# **Spring Projects**

for Microservices Architecture

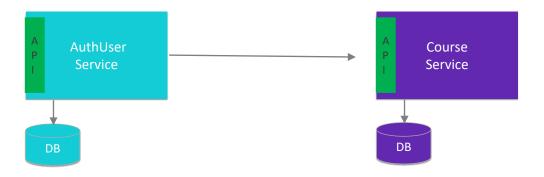
## Spring Web MVC

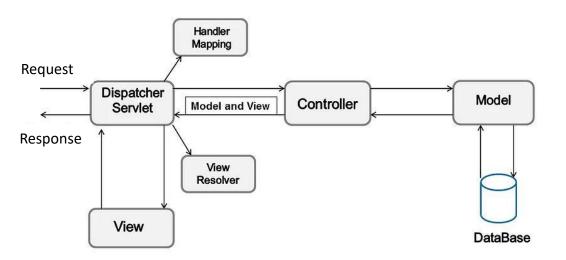
@Controller

@RestController

@RequestMapping

```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
</dependency>
```





## Spring Validation

@Validated @NotNull

@Size @NotEmpty

@Email @NotBlank

```
private String name;
@NotBlank
private String description;
@Email
private String email;
@Size(min = 4, max = 50)
private String username;
```

@NotBlank

```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-validation</artifactId>
</dependency>
```

### Spring HATEOAS 😩

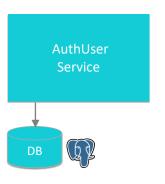
```
\label{thm:public class} \begin{tabular}{ll} \textbf{public class UserModel extends RepresentationModel < UserModel > implements Serializable { } \\ \textbf{user.add(linkTo(methodOn(UserController.class).getOneUser(userId)).withSelfRel());} \\ \end{tabular}
```

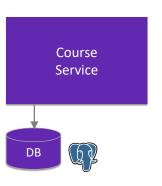
```
<dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-hateoas</artifactId>
</dependency>
```

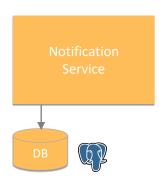
#DECODERPROJECT

#### Spring Data JPA





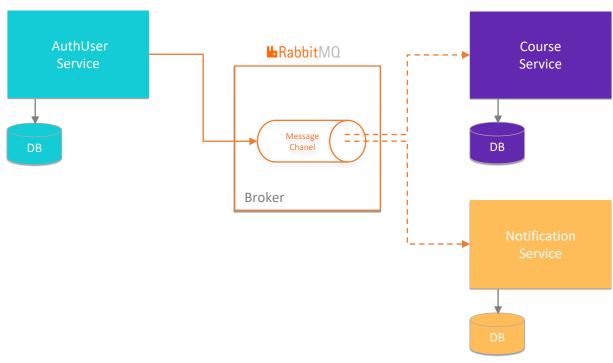




```
public interface RoleRepository extends JpaRepository<RoleModel, UUID> {
   Optional<RoleModel> findByRoleName(RoleType name);
```

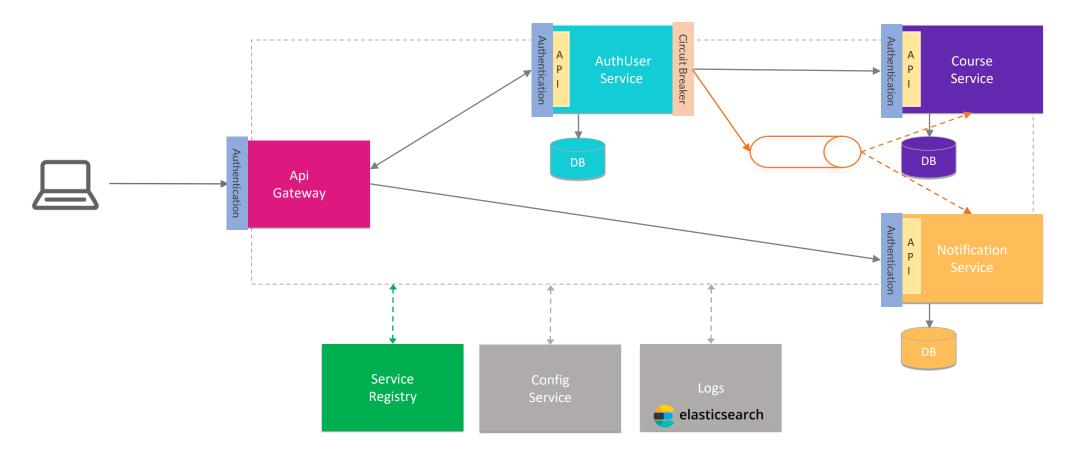
```
<dependency>
 <groupId>org.springframework.boot
 <artifactId>spring-boot-starter-data-jpa</artifactId>
</dependency>
```

