

Assignment 1: Foundations of Computer Science & Computational Thinking

Course: Computer Science Fundamentals & Career Pathways (ETCCCP105)

Programme: B.Tech CSE (FULL STACK DEVELOPMENT)

Semester: 1

Faculty: Dr. Ravinder Beniwal

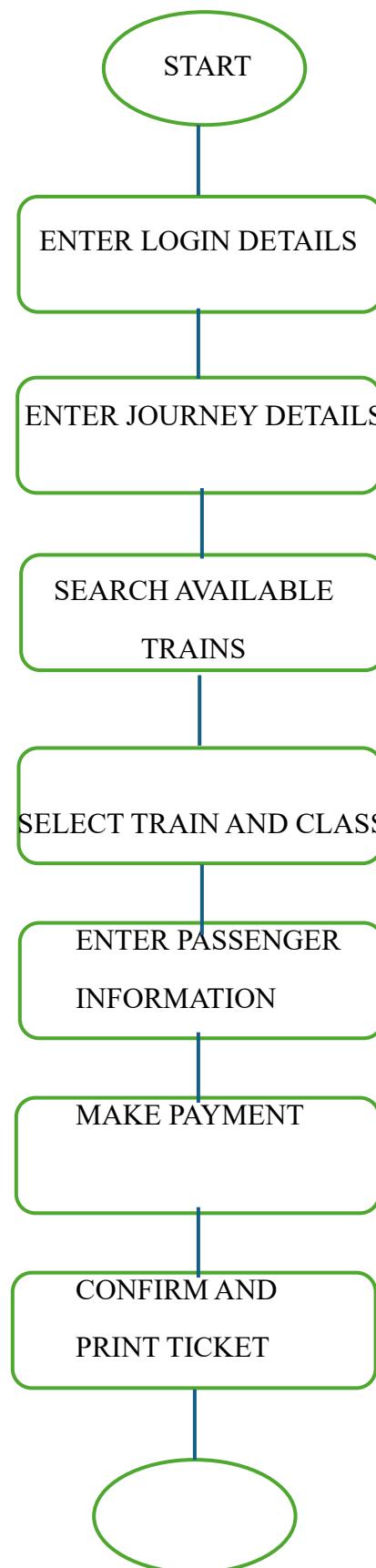
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Assignment Title: Design and Simulate a Real-World Process Using Flowcharts and Pseudocode

Chosen Problem: Railway Ticket Booking System

@ THIS IS THE FLOWCHART OF RAILWAY TICKET BOOKING SYSTEM



@ THIS IS PSEUDOCODE OF TICKET BOOKING SYSTEM

START

DISPLAY "Welcome to Railway Ticket Booking System"

INPUT username, password

IF login is successful THEN

 INPUT source, destination, date

 DISPLAY list of available trains

 INPUT train_number, class_type

 INPUT passenger_name, age, gender

 DISPLAY "Ticket fare details"

 INPUT payment_method

 IF payment successful THEN

 DISPLAY "Booking Confirmed"

 DISPLAY "Print Ticket"

 ELSE

 DISPLAY "Payment Failed"

 ENDIF

ELSE

 DISPLAY "Invalid login details"

ENDIF

END

@ THIS IS THE PYTHON VERSION OF BOOKING SYSTEM

```
print("Railway Ticket Booking System ")
```

```
name = input("Enter passenger name: ")
```

```
source = input("Enter source station: ")
```

```
destination = input("Enter destination station: ")
```

```
train = input("Enter train name: ")
```

```
fare = 450
```

```
print("Processing payment...")
```

```
payment = input("Enter 'yes' if payment done: ")
```

```
if payment.lower() == "yes":
```

```
    print("Booking Confirmed!")
```

```
    print("Ticket Details ")
```

```
    print(f"Passenger: {name}")
```

```
    print(f"From: {source}")
```

```
    print(f"To: {destination}")
```

```
    print(f"Train: {train}")
```

```
    print(f"Fare: Rs.{fare}")
```

```
    print("-----")
```

```
else:
```

```
    print("Payment Failed! Please try again.")
```