

RAILWAY TICKET BOOKING SYSTEM IN C

MINI PROJECT REPORT

Name : Lakshya Kanodia

SAP ID : 590027644

Batch : 53

College : UPES

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Department of Computer Science

UPES

1. INTRODUCTION

The Railway Ticket Booking System is a simple C programming project developed to demonstrate real-world application of programming concepts. This system allows users to book, view, search, and cancel railway tickets using a menu-driven program.

2. OBJECTIVE

The main objective of this project is to:

- Understand the use of structures in C
- Learn file-less data storage using arrays
- Implement real-world logic using C programming
- Improve logic-building skills

3. TOOLS & TECHNOLOGY USED

- Programming Language: C
- Compiler: GCC
- Operating System: Windows
- Editor: VS Code

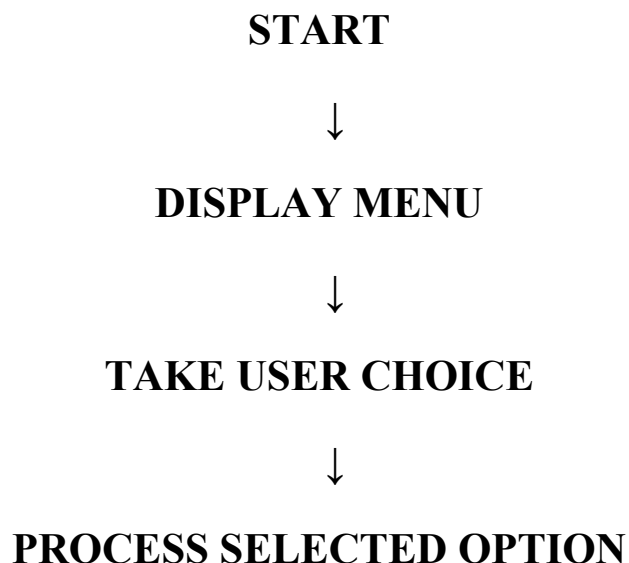
4. FEATURES OF THE SYSTEM

- Book a new ticket
- View all booked tickets
- Search a ticket using ticket number
- Cancel an existing ticket
- Automatic ticket number generation
- Simple menu-driven system

5. ALGORITHM

1. Start
2. Display main menu
3. Accept user choice
4. If user selects:
 - Book Ticket → Enter passenger details
 - View Tickets → Display all records
 - Search Ticket → Search by ticket number
 - Cancel Ticket → Remove existing record
5. Repeat until user chooses Exit
6. Stop

6. FLOWCHART (TEXT FORMAT)





BACK TO MENU



EXIT

7. DATA FLOW DIAGRAM (DFD) – TEXT VERSION

**USER → INPUT DATA → SYSTEM PROCESSING →
OUTPUT DISPLAYED**

8. SOURCE CODE

(The complete C program for the Railway Ticket Booking System is written and attached separately using structures, arrays, functions, and switch-case statements.)

9. APPLICATIONS

- Used in railway reservation simulation
- Suitable for learning C programming
- Helps in understanding management systems
- Useful for academic mini-projects

10. ADVANTAGES

- Easy to understand
- User-friendly
- Saves time
- Reduces manual work
- Improves programming skills

11. LIMITATIONS

- No database is used
- Data is lost after program closes
- Limited number of tickets
- No online payment system

12. FUTURE ENHANCEMENTS

- Can be connected to a database
- Online ticket booking
- Payment gateway integration
- Mobile app version
- Seat selection system

13. CONCLUSION

The Railway Ticket Booking System project is a simple and effective mini project written in C. It helps students understand how real-world systems work and how C programming can be used to build practical applications. This project improves logical thinking and coding skills.