Backlog

1. Flights Service

- > Implement Create Flight feature using Command Pattern
- > Implement Update Flight feature using Command Pattern
- > Implement Delete Flight feature using Command Pattern
- > Implement Undo/Redo functionality for Create/Update/Delete flights
- > Implement simple queries (list all flights) using Query Object Pattern
- Implement detailed flight queries using Query Object Pattern
- > Sync flight data between PostgreSQL and Elasticsearch with Signal (Observer Pattern)
- > Implement indexing of flight data in Elasticsearch

2. Flights Filter Service

> Implement advanced search filters in Elasticsearch for flights

3. Train Service

- > Implement Create Train feature using Command Pattern
- > Implement Update Train feature using Command Pattern
- > Implement Delete Train feature using Command Pattern
- > Implement Undo/Redo functionality for Create/Update/Delete trains
- > Implement simple queries (list all trains) using Query Object Pattern
- > Implement detailed train queries using Query Object Pattern
- Sync train data between PostgreSQL and Elasticsearch with Signal (Observer Pattern)
- > Implement indexing of train data in Elasticsearch

4. Trains Filter Service

> Implement advanced search filters in Elasticsearch for Trains

5. Profiles Mirco Service

- > Implement Create Profile feature using Service Layer Pattern
- > Implement Update Profile feature using Service Layer Pattern
- > Implement Delete Profile feature using Service Layer Pattern
- > Implement simple queries (list all profiles)
- Implement detailed profile queries

6. Authentication & Authorization Micro Service

- Implement user signup
- > Implement user login
- > Implement password change feature
- Implement Role-Based Access Control (RBAC)
- > Implement dynamic permission management

7. Wallet Service

- > Implement Create Wallet feature for users by User National Code
- > Implement Update Wallet feature
- > Save wallet transaction history
- Wallet Credit by gRPC and Observer Pattern communicate with Payment Gateway Service
- > Wallet Debit by gRPC and Observer Pattern communicate with Refund Service

8. Payment Gateway Service

- > Implement Create PaymentGateway
- Implement Update PaymentGateway
- > Implement Simple Queries on PaymentGateway Model
- > Implement Communicate with Wallet Service by gRPC with Observer Pattern
- > Implement Communicate with Reservation Service by gRPC with Observer Pattern

9. Refund Service

- > Implement Create Refund request feature
- > Implement Update Refund request feature

10. Reservation Service

- > Implement hotel reservation in two steps (operator-based)
- > Implement reservation of flights, tours, and trains with Kafka event producer
- > Implement conditions for triggering reservations

11. Notification Service

- > Implement event-driven notification system
- > Create notification queues and listeners

12. Hotel Service

- > Implement Create Hotel feature
- > Implement Update Hotel feature
- > Implement Delete Hotel feature
- > Implement simple queries (list all hotels)
- > Implement detailed hotel queries
- > Sync hotel data between PostgreSQL and Elasticsearch
- > Implement indexing of hotel data in Elasticsearch

13. Hotel Search Service

> Implement advanced search filters in Elasticsearch for hotels

14. Hotel Reviews Service

- > Implement Create Hotel Review feature
- > Implement Update Hotel Review feature
- > Implement Delete Hotel Review feature
- > Implement advanced queries for hotel reviews