**MGM**

**CENTRAL PUBLIC SCHOOL**

**TRIVANDRUM**



**COMPUTER SCIENCE**

**PROJECT REPORT**

**2020-2021**

**RAILWAY TICKET BOOKING SYSTEM**

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**PROJECT REPORT**

**2020-2021**

**RAILWAY TICKET BOOKING SYSTEM**

**PROJECT DONE BY:**

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**ISHAN MISHRA**

**Certificate**

**This is to Certify that the project report entitled RAILWAY TICKET BOOKING SYSTEM , is a bonafide record of the project work done by ………………………..……………., Reg No:………………. of class XII to the CBSE Board in partial fulfillment of the requirements for the AISSC Examination 2020-2021 run under MGM Central Public School, Trivandrum after the successful completion of the course.**

**Teacher in Charge:**

**External Examiner: Principal:**

**ACKNOWLEDGEMENT**

I would like to thank **Almighty** for all the blessings which gave a motivational force and mental strength to complete my project successfully.

I express my sincere thanks and a deep sense of humble gratitude to the principal of this institution, **Mrs. Krishna P Nair** for providing me all necessary facilities. I express my special thanks of gratitude to my beloved teacher Mrs. **Savitha Javeen** who gave me this golden opportunity to do this interesting topic “**Railway Ticket Booking System**” which made me to research and know about many new things.

Finally I would like to thank my parents and friends who helped me a lot in finalizing this project on time.

**INDEX**

* INTRODUCTION
* SOFTWARE REQUIREMENTS
* ABOUT THE PROJCT
* SYSTEM DESIGN
* SOURCE CODE
* OUTPUT
* CONCLUSION
* BIBLIOGRAPHY

**INTRODUCTION**

The Project Entitled **“RAILWAY TICKET BOOKING SYSTEM**” is a project work to reduce the manual effort of customers in booking Railway tickets and to manage the ticket reservation for the railway employees.

This project include the areas like Train list and route where we can add and remove Trains and routs , Seat reservation where we can book and cancel tickets, Type of tickets where we can choose the category of tickets we are booking. There is a provision for searching train running in a particular route.

Also in the report section an analysis is done by plotting a graph based on type of tickets, most popular type of seat people booking etc..

**SOFTWARE REQUIREMENTS**

* **OPERATING SYSTEM:**
* **WINDOWS 7 ONWARDS.**

* **FRONT END**
* **PYTHON ANACONDA 3.6**
* **BACK END**
* **My SQL**

**ABOUT THE PROJECT**

The project titled **“Railway Ticket Booking System”** consist of different modules viz.

* Registration of Trains
* Ticket Booking
* Search module
* Ticket Cancellation
* Report Module.

**Registration Module consist of sub divisions like.**

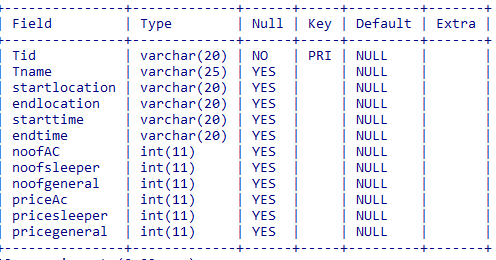
* Add Train details
* Update Train details like change of route, no of seats, price of tickets
* Remove a particular Train from the list.
* Search Train details.

**Ticket Booking Module consist of**

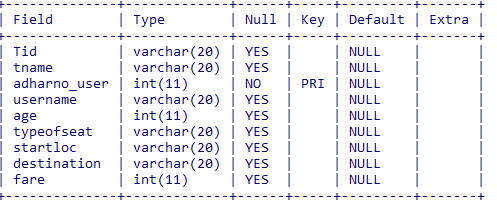
* Ticket Booking
* Search Booking details
* Cancellation of Ticket