## Spring AMQP

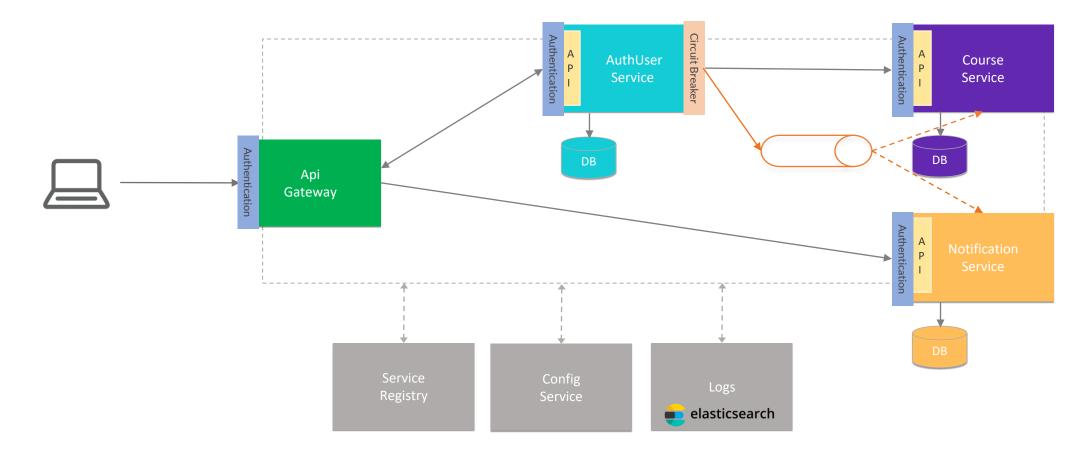


```
<dependency>
  <groupId>org.springframework.boot</groupId>
  <artifactId>spring-boot-starter-amqp</artifactId>
</dependency>
```

