

Airline booking system

Flight Booking Management System is a software application that enables users to search, book, and manage their flight bookings. This system allows passengers to book flights and view their bookings, as well as administrators to manage bookings, flights, and passenger information.

Developer

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Date

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Technologies used:

C++ programming language

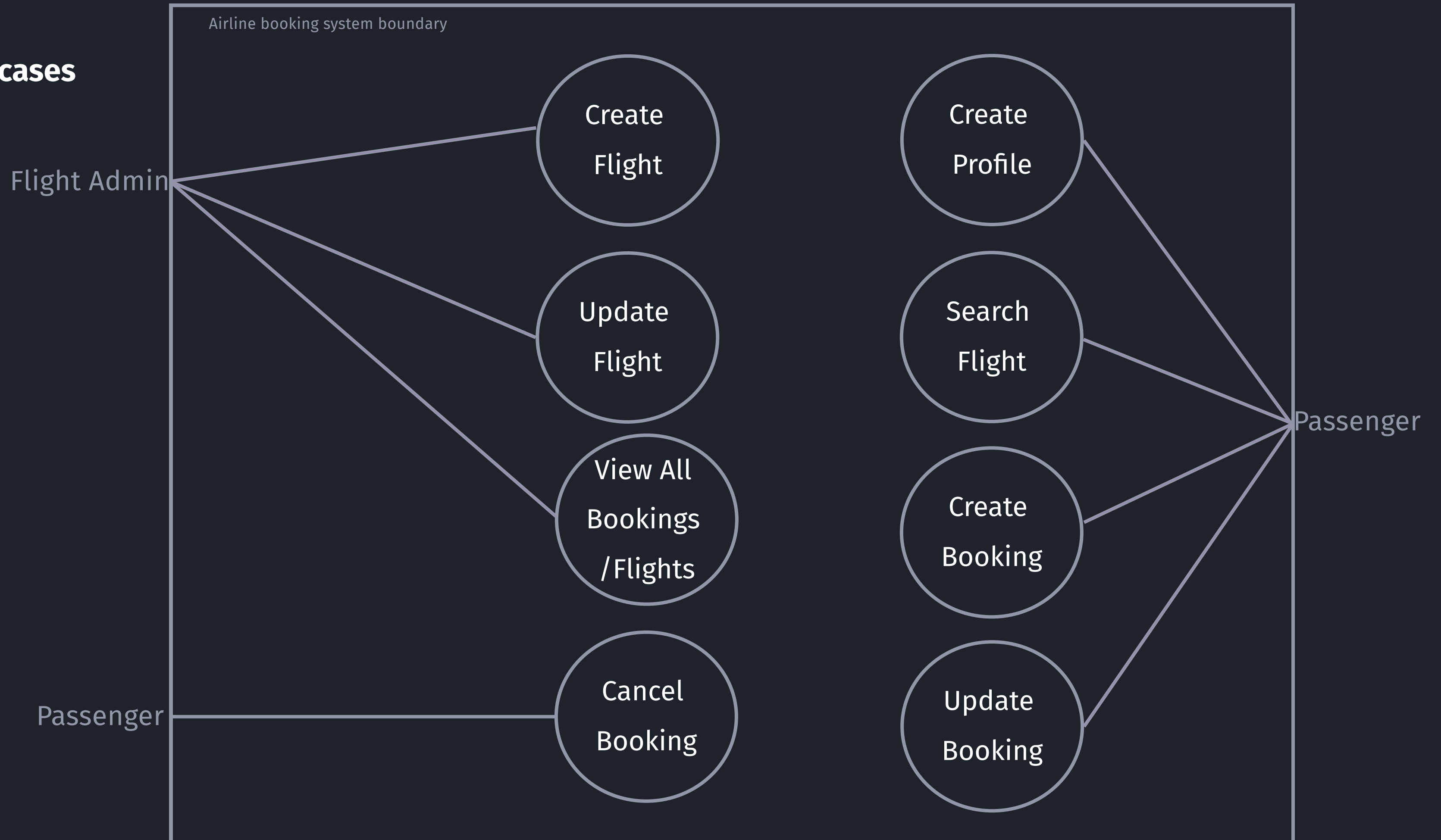
Object-Oriented Programming (OOP) concepts