**SYSTEM DESIGN**

**Train table:**

****

TicketBooking table



**#INCLUDING HEADER FILES**.

import mysql.connector as sc

**#DEFINITION FOR HOME PAGE**

def R\_Homepage():

print('\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*')

print("WELCOME TO INDIAN RAILWAY")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("1. ADD TRAIN DETAILS")

print("2. UPDATE TRAIN DETAILS")

print("3. CANCEL TRAIN DETAILS")

print("4. SEARCH TRAIN DETAILS")

print("5.TICKET BOOKING")

print("6. CANCEL TICKET")

print("7. SEARCH BOOKING DETAILS")

op=int(input("Enter your option:"))

if op==1:

AddTrain()

elif op==2:

UpdateTrain()

elif op==3:

RemoveTrain()

elif op==4:

SearchTrain()

elif op==5:

TicketBooking()

elif op==6:

CancelTicket()

elif op==7:

SearchBooking()

else:

print("Invalid option")

**#Definition for the Login ()**

def Login():

print("\n\n\n\n")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("WELCOME TO INDIAN RAILWAY")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

user=input("Enter User Name:")

pas=input("Enter Password:")

if user=='Admin' and pas=='mgm':

print("SUCCESSFUULY LOGGED!!!!!!")

R\_Homepage()

else:

print("INCORRECT CREDENTIALS")

Login()

**#Definition for AddTrain() function**

def AddTrain():

print("\n\n\n\n")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("WELCOME TO INDIAN RAILWAY")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("ADD TRAIN DETAILS")

T\_id=input("Enter Train ID ")

T\_name=input("Enter Train Name:")

T\_startloc=input("Enter Starting Location:")

T\_endloc=input("Enter Ending location:")

T\_starttime=input("Enter Starting time:")

T\_endtime=input("Enter Ending time:")

T\_noofac=int(input("Enter Number of AC :"))

T\_noofsleeper=int(input("Enter Number of Sleepers:"))

T\_noofgeneral=int(input("Enter Number of General:"))

T\_priceac=int(input("Enter Price of AC Ticket:"))

T\_pricesleeper=int(input("Enter Price of Sleeper Ticket:"))

T\_pricegeneral=int(input("Enter Price of General Ticket:"))

conn=sc.connect(host="localhost",user="root",password="mgm",database="Railway")

mycursor=conn.cursor()

query="insert into train values('{}','{}','{}','{}','{}','{}',{},{},{},{},{},{})".format(T\_id,T\_name,T\_startloc,T\_endloc,T\_starttime,T\_endtime,T\_noofac,T\_noofsleeper,T\_noofgeneral,T\_priceac,T\_pricesleeper,T\_pricegeneral)

mycursor.execute(query)

conn.commit()

print("SUCCESSFULLY ADDED TRAIN DETAILS !!!!!!")

conn.close()

**#Definition of UpdateTrain() function**

def UpdateTrain():

print("\n\n\n\n")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("WELCOME TO INDIAN RAILWAY")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("UPDATE TRAIN DETAILS")

T\_id=input("Enter Train ID to be updated: ")

T\_starttime=input("Enter Updated Starting time:")

T\_endtime=input("Enter Updated Ending time:")

T\_noofac=int(input("Enter Updated Number of AC :"))

T\_noofsleeper=int(input("Enter Updated Number of Sleepers:"))

T\_noofgeneral=int(input("Enter Updated Number of General:"))

T\_priceac=int(input("Enter Updated Amount of AC Ticket:"))

T\_pricesleeper=int(input("Enter Updated Amount of Sleeper Ticket:"))

T\_pricegeneral=int(input("Enter Updated Amount of General Ticket:"))

conn=sc.connect(host="localhost",user="root",password="mgm",database="Railway")

mycursor=conn.cursor()

query="update train set starttime='{}',endtime='{}',NoofAC={},noofsleeper={},noofgeneral={},priceAc={},pricesleeper={},pricegeneral={} where Tid='{}'".format(T\_starttime,T\_endtime,T\_noofac,T\_noofsleeper,T\_noofgeneral,T\_priceac,T\_pricesleeper,T\_pricegeneral,T\_id)

mycursor.execute(query)

conn.commit()

print("SUCCESSFULLY UPDATED TRAIN DETAILS !!!!!!")

conn.close()

**#Definition for the RemoveTrain() function**

def RemoveTrain():

print("\n\n\n\n")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("WELCOME TO INDIAN RAILWAY")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("REMOVE TRAIN DETAILS")

