

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

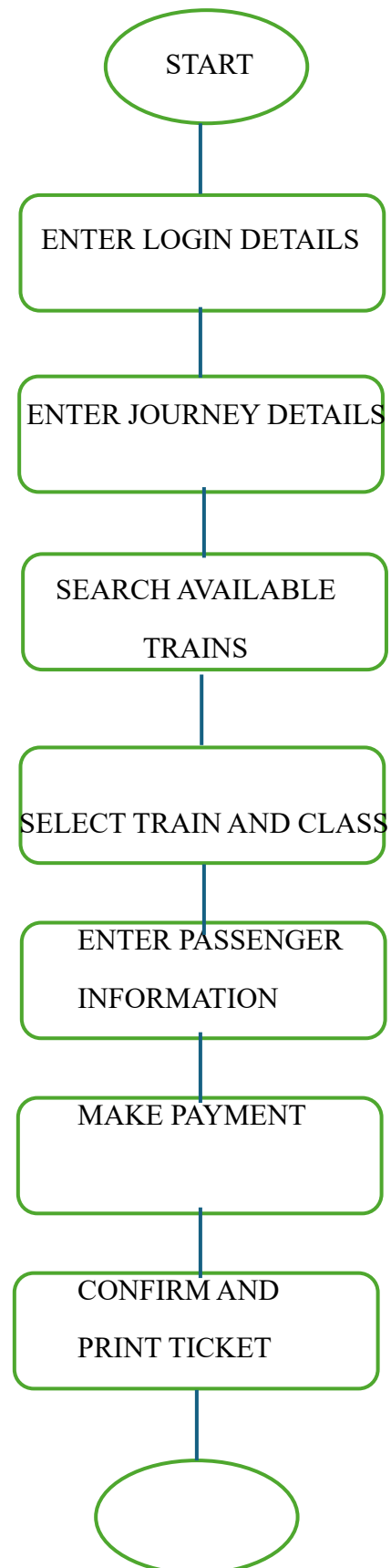
Student Name: AMRIK SINGH

Roll no: 2501350058

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.")
```