MySQL database for data storage

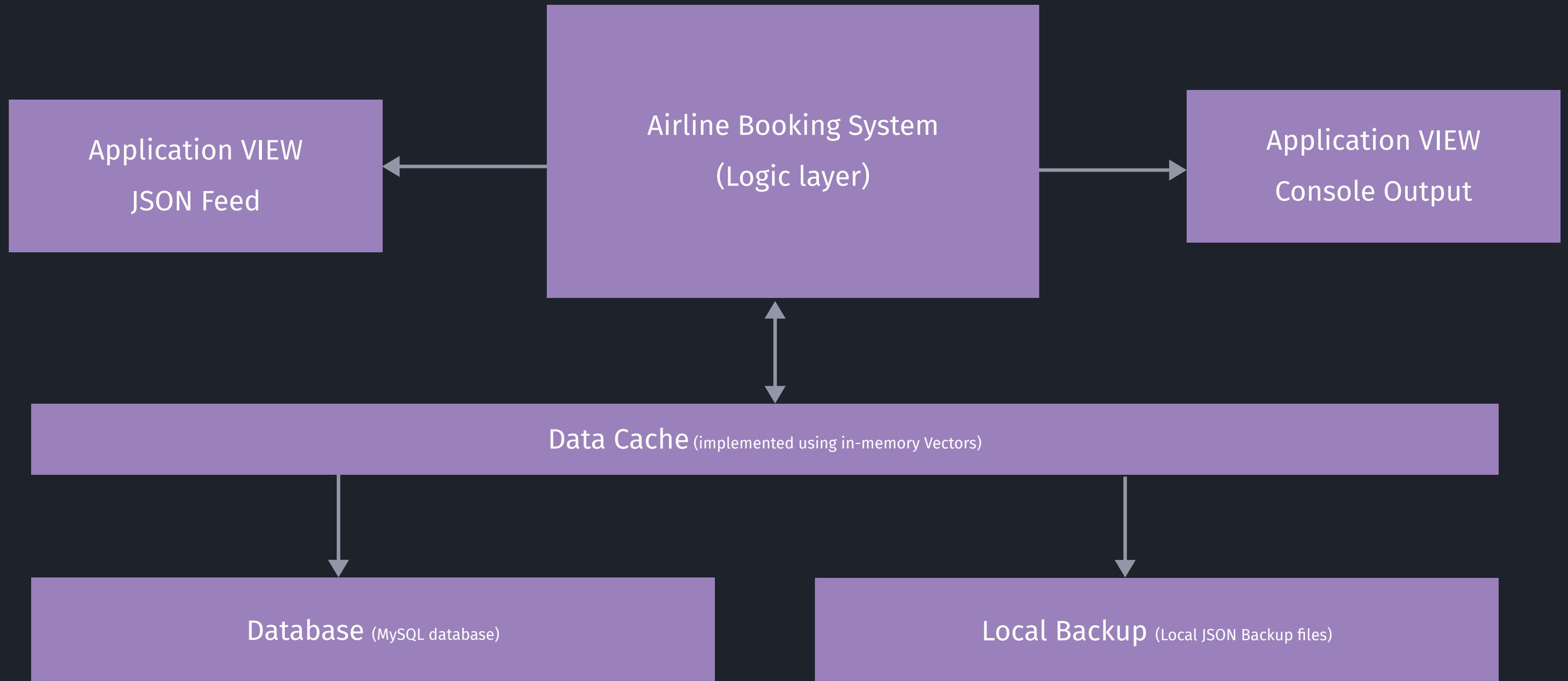
JSON for data serialization

Windows Console Application for the user interface

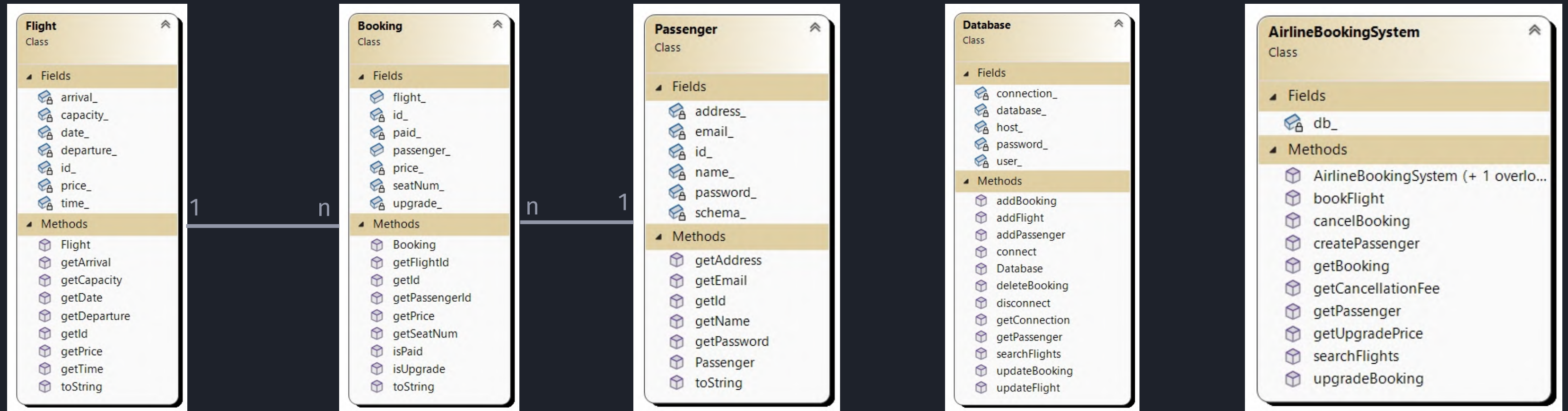
Use cases



Data Persistence



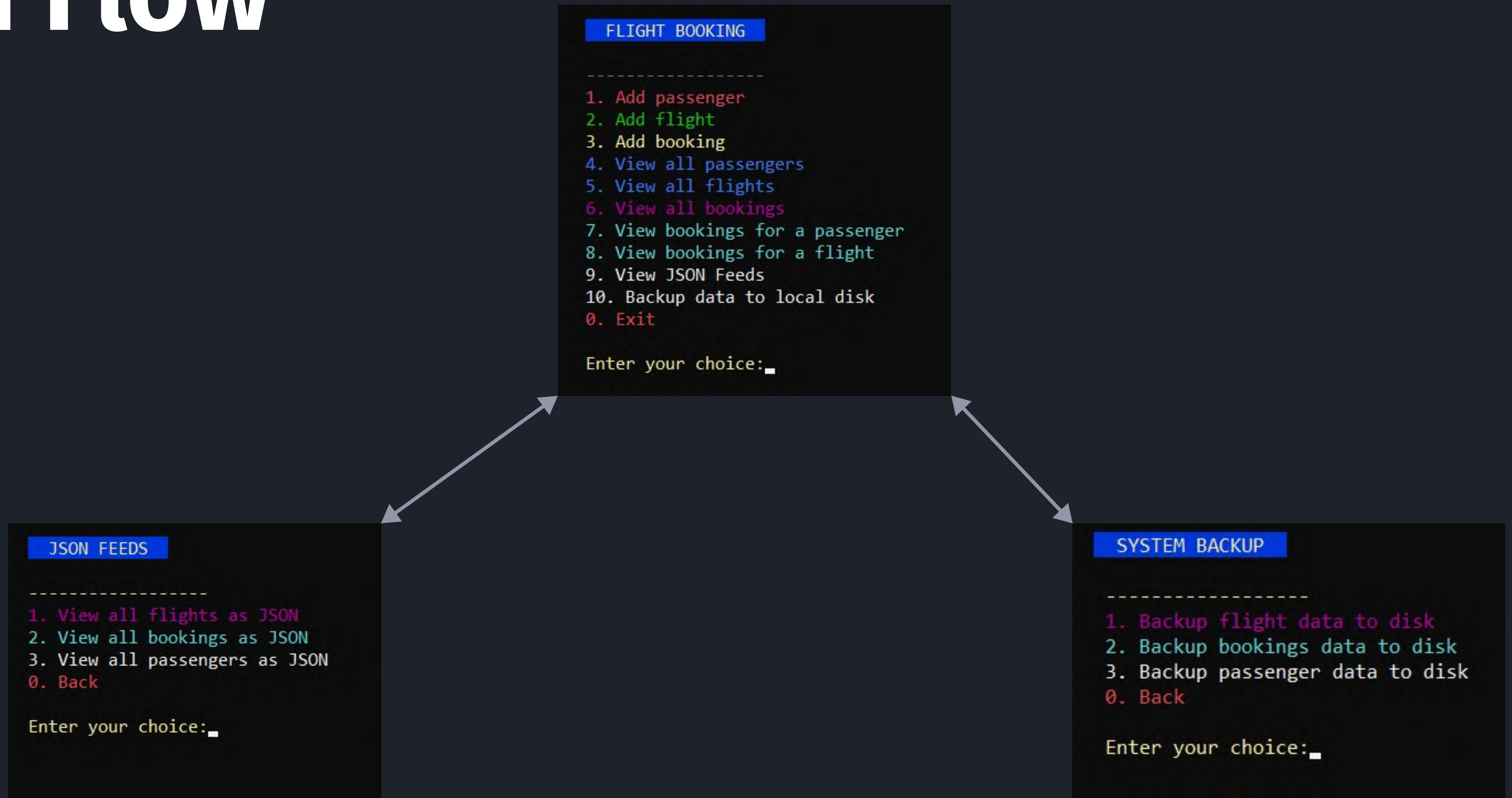
Class Diagrams



Persistence class

Repository class

UI Flow



Features Review:

User account creation: Passengers can create accounts to book and manage their flights.

Flight booking: Passengers can search for available flights and book them based on their preferences.

Booking management: Passengers can view their bookings and manage them, including cancelling or changing flight details.

Flight management: Administrators can add, edit, or delete flights from the system.

Passenger management: Administrators can add, edit, or delete passenger information from the system.

Booking management: Administrators can view, edit, or cancel bookings made by passengers.

Backup and restore functionality: The system includes a backup and restore feature to ensure data safety.

Create Flight

Book Flight

Passenger Profile

Data Backup / JSON

Conclusion

Flight Booking Management System is an efficient and user-friendly application that streamlines flight booking and management processes for passengers and administrators. The use of OOP, MySQL database, and JSON for data serialization makes the system scalable and easy to maintain. This system can be used by airline companies or travel agencies to manage their flight bookings and improve customer satisfaction.