T\_id=input("Enter Train ID to be Removed:")

conn=sc.connect(host="localhost",user="root",password="mgm",database="Railway")

mycursor=conn.cursor()

query="delete from train where Tid='{}'".format(T\_id)

mycursor.execute(query)

conn.commit()

print("SUCCESSFULLY REMOVED TRAIN DETAILS !!!!!!")

conn.close()

**#Definition for Search Train details**.

def SearchTrain():

print("\n\n\n\n")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("WELCOME TO INDIAN RAILWAY")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("SEARCH TRAIN DETAILS")

T\_id=input("Enter Train ID To Search:")

conn=sc.connect(host="localhost",user="root",password="mgm",database="Railway")

mycursor=conn.cursor()

query="select \* from train where Tid='{}'".format(T\_id)

mycursor.execute(query)

myrecord=mycursor.fetchall()

for x in myrecord:

print(x)

conn.close()

**#Definition for TicketBooking() function**

def TicketBooking():

print("\n\n\n\n")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("WELCOME TO INDIAN RAILWAY")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("TICKET BOOKING SECTION ")

conn=sc.connect(host="localhost",user="root",password="mgm",database="Railway")

mycursor=conn.cursor()

query="select \* from train "

mycursor.execute(query)

myrecord=mycursor.fetchall()

print("TID\t\tTname\t\tSTARTINGPOINT\t\tENDLOC\t\tSTARTTIME\t\tENDTIME\t\tNOOFAC\t\tNOOFsleeper\t\tNOOFgeneral\t\tPRICEAC\t\tPRICESLEEPER\t\tPRICEGENERAL\t\t\n")

for x in myrecord:

print(x[0],'\t\t',x[1],"\t\t",x[2],"\t\t",x[3],"\t\t",x[4],"\t\t",x[5],"\t\t",x[6],"\t\t",x[7],"\t\t",x[8],"\t\t",x[9],"\t\t",x[10],"\t\t",x[11],"\n")

conn.close()

Tid=input("Enter ID of the Train you are Booking:")

tname=input("Enter Name of the Train:")

adharnouser=int(input("Enter Your Adhar No:"))

name=input("Enter Your Name:")

age=int(input("Enter Your Age:"))

typeticket=input("Enter Type of Ticket(AC/Sleeper/General):")

startloc=input("Starting location:")

endloc=input("Enter Destination location:")

conn=sc.connect(host="localhost",user="root",password="mgm",database="Railway")

fare=0

mycursor=conn.cursor()

query="insert into trainbooking values('{}','{}',{},'{}',{},'{}','{}','{}',{})".format(Tid,tname,adharnouser,name,age,typeticket,startloc,endloc,fare)

mycursor.execute(query)

conn.commit()

print("SUCCESSFULLY DONE TICKET BOOKING !!!!!!")

conn.close()

**## Definition for SearchBooking() function**

def SearchBooking():

print("\n\n\n\n")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("WELCOME TO INDIAN RAILWAY")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("TICKET BOOKING SECTION ")

ano=int(input("Enter your adhar number for checking"))

conn=sc.connect(host="localhost",user="root",password="mgm",database="Railway")

mycursor=conn.cursor()

query="select \* from trainbooking where adharno\_user={}".format(ano)

mycursor.execute(query)

myrecord=mycursor.fetchall()

for x in myrecord:

print(x)

else:

print("No Booking in this Adhar No")

conn.close()

**#Definition for CancelTicket() function**

def CancelTicket():

print("\n\n\n\n")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("WELCOME TO INDIAN RAILWAY")

print("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

print("TICKET BOOKING SECTION ")

ano=int(input("Enter your adhar number for cancellation"))

conn=sc.connect(host="localhost",user="root",password="mgm",database="Railway")

mycursor=conn.cursor()

query="delete from trainbooking where adharno\_user={}".format(ano)

mycursor.execute(query)

conn.commit()

mycursor.execute(query4)

conn.commit()

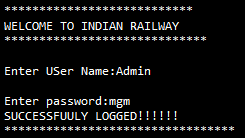
conn.close()

