

1. User Service

Estructura inicial:

```
user-service/
```

```
??? src/
```

```
? ??? main/
```

```
? ? ??? java/
```

```
? ? ? ??? com/
```

```
? ? ? ??? example/
```

```
? ? ? ??? userservice/
```

```
? ? ? ??? UserServiceApplication.java
```

```
? ? ? ??? controller/
```

```
? ? ? ? ??? UserController.java
```

```
? ? ? ??? model/
```

```
? ? ? ? ??? User.java
```

```
? ? ? ??? repository/
```

```
? ? ? ? ??? UserRepository.java
```

```
? ? ? ??? service/
```

```
? ? ? ? ??? UserService.java
```

```
? ??? main/resources/
```

```
? ? ??? application.yml
```

```
??? pom.xml
```

Código básico:

UserServiceApplication.java

```
package com.example.userservice;
```

```
import org.springframework.boot.SpringApplication;
```

```
import org.springframework.boot.autoconfigure.SpringBootApplication;
```

```
@SpringBootApplication
```

```
public class UserServiceApplication {
```

```
    public static void main(String[] args) {
```

```
        SpringApplication.run(UserServiceApplication.class, args);
```

```
    }
```

```
}
```

```
// (Truncated for brevity)
```

2. User Event Consumer

Estructura inicial:

```
user-event-consumer/
```

```
??? src/
```

```
? ??? main/
```

```
? ? ??? java/
```

```
? ? ? ??? com/
```

```
? ? ? ??? example/
```

```
? ? ?      ??? consumerevent/
? ? ?      ??? ConsumerEventApplication.java
? ? ?      ??? consumer/
? ? ?      ??? UserEventConsumer.java
?  ??? main/resources/
? ?  ??? application.yml
??? pom.xml
```

// (Truncated for brevity)

3. Search Service

Estructura inicial:

```
search-service/
??? src/
?  ??? main/
? ?  ??? java/
? ? ?  ??? com/
? ? ?  ??? example/
? ? ?  ??? searchservice/
? ? ?  ??? SearchServiceApplication.java
? ? ?  ??? controller/
? ? ?  ?  ??? SearchController.java
? ? ?  ??? service/
? ? ?  ??? SearchService.java
```

? ??? main/resources/

? ? ??? application.yml

??? pom.xml

// (Truncated for brevity)