# KENDRIYA VIDYALAYA

# UJJAIN

# INFORMATICS PRACTICES

# PROJECT FILE

# CLASS:- XII 'A'

**PREPARED BY:-**                                 **GUIDED BY:-**

Mohit Goyal                                 **Mr. Rahul Namdeo**

# CERTIFICATE

The project report entitled "**RAILWAY RESERVATION SYSTEM**" Submitted by Mohit Goyal of class **XII 'A'** for the CBSE Senior Secondary Examination 2019-20, **Class XII** for Informatics Practices at **Kendriya Vidyalaya, Ujjain** has been **examined**.

*SIGNATURE OF EXAMINER*

# <u>DECLARATION</u>

I hereby declare that the project work entitled "Railway Reservation System", submitted to **Department of Informatic practices , Kendriya Vidyalaya, Ujjain,** is prepared by me.

**Mohit Goyal**

**Class XII 'A'**

# <u>ACKNOWLEDGEMENT</u>

I would like to express a deep sense of thanks & gratitude to my

Project guide **Mr  Rahul Namdeo** for guiding me immensely through the course of the project. He always evinced keen interest in my work. His constructive advice & constant motivation have been responsible for the successful completion of this project.

I also thanks to my parents for their motivation & support. I must thanks to my class mates for their timely help & support for completion of this project.

**Last but not the least I would like to thanks all those who had helped directly and  indirectly  towards the completion of this project.**

**Mohit Goyal**

**Class :XII –A**

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**Project On "RAILWAY RESERVATION SYSTEM"**

**DBMS: MySQL**

**Host : localhost**

**User: root**

**Password: root**

**DataBase: RAIL**

**Table Structure: (Images Bellow)**

```
mysql> use rail;
Database changed
mysql> desc passengers;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| pname   | varchar(30) | YES  |     | NULL    |       |
| age     | int(11)     | YES  |     | NULL    |       |
| trainno | int(11)     | YES  |     | NULL    |       |
| noofpas | int(11)     | YES  |     | NULL    |       |
| cls     | varchar(20) | YES  |     | NULL    |       |
| amt     | int(11)     | YES  |     | NULL    |       |
| status  | varchar(50) | YES  |     | NULL    |       |
| pnrno   | int(11)     | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
8 rows in set (0.02 sec)
```

```
mysql> desc traindetail;
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| tname | varchar(20) | YES  |     | NULL    |       |
| tnum  | int(6)      | NO   | PRI | NULL    |       |
| src   | char(50)    | YES  |     | NULL    |       |
| des   | char(50)    | YES  |     | NULL    |       |
| ac1   | int(11)     | YES  |     | NULL    |       |
| ac2   | int(11)     | YES  |     | NULL    |       |
| ac3   | int(11)     | YES  |     | NULL    |       |
| slp   | int(11)     | YES  |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
8 rows in set (0.02 sec)
```

# PYTHON CODE:

```python
import mysql.connector

mydb=mysql.connector.connect(host="localhost",user="root",passwd="root",database="rail");

mycursor=mydb.cursor()

def railresmenu():

    print("-------------------------------------------------------\nRailway
Reservation\n-------------------------------------------------------")

    print("1.Train Detail")

    print("2.Reservation of Ticket")

    print("3.Cancellation of Ticket")

    print("4.Display PNR status")

    print("5.Passengers Detail")

    print("6.Quit")


    n=int(input("enter your choice :"))

    if(n==1):

        traindetail()

    elif(n==2):

        reservation()

    elif(n==3):

        cancel()
```

```python
    elif(n==4):
        displayPNR()
    elif(n==5):
        psgdetail()
    elif(n==6):
        exit(0)
    else:
        print("_____wrong choice_____")



def traindetail():
    print("------------------------------------------------------------\nTrain Details\n--------------------------------------------------------")
    ch='y'
    while (ch=='y'):
        l=[]
        name=input("enter train name :")
        l.append(name)
        tnum=int(input("enter train number :"))
        l.append(tnum)
        ac1=int(input("enter number of AC 1 class seats :"))
        l.append(ac1)
        ac2=int(input("enter number of AC 2 class seats :"))
        l.append(ac2)
        ac3=int(input("enter number of AC 3 class seats :"))
```

```python
        l.append(ac3)

        slp=int(input("enter number of sleeper class seats :"))

        l.append(slp)

        train=(l)

        sql="insert into
traindetail(tname,tnum,ac1,ac2,ac3,slp)values(%s,%s,%s,%s,%s,%s)"

        mycursor.execute(sql,train)

        mydb.commit()

        print("insertion completed")

        print("Do you want to insert more train Detail")

        ch=input("enter yes/no")

        print('\n')


print("=====================================================
================")


        railresmenu()



def reservation():
    print('---------------------------------------------------------
\nWELCOME\nto\nTRAIN RESERVATION SYSTEM\n------------------------
--------------------------------')

    pnr=1024

    l1=[]

    pname=input("enter passenger name=")
```

```python
l1.append(pname)
age=input("enter age of passenger =")
l1.append(age)
trainno=input("enter train number")
l1.append(trainno)
np=int(input("Enter number of passanger:"))
l1.append(np)
print("select a class you would like to travel in")
print("1.AC FIRST CLASS")
print("2.AC SECOND CLASS")
print("3.AC THIRD CLASS")
print("4.SLEEPER CLASS")
cp=int(input("Enter your choice:"))
if(cp==1):
    amount=np*1000
    cls='ac1'
elif(cp==2):
    amount=np*800
    cls='ac2'
elif(cp==3):
    amount=np*500
    cls='ac3'
else:
    amount=np*350
    cls='slp'
```

```python
    l1.append(cls)
    print("Total amount to be paid:",amount)
    l1.append(amount)
    pnr=pnr+1
    print("PNR Number:",pnr)
    print("status: confirmed")
    sts='conf'
    l1.append(sts)
    l1.append(pnr)
    train1=(l1)
    sql="insert into
passengers(pname,age,trainno,noofpas,cls,amt,status,pnrno)values(%s,
%s,%s,%s,%s,%s,%s,%s)"
    mycursor.execute(sql,train1)
    mydb.commit()
    print("insertion completed")
    print("Go back to menu")
    print('\n')


print("========================================================
===============")


    railresmenu()
```

```python
def cancel():
    print("---------------------------------------------------------\nTicket cancel
window\n--------------------------------------------------------")
    pnr=input("enter PNR for cancellation of Ticket")
    pn=(pnr,)
    sql="update passengers set status='deleted' where pnrno=%s"
    mycursor.execute(sql,pn)
    mydb.commit()
    print("Deletion completed")
    print("Go back to menu")


print("=====================================================
================")


    railresmenu()



def displayPNR():
    print("---------------------------------------------------------\nPNR Status
window\n--------------------------------------------------------")
    pnr=input("enter PNR NUMBER")
    pn=(pnr,)
    sql="select * from passengers where pnrno=%s"
    mycursor.execute(sql,pn)
    res=mycursor.fetchall()
    print("PNR STATUS are as follows : ")
```

```python
        print("(pname,age,trainno, noofpas,cls,amt,status, pnrno)")

    for x in res:

        print(x)


    print("Go back to menu")

    print('\n')


print("===================================================
================")


    railresmenu()



def psgdetail():

    print("------------------------------------------------------\nPassengers Detail
Window\n------------------------------------------------------")

    mycursor.execute('select * from passengers')

    for i in mycursor:

        print(i)

    print("Go back to menu")

    print('\n')


print("===================================================
================")
```

