

FLIGHT TICKET BOOKING SYSTEM

A minor project report submitted to

Department of computer science and Engineering

**Bonam venkata chalamayya institute of technology & science
(BVCITS)**



By

Saripella Bhagya sri
Vujwala kanderi
Illa Mamatha
Pinisetti Ramadhilakshmi

ABSTRACT

This flight booking system is a console-based application designed to facilitate the booking and cancellation of flight tickets for passengers. It offers a simple menu-driven interface where users can choose to book flights to three predefined destinations: Vizag, Rajahmundry, and Bengaluru. The system manages seat availability, calculates total cost including luggage charges based on weight slabs, and confirms bookings only if the requested number of seats is available. Additionally, it provides a cancellation feature that accepts user details and reference ID to process ticket cancellations. The system aims to simplify and automate flight booking and cancellation processes while ensuring efficient seat management and transparent pricing for users. This project demonstrates fundamental programming concepts such as conditional statements, input/output operations, and basic arithmetic calculations within the airline reservation domain.

PROBLEM STATEMENT

The Flight Ticket Booking System is an online platform designed to simplify the process of searching, booking, and managing flight reservations for travelers. The system allows users to browse available flights based on criteria such as departure and arrival locations, travel dates, and preferred airlines. It provides real-time flight availability, fare details, and seat selection options. Users can securely make payments, receive electronic tickets, and manage cancellations or rescheduling through the system. The platform also includes an administrative interface for managing flight schedules, pricing, and customer information, ensuring efficiency, accuracy, and a seamless travel booking experience.

ALGORITHM

Algorithm for Flight Booking System

Display main menu:
Book a flight
Cancel flight
Exit
Read the user's choice.
If choice = 1 (Book a flight):
Display available flights:
HYD-VIZAG
HYD-RAJAHMUNDRY
HYD-BENGALURU
Input destination choice.
Based on destination:
Set available_seats and seat_cost.
Display flight details and input seats.
If requested seats ≤ available seats:
Input luggage weight (kg).
Compute luggage cost using conditions:
If weight ≤ 20 kg → cost = kg × 10
If weight > 20 and ≤ 50 → cost = $(20 \times 10) + (kg - 20) \times 20$
If weight > 50 → cost = $(20 \times 10) + (30 \times 20) + (kg - 50) \times 100$
Compute total:
[total = seats × seat per cost + cost of luggage]
Print remaining seats, total cost, confirmation message.
Else
print "Seats unavailable".
If choice = 2 (Cancel flight)
Input name and reference id.
Print cancellation and refund message.
If choice = 3 (Exit): Display exit message. Else: Print "Invalid option". Stop

PSEUDO CODE

```

PRINT "Welcome to flight booking portal"
PRINT "1. Book a flight"
PRINT "2. Cancel flight"
PRINT "3. Exit"
INPUT choice

IF choice == 1 THEN
    PRINT "Available flights:"
    PRINT "1. HYD-VIZAG"
    PRINT "2. HYD-RJY"
    PRINT "3. HYD-BENGALURU"
    INPUT destiny

    IF destiny == 1 THEN
        available_seats ← 20
        seat_cost ← 2000
        destination ← "VIZAG"
    ELSE IF destiny == 2 THEN
        available_seats ← 18
        seat_cost ← 1500
        destination ← "RAJAHMUNDRY"
    ELSE IF destiny == 3 THEN
        available_seats ← 28
        seat_cost ← 2200
        destination ← "BENGALURU"
    ELSE
        PRINT "Invalid destination"
        STOP
END
IF

PRINT "Available seats: ", available_seats
PRINT "Cost per seat: ", seat_cost
INPUT seats

IF seats ≤ available_seats THEN
    remaining_seats ← available_seats - seats
    PRINT "Enter luggage weight:"
```

```
INPUT kg
```

```
IF kg ≤ 20 THEN  
    cost ← kg * 10  
ELSE IF kg > 20 AND kg ≤ 50 THEN  
    cost ← (20 * 10) + (kg - 20) * 20  
ELSE  
    cost ← (20 * 10) + (30 * 20) +(kg-50)*100
```

```
END IF
```

```
total ← (seats * seat_cost) + cost  
PRINT seats, " seats confirmed"  
PRINT "Remaining seats:", remaining_seats  
PRINT "Total cost:", total  
PRINT "Booking confirmed. Thank you!"  
ELSE  
    PRINT "Sorry, seats unavailable"  
END IF
```

```
ELSE IF choice == 2 THEN
```

```
    PRINT "Enter name linked with booking:"  
    INPUT name  
    PRINT "Enter reference ID:"  
    INPUT ri  
    PRINT "Your flight is cancelled. Refund in 2 days."  
    PRINT "Thank you."  
ELSE IF choice == 3 THEN
```

```
    PRINT "Exit"  
    PRINT "Thank you."
```

```
ELSE
```

```
    PRINT "Invalid option."
```

```
END IF
```

```
END
```

