from random import randint,choice

import time

from datetime import date

today=date.today()

print("NAMASTE!WELCOME TO IRCTC")

train\_name=[

{"number": 12399, "name": "Kolkata Express", "from": "Kolkata", "to": "Delhi", "time": "08:00 AM"},

{"number": 10654,"name": "Rajdhani Express", "from": "Kolkata","to": "Delhi", "time": "06:00 PM"},

{"number": 12983,"name": "Chennai Mail", "from": "Chennai", "to": "Mumbai", "time": "09:30 AM"},

{"number": 12034, "name": "Mumbai Express", "from": "Chennai", "to": "Mumbai", "time": "07:45 PM"}

]

ticket={}

def show\_train():

print("\n:::::AVIALABLE TRAINS")

for train in train\_name:

print(f"{train['number']}. {train['name']} → {train['from']} → {train['to']} at {train['time']}")

def book\_ticket():

name = input("Enter your name: ")

age = input("Enter your age: ")

gender = input("Enter your gender: ")

coach\_type =input("Enter your class(1A,2A,3A,SL,GENERAL): ")

arrival\_date =(input("enter date: "))

show\_train()

try:

select = int(input("Enter the train number which you want to book: "))

except valueerror:

print(":::::INVALID TRAIN NUMBER:::::")

return

for train in train\_name:

if train["number"] == select:

print("\nChoose Payment Method:")

print("1. UPI")

print("2. Card")

print("3. Net Banking")

pay\_method = input("Enter payment option (1/2/3): ")

if pay\_method not in ["1", "2", "3"]:

print("Payment failed: Invalid method.")

return

print("Processing payment", end="")

for \_ in range(3):

print(".", end="")

time.sleep(1)

print("\n Payment Successful!")

if train["number"] == select:

ticket["pnr"] = randint(100000, 999999)

ticket["seat\_no"] = randint(15, 50)

ticket["berth\_type"] = choice(["LOWER", "UPPER", "MIDDLE","SIDE UPPER","SIDE LOWER"])

ticket["name"] = name

ticket["age"] = age

ticket["gender"] = gender

ticket["coach\_type"] = coach\_type

ticket["arrival\_date"] = arrival\_date

ticket["coach\_type"] = coach\_type

ticket["arrival\_date"] = arrival\_date

ticket["train"] = train["name"]

ticket["from"] = train["from"]

ticket["to"] = train["to"]

ticket["time"] = train["time"]

ticket["payment\_mode"] = "UPI" if pay\_method == "1" else "Card" if pay\_method == "2" else "Net Banking"

print(" Thank you for booking your train from IRCTC.\nTicket booked successfully!")

return

print("Invalid train number.")

def view\_ticket():

if not ticket:

print(":::::NOT TRAIN TICKET BOOKED YET:::::")

if ticket:

print("\n:::::Your Ticket::::::")

print(f"Name: {ticket['name']}")

print(f"Age: {ticket['age']}")

print(f"Gender: {ticket['gender']}")

print(f"Train: {ticket['train']}")

print(f"From: {ticket['from']} → To: {ticket['to']}")

print(f"Train Time: {ticket['time']}")

print(f"Train Date: {ticket['arrival\_date']}")

print(f"Seat No: {ticket['seat\_no']}")

print(f"PNR: {ticket["pnr"]}")

print(f"Berth: {ticket["berth\_type"]}")

print(f"Class: {ticket['coach\_type']}")

print(f"Booking Date:{today}")

print(f"Payment Mode : {ticket['payment\_mode']}")

while True:

print("\n:::::Train Ticket Booking System:::::")

print("1. Book Ticket")

print("2. View Ticket")

print("3. Exit")

choice\_number = input("Enter your choice (1/2/3): ")

if choice\_number == "1":

book\_ticket()

elif choice\_number == "2":

view\_ticket()

elif choice\_number == "3":

if not ticket:

print("YOU HAVRN'T BOOKED YOUR TRAIN TICKET")

continue

if ticket:

print("Goodbye! Have a nice journey.")

break

else:

print("Invalid choice. Please select 1, 2, or 3.")