railresmenu()

railresmenu()

displayPNR()

cancel()

reservation()

traindetail()

psgdetail()

## OUTPUT SCREEN:

```
----------------------------------------------------------
Railway Reservation System
----------------------------------------------------------
1.Train Detail
2.Reservation of Ticket
3.Cancellation of Ticket
4.Display PNR status
5.Passengers Detail
6.Quit
enter your choice :
```

## → Train detail window

```
-----------------------------------------------------------
Railway Reservation System
-----------------------------------------------------------
1.Train Detail
2.Reservation of Ticket
3.Cancellation of Ticket
4.Display PNR status
5.Passengers Detail
6.Quit
enter your choice :1
-----------------------------------------------------------
Train Details
-----------------------------------------------------------
enter train name :Shatabdi Express
enter train number :15487
enter number of AC 1 class seats :100
enter number of AC 2 class seats :150
enter number of AC 3 class seats :300
enter number of sleeper class seats :400
insertion completed
Do you want to insert more train Detail
enter yes/non
```

4.Display PNR status
5.Passengers Detail
6.Quit
enter your choice :2
----------------------------------------------------------
WELCOME
to
TRAIN RESERVATION SYSTEM
----------------------------------------------------------
enter passenger name:Manan
enter age of passenger :23
enter train number:15487
Enter number of passanger:2
select a class you would like to travel in
1.AC FIRST CLASS
2.AC SECOND CLASS
3.AC THIRD CLASS
4.SLEEPER CLASS
Enter your choice:2
Total amount to be paid: 1600
PNR Number: 1025
status: confirmed
insertion completed
Go back to menu

```
----------------------------------------------------------
Railway Reservation System
----------------------------------------------------------
1.Train Detail
2.Reservation of Ticket
3.Cancellation of Ticket
4.Display PNR status
5.Passengers Detail
6.Quit
enter your choice :3
----------------------------------------------------------
Ticket cancel window
----------------------------------------------------------
enter PNR for cancellation of Ticket1025
Deletion completed
Go back to menu
```

## → Display PNR status window

```
----------------------------------------------------------
Railway Reservation System
----------------------------------------------------------
1.Train Detail
2.Reservation of Ticket
3.Cancellation of Ticket
4.Display PNR status
5.Passengers Detail
6.Quit
enter your choice :4
----------------------------------------------------------
PNR Status window
----------------------------------------------------------
enter PNR NUMBER1025
PNR STATUS are as follows :
(pname,age,trainno, noofpas,cls,amt,status, pnrno)
('Manan', 23, 15487, 2, 'ac2', 1600, 'conf', 1025)
Go back to menu
```

**--→ passengers details**

---------------------------------------------------------

Railway Reservation System

---------------------------------------------------------

1.Train Detail
2.Reservation of Ticket
3.Cancellation of Ticket
4.Display PNR status
5.Passengers Detail
6.Quit
enter your choice :5

---------------------------------------------------------

Passengers Detail Window

---------------------------------------------------------

('Manan', 23, 15487, 2, 'ac2', 1600, 'conf', 1025)
Go back to menu

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