#### Spring Cloud Netflix Eureka

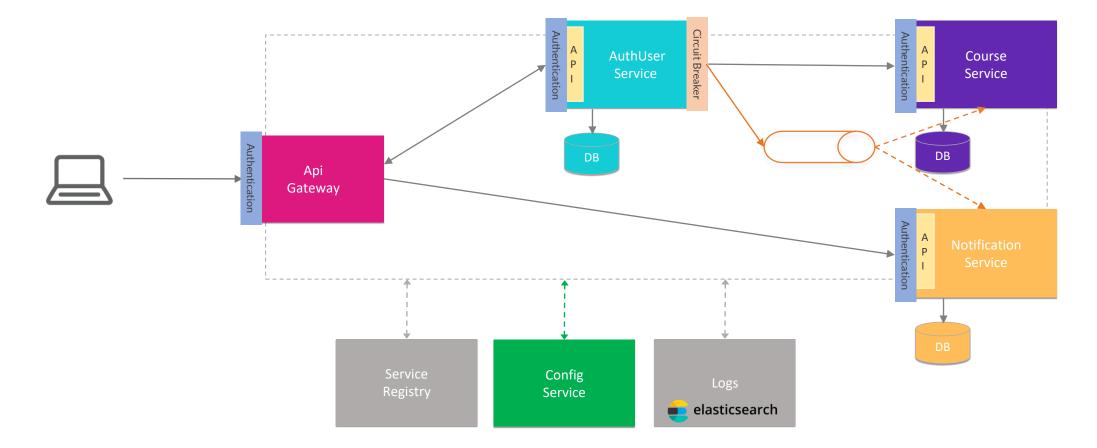


### Spring Cloud Gateway



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

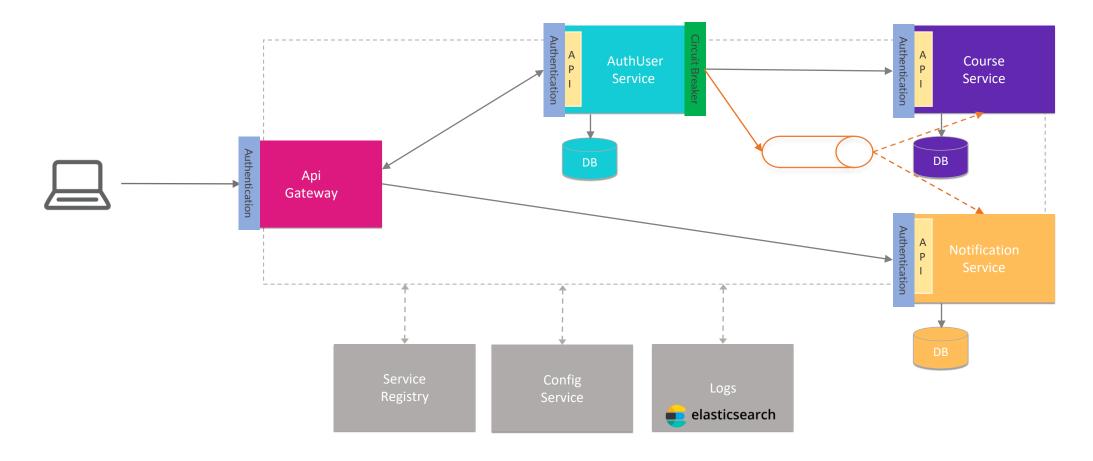
#### Spring Cloud Config



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

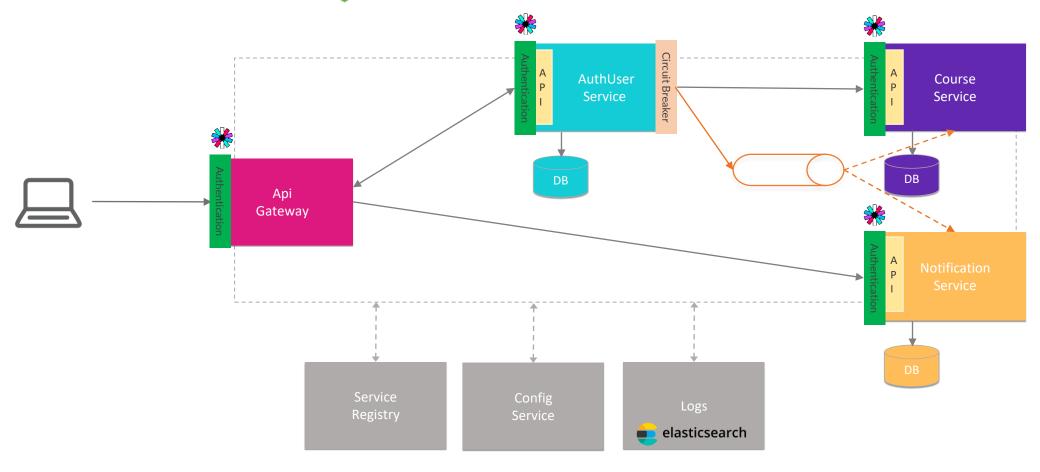
### Spring Cloud Circuit Breaker Resilience4J (





```
<dependency>
 <groupId>org.springframework.cloud
 <artifactId>spring-cloud-starter-circuitbreaker-resilience4j</artifactId>
</dependency>
```

## Spring Security •



```
<dependency>
 <groupId>org.springframework.boot
 <artifactId>spring-boot-starter-security</artifactId>
</dependency>
```

#### Microservices Architecture with Spring - EAD

