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

.3 MARCH 2023



Technologies used:

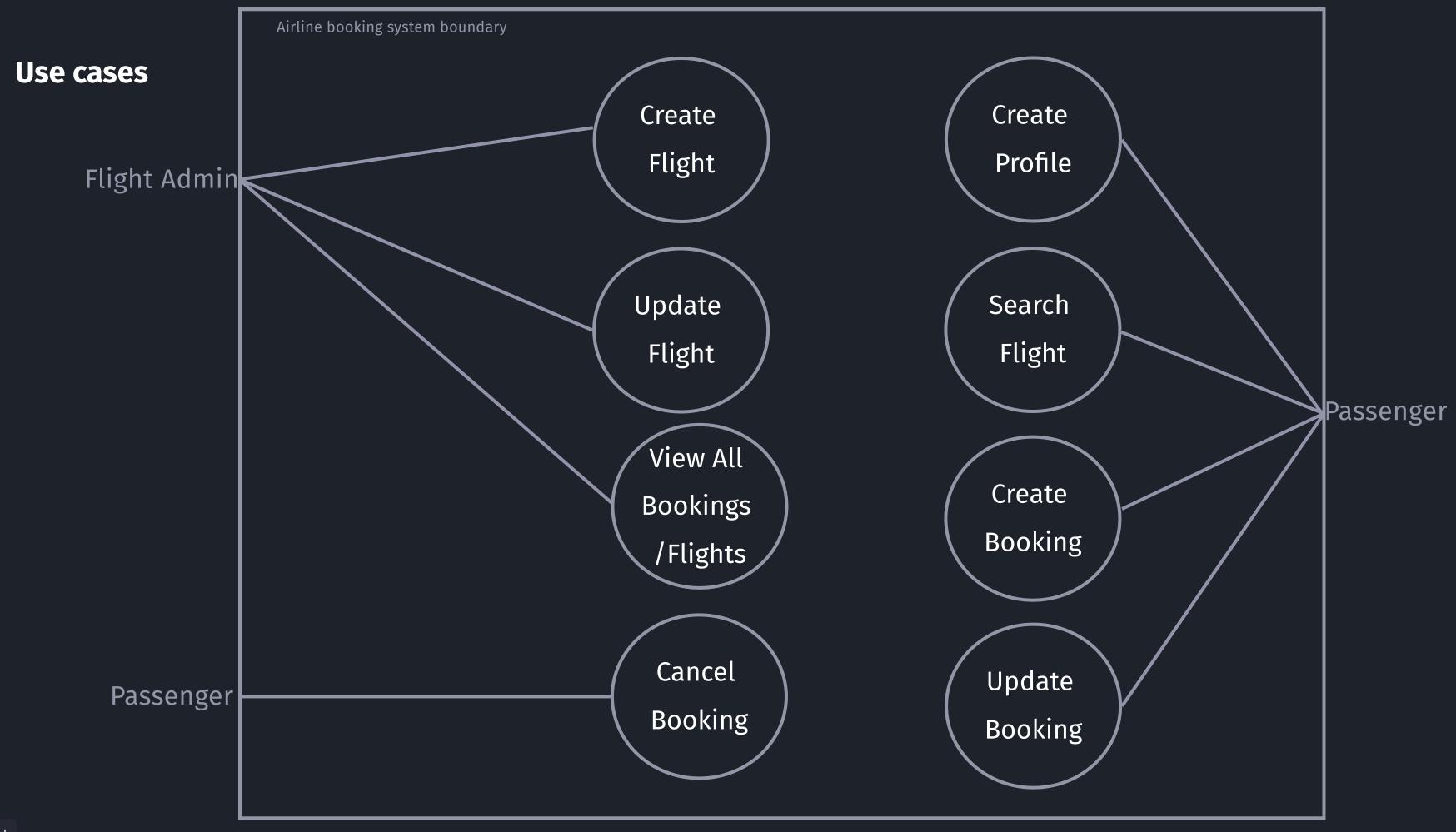
C++ programming language

Object-Oriented Programming (OOP) concepts

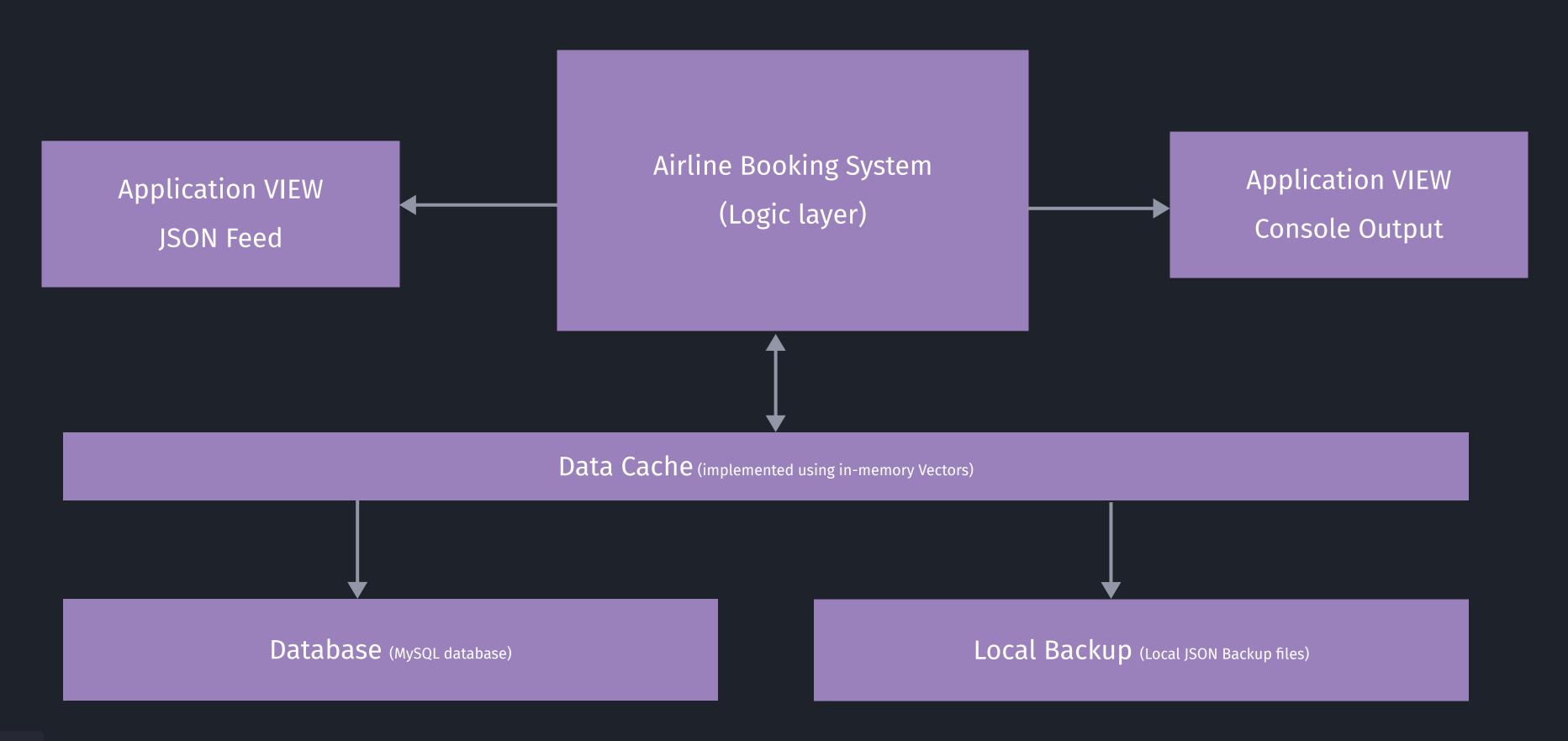
MySQL database for data storage

JSON for data serialization

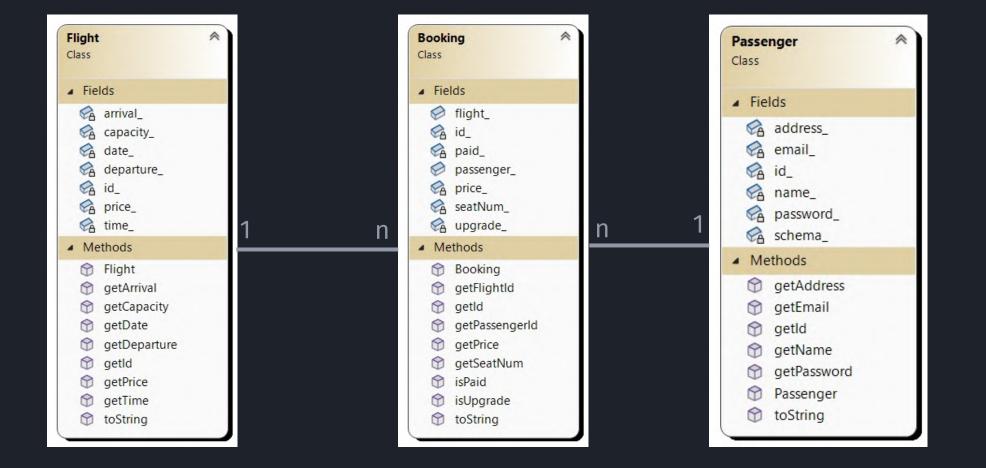
Windows Console Application for the user interface

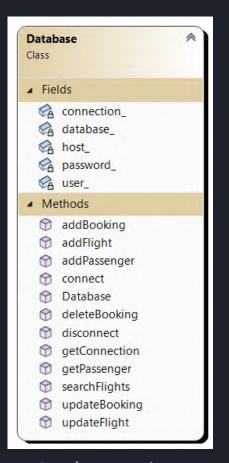


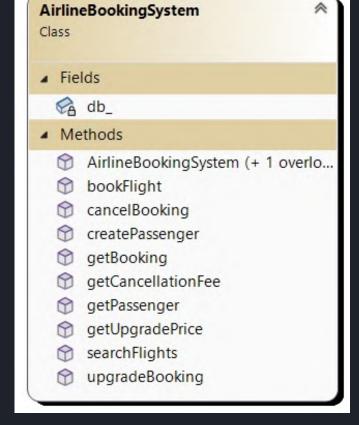
Data Persistence



Class Diagrams







Persistence class

Repository class

UI Flow

FLIGHT BOOKING

- 1. Add passenger
- 2. Add flight
- Add booking
- 4. View all passengers
- 5. View all flights
- 6. View all bookings
- 7. View bookings for a passenger
- 8. View bookings for a flight
- 9. View JSON Feeds
- 10. Backup data to local disk
- 0. Exit

Enter your choice:_

JSON FEEDS

- 1. View all flights as JSON
- 2. View all bookings as JSON
- 3. View all passengers as JSON
- 0. Back

Enter your choice:_

SYSTEM BACKUP

- 1. Backup flight data to disk
- 2. Backup bookings data to disk
- 3. Backup passenger data to disk
- 0. Back

Enter your choice:_

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.