SOURCE CODE

```

//FLIGHT BOOKING SYSTEM

#include<stdio.h>

int main(){
    int choice,destiny,seats,available_seats,remaining_seats,seat_cost,total,kg,cost;
    char name[100],ri[100];
    printf("welcome to flight booking porto\n1.Book a flight\n2.cancel flight\n3.Exit\nEnter
your choice no:");
    scanf("%d",&choice);
    if(choice==1)
    {
printf("available flights are:\n1.HYD-VIZAG\n2.HYD-RJY\n3.HYD-BENGLORE\nenter
your destination
choice no:\n");
    scanf("%d",&destiny);
    if(destiny==1){
        available_seats=20;
        seat_cost=2000;
        printf("Your destiny is vizag\nTimings:10:00AM-11:30AM\nSeat
Cost=2000\navailable seats:20\nselect no.of seats:");
        scanf("%d",&seats);
        if(seats<=available_seats){
            printf("luggage charges:\n20kgs or below:10rupees per kg\n20 to
50kgs:20rupees per kg\nlimited luggage weight 50kgs\n ");
            printf("enter your luggage weight:");
            scanf("%d",&kg);
            if(kg<=20){
                cost=kg*10;
            }
            else if(kg>20&&kg<=50){
                cost=10*20+(kg-20)*20;
            }
            else{
                cost=10*20+30*20+(kg-50)*100;
            }
            remaining_seats=available_seats-seats;
            total=seats*seat_cost+cost;
        }
    }
}

```

```

        printf("%d seats are confirmed\nremaining seats:%d\nTotal cost:%d\nYour
booking is confirmed\nThank you\n",seats,remaining_seats,total);
    }

else{
    printf("Sorry! %d seats are unavailable",seats);
}

else if(destiny==2){
    available_seats=18;
    seat_cost=1500;
    printf("Your destiny is Rajahmundry\nTimings:9:00AM-11:30AM\navailable
seats:18\nCost per seat:1500\nSelect no.of seats:");
    scanf("%d",&seats);
    if(seats<=available_seats){
        remaining_seats=available_seats-seats;
        printf("Luggage charges:\n20kgs or below:10rupees per kg\n20 to
50kgs:20rupees per kg\nLimited luggage weight 50kgs\n");
        printf("Enter your luggage weight:");
        scanf("%d",&kg);
        if(kg<=20){
            cost=kg*10;
        }
        else if(kg>20&&kg<=50){
            cost=10*20+(kg-20)*20;
        }
        else{
            cost=10*20+30*20+(kg-50)*100;
        }
        total=seats*seat_cost+cost;
        printf("%d seats are confirmed\nremaining seats:%d\nTotal cost:%d\nYour
booking is confirmed\nThank you\nHave a safe Journey",seats,remaining_seats,total);
    }
    else{
        printf("Sorry! %d seats are unavailable",seats);
    }
}

```

```

else if(destiny==3){
    available_seats=28;
    seat_cost=2200;
    printf("Your destiny is Bengaluru\nTimings:9:00AM-11:30AM\navailable
seats:28\ncost per seat:2200\nselect no.of seats:");
    scanf("%d",&seats);
if(seats<=available_seats){
    remaining_seats=available_seats-seats;
    printf("luggage charges:\n20kgs or below:10rupees per kg\n20 to
50kgs:20rupees per kg\nlimited luggage weight 50kgs\n ");
    printf("enter your luggage weight:");
    scanf("%d",&kg);
    if(kg<=20){
        cost=kg*10;
    }
    else if(kg>20&&kg<=50){
        cost=10*20+(kg-20)*20;
    }
    else{
        cost=10*20+30*20+(kg-50)*100;
    }
    total=seats*seat_cost+cost;
    printf("%d seats are confirmed\nremaining seats:%d\ntotal cost:%d\nyour
booking is confirmed\nthankyou\nHave a great journey",seats,remaining_seats,total);
}
else{
    printf("sorry! %d seats are unavailable",seats);
}
else{
    printf("invalid choice");
}
else if(choice==2){
printf("enter your name linked with booking:");
scanf("%s",&name[100]);
}

```

```
printf("enter your reference id:");
scanf("%s",&ri[100]);
printf("your flight ticket is cancelled\nyour money will be transferred to your bank
account within two working days\n");
printf("thank you");

}

else if(choice==3){
    printf("exit\n");
    printf("thank you\n");
}
else{
    printf("enter valid option");
}

}
```

output

```
welcome to flight booking portol
1.Book a flight
2.cancel flight
3.Exit
Enter your choice no:1
available flights are:
1.HYD-VIZAG
2.HYD-RJY
3.HYD-BENGLORE
enter your destination choice no:
1
Your destiny is vizag
Timings:10:00AM-11:30AM
Seat Cost=2000
available seats:20
select no.of seats:10
luggage charges:
20kgs or below:10rupees per kg
20 to 50kgs:20rupees per kg
limited luggage weight 50kgs
enter your luggage weight:10
10 seats are confirmed
remaining seats:10
total cost:20100
your booking is confirmed
Thankyou
```

```
...Program finished with exit code 0
Press ENTER to exit console.[]
```

THE END