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# Jaypee institute of information technology

(Deemed to be university under section 3 of  
UGC Act 1956) Sector 62, Noida



## Software Development Fundamentals Lab-1 (24B15CS111)

### Airplane Ticket Booking System - Project Synopsis

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# SUMMARY

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## **Brief overview of project:**

This project simulates an Airplane Ticket Booking System, similar in concept to online platforms like IRCTC or MakeMyTrip. It allows users to search for flights between two destinations and displays details such as flight number, airline, time, and price. The system checks availability of flights and provides external links to the corresponding airline website based on user input.

This project demonstrates the use of C language for logic and HTML/CSS for front-end visualization. Future enhancements may include API integration or database support to fetch real-time flight data dynamically.

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# INTRODUCTION

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## **Introduction**

### **Background and Context:**

With the rise of air travel, passengers often need quick access to flight information such as schedules, routes, airlines, and seat availability. Current systems either require booking accounts or do not provide real-time data efficiently. A web-based Flight Information System helps users easily check flight details without booking, making travel planning smoother and faster.

### **Problem Statement:**

Many users face difficulty in accessing accurate flight information quickly. Existing platforms may be cluttered, require registration, or do not provide real-time data. Users need a simple and efficient system to search and view flight details based on their preferences.

### **Project Objectives:**

1. Provide users with accurate and up-to-date flight information.
2. Enable search based on source, destination, date, and airline.
3. Offer a clean, user-friendly interface for easy navigation.
4. Integrate with a database or API to fetch real-time flight data.
5. Provide links for external booking options without handling ticketing directly.

### **Scope of the Project:**

- Users can search flights by source, destination, and date.
- Display airline, timing, and seat availability information.

- Provide links to external booking platforms.
- Focus only on information retrieval, not ticket booking.
- Backend integration ensures updated and reliable data.
- Accessible via web browsers for convenience across devices.

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## System Requirements

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### Functional Requirements:

- Operating System: Windows 10 or later
- Processor: Intel Pentium 4 processor or modern equivalent processor
- Memory (RAM): 4 GB
- Storage: 50 GB HDD
- C compiler installed
- Browser installed
- Internet Connection: stable

### Non -Functional Requirements :

- User able to read text from computers
- Basic knowledge to work with computers
- Willingness to work with computer

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## Design and Implementation

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### SRS Document

What the Flight Information System is meant to do and how it functions.

- **Purpose:** To show flight details such as airline name, timing, and seat availability.
- **Inputs:** Source, destination, and travel date given by the user.
- **Outputs:** List of flights with details and links for booking externally.
- **Features:** Easy search system, clear result display, and simple user interface.

### Flow Chart

The working of the system can be understood with this simple flow:

**Start → Enter Source, Destination, and Date → Search Flights → Show Flight Details → Provide Booking Link → End**

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## Conclusion:

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The Flight Information System makes it easy for users to find flight details by entering their source, destination, and travel date. It helps people check flight availability, airline names, and timings quickly, without needing to book tickets. The project shows how a simple program can help users get useful travel information easily.

### Summary & Achievement of Objectives:

This project successfully meets its main goals:

- It allows users to search flights by entering simple details.
- It shows flight name, time, and availability clearly.
- It gives links for further booking if needed.
- It uses basic programming logic and simple design to display information correctly.

### Future Work and Recommendations:

- A ticket buying system can also be integrated.
  - A login system can be added for personalized flight searches.
  - A mobile version or app can make it more accessible.
  - Future updates can include features like price comparison, seat selection, and notifications for flight delays or offers.
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## References

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List of all sources cited in the report:

- Official Airline Websites - ( for flight route and timing information.)
- <https://www.irctc.co.in> - (reference for interface and travel information design.)
- <https://www.makemytrip.com> - ( for understanding flight search layouts.)
- <https://www.cleartrip.com>
- GeeksforGeeks and TutorialsPoint (C language basics).