## Hotel room booking application

### \*\*I have User Intelijj Community Edition hence all application should be ran separately\*\*\*

- 1. **Booking service** This service is responsible for collecting all information related to user booking and sending a confirmation message once the booking is confirmed.
- 2. **Payment service** This is a dummy payment service; this service is called by the booking service for initiating payment after confirming rooms.
- 3. **Eureka-service** Setup of the eureka server for registering both the application.

## **Important Note:** Database used is H2. \*\*\*\*

Step 1: Start Booking-service, Payment-service application and Eureka-server application.

#### Eureka server:

```
2022-07-25 13:13:09.747 INFO 7920 --- [ Thread-10] o.s.c.n.e.server.EurekaServerBootstrap : isAws returned false
2022-07-25 13:13:09.747 INFO 7920 --- [ Thread-10] o.s.c.n.e.server.EurekaServerBootstrap : Initialized server context
2022-07-25 13:13:09.747 INFO 7920 --- [ Thread-10] o.n.e.r.PeerAwareInstanceRegistryImpl : Got 1 instances from neighboring DS node
2022-07-25 13:13:09.747 INFO 7920 --- [ Thread-10] o.n.e.r.PeerAwareInstanceRegistryImpl : Renew threshold is: 1
2022-07-25 13:13:09.747 INFO 7920 --- [ Thread-10] o.n.e.r.PeerAwareInstanceRegistryImpl : Changing status to UP
2022-07-25 13:13:09.757 INFO 7920 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8761 (http) with context path ''
2022-07-25 13:13:09.779 INFO 7920 --- [ main] o.s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 8761
2022-07-25 13:13:09.779 INFO 7920 --- [ Thread-10] e.s.EurekaServerInitializerConfiguration : Started Eureka Server
```

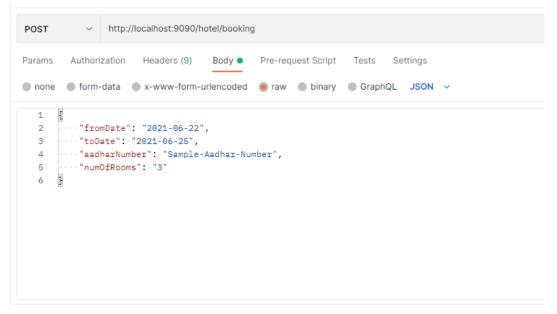
#### Payment Server:

### **Booking Server:**

```
2022-07-25 12:57:04.02 INFO 22508 -- [ main] c.m.discovery_InstructionSepticator
2022-07-25 12:57:04.02 INFO 22508 -- [ main] c.m.discovery_InstructionSepticator
2022-07-25 12:57:04.03 INFO 22508 -- [ main] c.m.effile discovery_InstructionSepticator
2022-07-25 12:57:04.03 INFO 22508 -- [ main] c.s.c.m.e.s.Epressorv_Codegainty
2022-07-25 12:57:04.04 INFO 22508 -- [ main] c.s.c.m.e.s.Epressorv_Codegainty
2022-07-25 12:57:04.04 INFO 22508 -- [ main] c.s.c.m.e.s.Epressorv_Codegainty
2022-07-25 12:57:04.05 INFO 22508 -- [ main] c.s.m.e.s.Epressorv_Codegainty
2022-07-25 12:57:04.05 INFO 22508 -- [ mai
```

### **API Number 1 (Booking Service):**

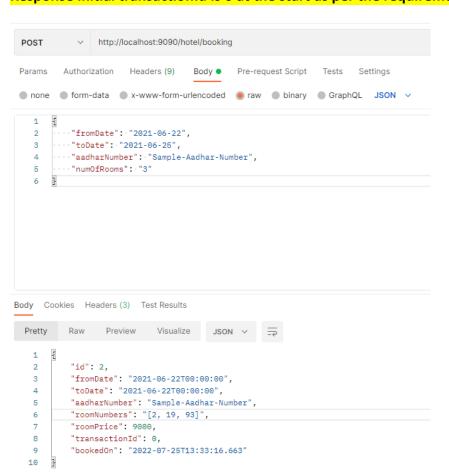
API: http://localhost:9090/hotel/booking



