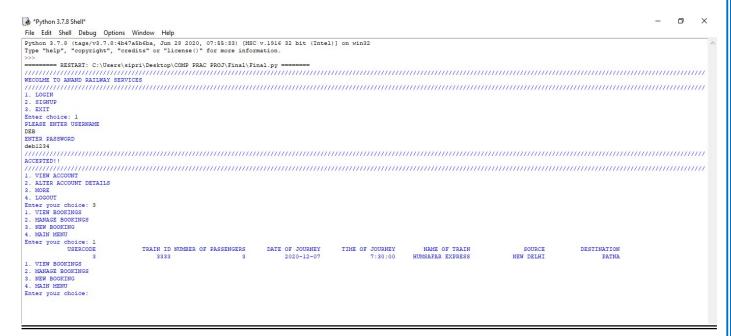
#### **Viewing Account Details:**

. LOGIN  2. STAND 3. EXIT  Enter choice: 1  PLEASE ENTER USERNAME  dj_plays_007   ENTER PASSONDD  emphatic0305  4. LOGOUT  Enter your choice: 1  USERCODE USERPASSOND USERNAME   2. ALTER ACCOUNT DETAILS  3. MORE  4. LOGOUT  Enter your choice: 1  USERCODE USERPASSOND USERNAME   203 emphatic0305 dj_plays_007	
2. SIGNUP 3. EXIT Enter choice: 1  PLEASE ENTER USERNAME dj_plays_007  ENTER PASSWORD  emphatic3005  //////////////////////////////////	
3. EXIT Enter choice: 1 PLEASE INTER USERNAME  dj_plays_007 ENTER PASSWORD emphatic0305  //////////////////////////////////	
Enter choice: 1 PLEAST ENTER USERNAME dj_plays_007 ENTER PASSWORD emphatic0305  //////////////////////////////////	
PLEASE ENTER USERNAME  dj_plays_007  ENTER PASSNORD  emphatic0305  //////////////////////////////////	
### District Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control of Control o	
ENTER PASSNORD emphatic0305  //////////////////////////////////	
emphatic0305  //////////////////////////////////	
ACCEPTED!  1. VIEW ACCOUNT  2. ALTER ACCOUNT DETAILS  3. MORE  4. LOGOUT  Enter your choice: 1  USEROADE  203 emphatic0305 dj.plays.007	
ACCEPTED!!  //////////////////////////////////	
1. VIEW ACCOUNT  1. VIEW ACCOUNT  2. ALTER ACCOUNT DETAILS  3. MORE 4. LOGOUT  Enter your choice: 1	
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2. ALTER ACCOUNT DETAILS 3. MORE 4. LOGOUT Enter your choice: 1 USERCODE USERPASSWORD USERNAME  203 emphatic0305 dj.plays_007  VIEN ACCOUNT 1. VIEN ACCOUNT DETAILS 3. MORE 4. ALTER ACCOUNT DETAILS 3. MORE	
3. MORE 4. LOSGUIT Enter your choice: 1	
4. LOGOUT Enter your choice: 1	
Enter your choice: 1	
USERCODE USERPASSWORD USERNAME  203 emphatic0305 dj_plays_007  . VIEW ACCOUNT  1. VIEW ACCOUNT DETAILS  3. MORE	
203 emphatic0305 dj_plays_007 ///////////////////////////////////	
203 emphatic0305 dj_plays_007 ///////////////////////////////////	
1. VIEW ACCOUNT DETAILS 3. MORE	
1. VIEW ACCOUNT 2. ALTER ACCOUNT DETAILS 3. HORE	
1. VIEW ACCOUNT 2. ALTER ACCOUNT DETAILS 3. MORE	
2. ALTER ACCOUNT DETAILS 3. MORE	
3. MORE	
4 LOCOUT	
Enter your choice:	Enter your choice:

#### **Alter Account Details:**



#### Viewing Bookings:



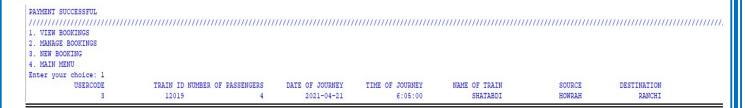
#### **Managing Bookings:**

```
1. VIEW BOOKINGS
2. MANAGE BOOKINGS
3. NEW BOOKING
 4. MAIN MENU
Enter your choice: 2
WARNING!! DO YOU REALLY WANT TO CANCEL BOOKING? [Y/N]Y
                                 TRAIN ID NUMBER OF PASSENGERS
                                                                     DATE OF JOURNEY
                                                                                          TIME OF JOURNEY
                                                                                                                                             SOURCE
            USERCODE
                                                                                                                 NAME OF TRAIN
                                                                                                                                                             DESTINATION
                                     3333
                                                                         2020-12-07
                                                                                                  7:30:00
                                                                                                              HUMSAFAR EXPRESS
                                                                                                                                          NEW DELHI
 Enter the Train Id of the train you want to cancel3333
BOOKINGS DELETED SUCCESSFULLY!! REFUND AMOUNT WILL BE SENT TO YOUR ACCOUNT SHORTLY!!
1. VIEW BOOKINGS
 2. MANAGE BOOKINGS
3. NEW BOOKING
4 MATH MENU
Enter your choice:
```

#### New Booking:

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## <u>Checking Whether the Booking has been Stored to Account:</u>



Clearly the booking is successful as the booking details have been stored to account.

#### **Terminating the Program:**

Python 3.7.8 (tays/v3.7.8:4b47a5b6ba, Jun 28 2020, 07:55:33) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
======== RESTART: C:\Users\sipri\Desktop\COMP PRAC PROJ\Final\Final.py ========
<u> </u>
WECOIME TO AMAND RAILMAY SERVICES
//////////////////////////////////////
1. LOGIN
2. SLEGOV
S. EMI Enter choice: 1
SHOP CHITCH USERIAME
PLEASE SALEN COSMINES
ENTER PASSWORD
debl234
ACCEPTED!!
1. VIEW ACCOUNT
2. ALTER ACCOUNT DETAILS
3. MORE
4. LOGOUT
Enter your choice: 4
LOGGED OUT SUCCESSFULLY!!
1. LOGIN
2. SIGNUP
3. EXIT
Enter choice: 3
THANK YOU!!
<i>"</i>

### **LIMITATIONS**

- Gui could not be implemented due to CBSE syllabus limitations.
- Search filters could not be added due to time constraints.
- More variety of trains could not be added due to time constraints.

## BIBLIOGRAPHY

- COMPUTER SCIENCE WITH PYTHON CLASS-XII BY SUMITA ARORA
- https://dev.mysql.com/downloads/connector/python/