

SPAPK PROJECT 01 : Travel Booking System

C++ Based Project on Booking Management System

Team Name: Tech Squad

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What This Project is About ?

- A basic C++ program that help manage travel bookings.
- Create, update, and delete bookings
- Store all data in a file (bookings.txt)
- Manage bookings using C++ class

Project Overview

- Each booking includes:
 - - Passenger Name
 - - Phone Number
 - - Destination
 - - Seat Number
 - - Booking ID
- All bookings are stored in a file

Key Functions

- `inputDetails()` - Takes user inputs and validates it
- `saveToFile()` - Saves booking to a file
- `editBooking()` - Lets user change their details
- `cancelBooking()` - Cancels a booking using ID
- `searchBooking()` - Searches bookings by name or place
- `seatAvailabilty()` - Tells which seat are booked or available
- `displayAllTabular()` - Displays in table format
- Validation for name, age, phone number, destination

Menu

- Program uses a do-while loop with menu options
- Keep running until user selects Exit (8)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS D:\Code\C++> cd "d:\Code\C++\" ; if ($?) { g++ sparkproject.cpp -o sparkproject } ; if ($?) { .\sparkproject }
```

```
**** Travel Booking System ****
```

1. Add Booking
2. Show All Bookings
3. Cancel Booking
4. Edit Booking
5. View Bookings
6. Search Bookings
7. Check Seat Availability
8. Exit

```
Enter your choice:
```

Choosing Destination Easily

- Instead of typing city names, user just picks a number
- Simple switch – case used to map choice to destination

Select Destination:

1. Delhi
2. Mumbai
3. Chennai
4. Bangalore
5. Kolkata
6. Amritsar
7. Shimla
8. Jaipur
9. Jodhpur
10. Dehradun

Enter your choice (1-10):

File Handling

- Bookings stored in bookings.txt
- Edit/Delete using temp.txt as intermediate file
- Read/write with fstream (ifstream/ofstream)

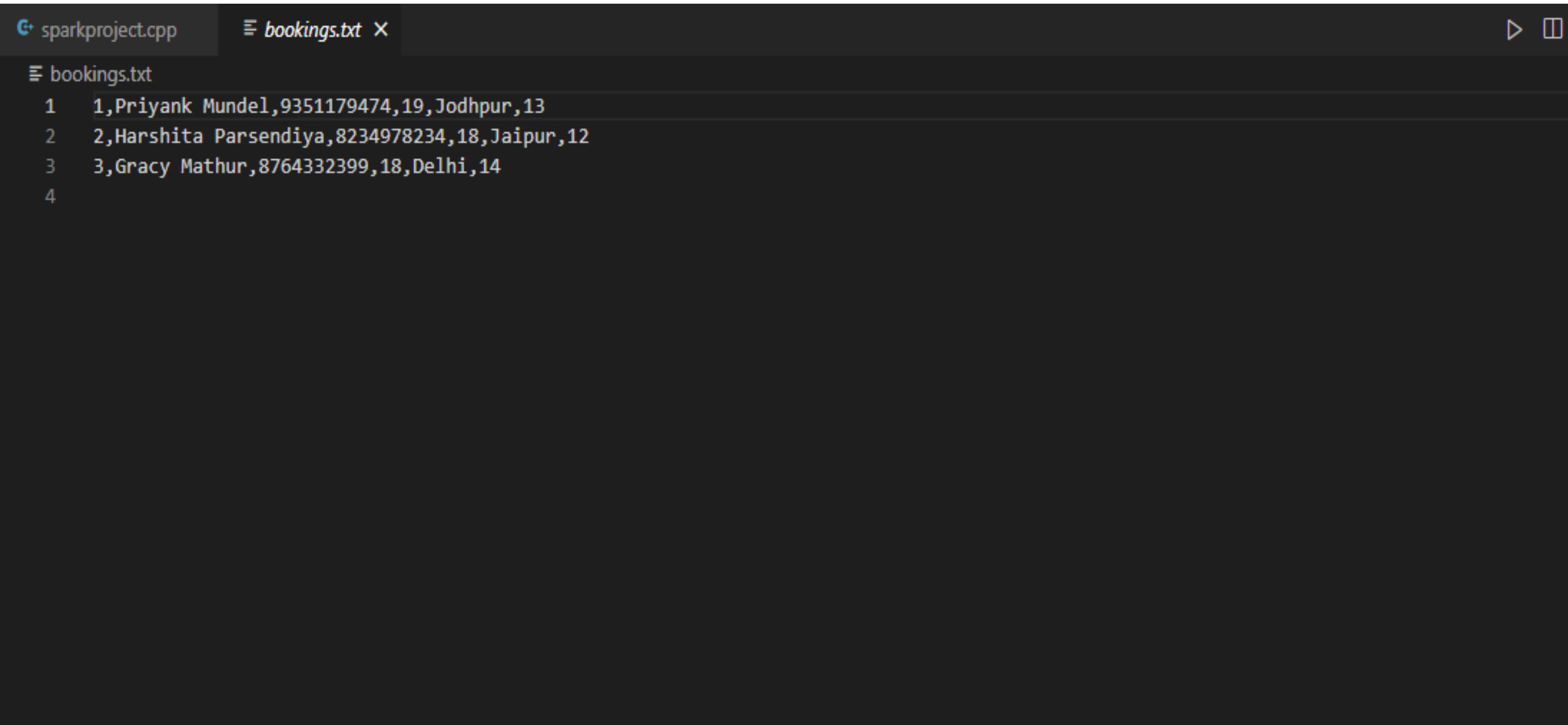
Sample Booking Data

- 1, Harshita Parsendiya, 8234978234, 18 , Jaipur, 12
- 2, Priyank Mundel,9351179474, 19 , Jodhpur , 13
- 3, Gracy Mathur,8764332399, 18 , Delhi, 14

Order of Data :

BookingID, Name, Phone Number, Age, Destination, Seat No.

Screenshot Sample Booking Data



The screenshot shows a code editor with two tabs: 'sparkproject.cpp' and 'bookings.txt'. The 'bookings.txt' tab is active, displaying a list of three booking entries. Each entry is a comma-separated string containing an ID, a name, a phone number, an age, a city, and a date. The entries are numbered 1, 2, and 3 on the left margin.

```
1 1,Priyank Mundel,9351179474,19,Jodhpur,13
2 2,Harshita Parsendiya,8234978234,18,Jaipur,12
3 3,Gracy Mathur,8764332399,18,Delhi,14
4
```

Conclusion

- This project helped us learn :
 - Classes and Objects
 - Input Validation
 - File Input/Output in C++
 - How to make a simple real world system