**#Calling main section**

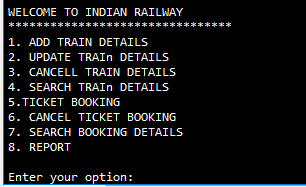
Login()

**SCREEN SHOTS**

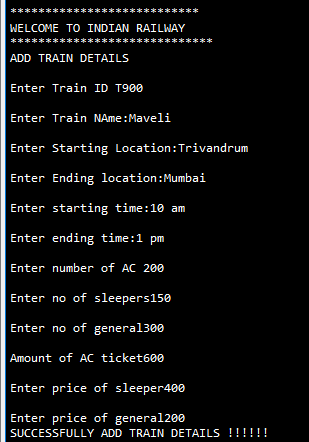
**Login Section:**



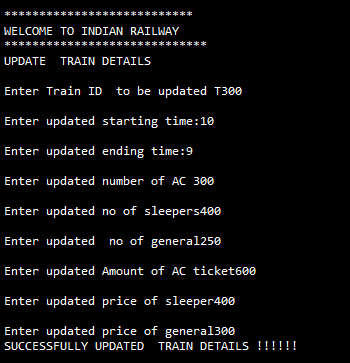
**Home page:**

****

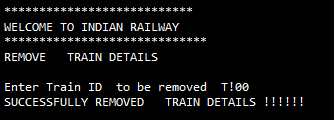
**Add Train Details**

****

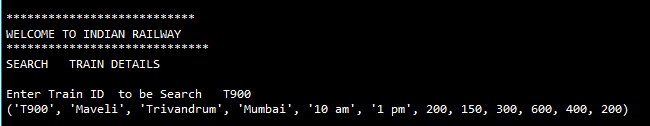
**Update Train Details**

****

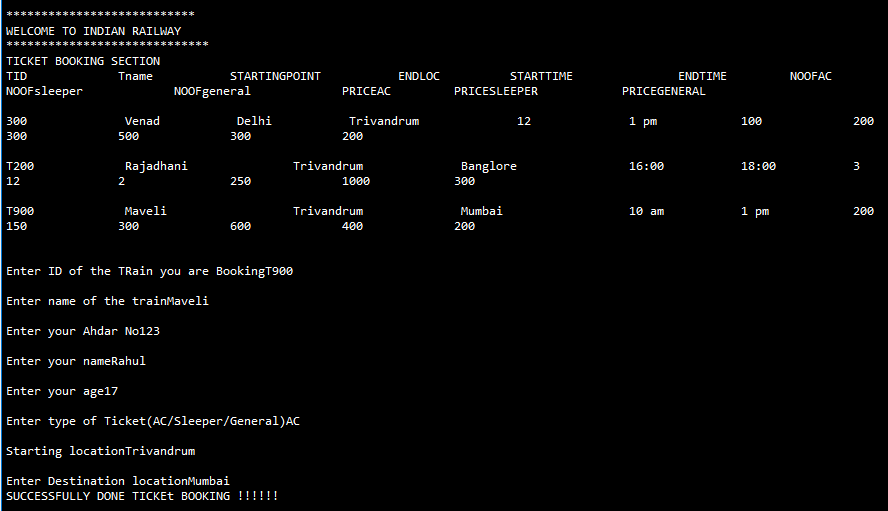
**Remove Train Details**



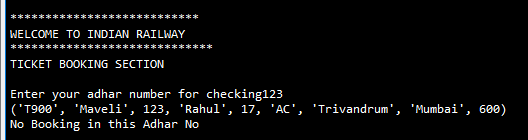
**Search Train Details**



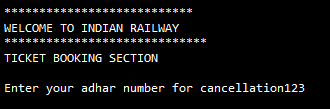
**Ticket Booking:**



**Search Booking details**



**Cancellation of Ticket Booking**:



**CONCLUSION**

This project was completed on time and is found working effectively under all circumstances that may arise in real environment. The program objective specifies on the requirement is believed to be met. Using the facilities and functionalities of python and mysql , the program has been developed in neat manner.

This program is simple and user friendly. The speed and accuracy are maintained in proper way. Testing of the program has given good result.

The program is done with an insight into necessary modifications that is required in the future.

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