

Functional Requirement

- 1. user can search route
- 2. user can book ticket
- 3. user can see own tickets

Non Functional Requirement

- 1. Availability > Consistency for search route & Availability < Consistency for create ticket
- 2. around 1mln users
- 3. low letency 200ms to book the ticket

Route	Station	Ticket
id firstStation startTime availabeSeats	id name nextStation price 	id userId routeId fromStation toStation

1. Route search - api/v1/booking/route?fromStation={Tosh}&toStation={Sam}&date={2025.02.10}

2. Book ticket - api/v1/booking/ticket

```
{
userId: 10,
fromStation: "Tosh",
toStation: "Qash",
price: 10,
routeId: 888888
```

3. Own tickets - api/v1/user/{userId}/ticket Redis message, Redis give my own tickets Postgres User Service **P**ostgres User Service Mongo message Kafka Booking ^Api service Gatewsy message Client Mongo **Booking** update status service JOB Notification **Postgres** Service Notification Service Postgres message

