Project Design Phase-II

Data Flow Diagram & User Stories

Date	31 January 2025
Team ID	LTVIP2025TMID53108
Project Name	Flight Finder
Maximum Marks	4 Marks

Data Flow Diagrams:

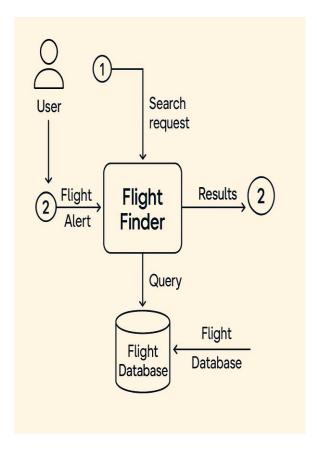
A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Simplified:

Main Process: Flight Search Engine (Process 0)

This is the central processing unit that handles all incoming and outgoing data:

- Accepts user search input
- Sends queries to Airline APIs
- Processes results via filtering, indexing, and sorting
- Returns personalized results to the user
- Logs interaction metrics for admin analysis



Context-Level (Level 0) DFD: Flight Finder

Purpose: To provide a high-level overview of how external entities interact with the core Flight Finder system and how data flows among them.

External Entities

- **User (Traveler)**: Initiates flight searches, sets preferences, receives results.
- Airline APIs: Provide flight schedules, real-time pricing, and seat availability.
- Admin: Manages system settings, monitors usage, analyzes performance metrics.

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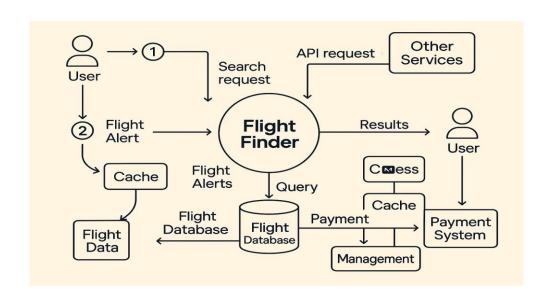
Data Stores

- **Flight Database**: Stores cached results, indexed routes, and pricing history.
- User Profiles: Search history, saved alerts, preferences.
- **Analytics Store**: Logs performance metrics, popular queries, and error reports.

Data Flows

- User \rightarrow Search Query \rightarrow Flight Finder
- Flight Finder \rightarrow API Calls \rightarrow Airline APIs
- Airline APIs \rightarrow Flight Results \rightarrow Flight Finder
- Flight Finder \rightarrow Filtered Results \rightarrow User
- Flight Finder ↔ Flight Database: For caching & indexing
- Admin ↔ Analytics: For monitoring and optimization

If you're ready, I can help sketch out a **Level 1 DFD** next—where each major subprocess (search, indexing, alerting) is broken down further. Want to dive into that?



Here's a concise table with key **user stories** for the Flight Finder project—focused and streamlined for quick reference:

₹ Flight Finder – Core User Stories (Mini Table)

User Type	Epic	User Story	Priority	Sprint
Mobile User	Registration	Sign up with email and social logins	High	Sprint-1
Mobile User	Search Flights	Search using filters (date, airline, etc.)	High	Sprint-2
Mobile User	Alerts	Set price-drop alerts for favourite routes	High	Sprint-3
Web User	Search & Book	Find and book flights via partner redirects	Medium	Sprint-2
Customer Support	Ticket Handling	Respond to flight issues and user tickets	High	Sprint-3
Administrator		Monitor user behaviour and system performance	High	Sprint-2