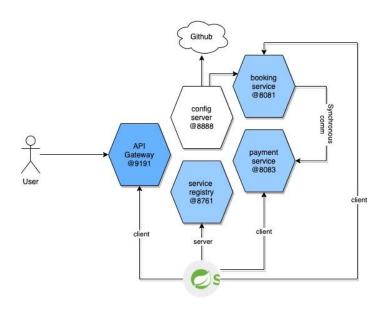
Hotel Booking Application

Architecture



Code Overview

- Payment Service
 - Special Maven Dependencies:

```
<dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-config</artifactId>
</dependency>
<dependency>
    <groupId>org.springframework.cloud</groupId>
    <artifactId>spring-cloud-starter-bootstrap</artifactId>
</dependency></dependency>
```

- Code Overview:
- Booking Service
 - Special Maven Dependencies:

```
<!-- Additional dependencies Start -->
<dependency>
<groupId>org.modelmapper</groupId>
```

```
<artifactId>modelmapper</artifactId>
 <version>2.4.4
</dependency>
<dependency>
 <groupId>org.springframework.cloud</groupId>
 <artifactId>spring-cloud-starter-feign</artifactId>
 <version>1.4.7.RELEASE
</dependency>
<dependency>
 <groupId>org.jetbrains
 <artifactId>annotations</artifactId>
 <version>RELEASE
  <scope>compile</scope>
</dependency>
<dependency>
 <groupId>joda-time
 <artifactId>joda-time</artifactId>
 <version>2.9.7
</dependency>
<!-- for config-server:Start-->
<dependency>
 <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-config</artifactId>
</dependency>
<dependency>
 <groupId>org.springframework.cloud
  <artifactId>spring-cloud-starter-bootstrap</artifactId>
</dependency>
<!-- for config-server:End-->
<!-- for AOP:Start-->
<dependency>
 <groupId>org.springframework.boot</groupId>
 <artifactId>spring-boot-starter-aop</artifactId>
</dependency>
<dependency>
  <groupId>org.springframework.boot
  <artifactId>spring-boot-starter-validation</artifactId>
</dependency>
<dependency>
 <groupId>org.apache.commons
  <artifactId>commons-lang3</artifactId>
</dependency>
<!-- for config-server:End-->
<!-- Additional dependencies End -->
```

Code Overview:

The booking service is the main processing logic of the microservice architecture. It has following features,

- Invokes the Feign Client to include the references of Payment Service
- Performs Create and Update operation on the booking entity
- It also invoke the Create operation of the payment service
- It generates a random number to provide the list of the rooms booked in a given request.
- It performs the AOP based exception handling that throws an error if

- Booking Id for a selected payment doesn't exist
- Payment method is invalid (it must be UPI or CARD)

Config Server

Special Maven Dependencies:

```
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-config-server</artifactId>
  </dependency>
```

- Code Overview:
- Service Registry
 - Special Maven Dependencies:

```
<dependency>
  <groupId>org.springframework.cloud</groupId>
  <artifactId>spring-cloud-starter-netflix-eureka-server</artifactId>
  </dependency>
```

Code Overview:

The service registry port is a way to provide the microservices running (which have references of eureka client)

- API Gateway
 - Special Maven Dependencies:

Code Overview:

N/A

Deployment Sequence

- Config Server
- Service Registry
- API Gateway
- Payment Service
- Booking Service