Response for booking service amount generated with particular set of code as shown below

```
(1000 * request.getNumOfRooms() * numberOfDays))

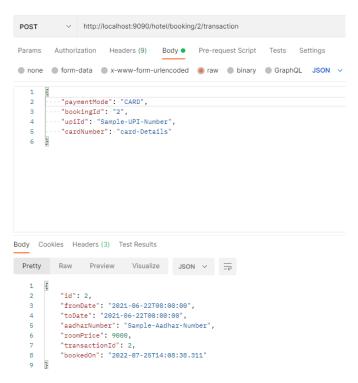
Response initial transactionId is 0 at the start as per the requirement.
```



### API number 2: To get the transaction details.

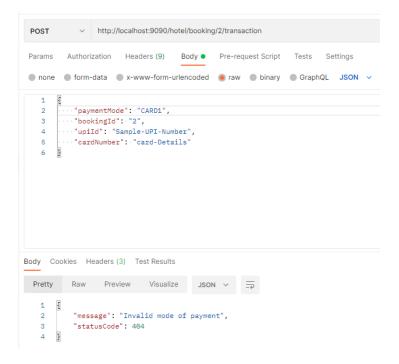
This API makes a call too payment service to store the values into transaction table, which will help in generating transactionId which can we use to check weather payment against particular booking is completed or is incomplete.

### POST API http://localhost:9090/hotel/booking/2/transaction



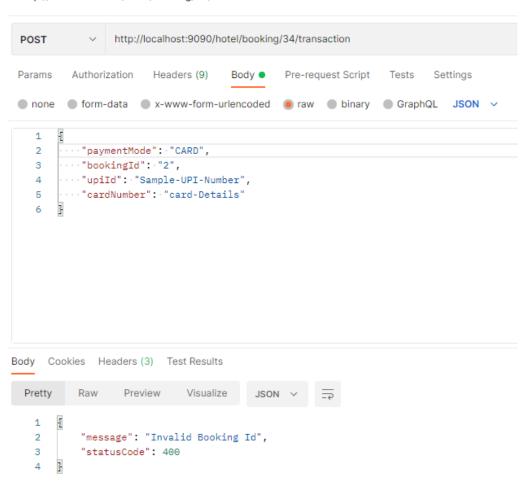
There are few checks involved.

1. Payment Mode should be only in "CARD" or "UPI", if payment Mode is done using any other way error will be displayed stating "message": "Invalid mode of payment".



2. Add on check for Invalid bookingId, if we have any invalid booking id response generated will be as follows for the particular API

http://localhost:9090/hotel/booking/34/transaction

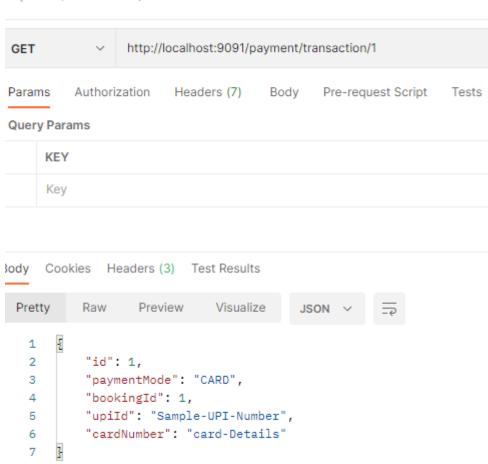


# **Payment Service:**

Get API to get the transaction details.

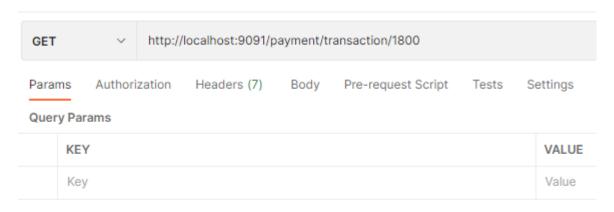
For a valid transaction, following will be the response.

UpGrad / transaction/2



If any invalid data is passed response will be null and if we have a transaction with respect to booking it will respond with a transactionId.

UpGrad / transaction/2





We have another API which is called using booking Application, where in we generate the Transaction Id with respect to the payment done.

### **Eureka Service:**

Post all the configuration both the application booking and payment application will be registered in eureka server.

