

Flyway, açık kaynaklı database migration'ları yapmamızı sağlayan bir tool'dur. Sadeliği ve konfigürasyondan bağımsız konvensiyonel bir mekanizmayı ön plana çıkarmayı amaçlar.

Ücretsiz olarak kullanabileceğimiz Kong API Gateway => <https://konghq.com/products/api-gateway-platform>

Kong açık kaynak kodlu ölçeklenebilir API Gateway ürünüdür. Clientlerinizin servislerinize bir endpoint üzerinden ulaşmasını sağlar yani artık clientleriniz doğrudan servislerinizi değil kong endpointini çağırır ve bu endpoint ilgili servise yönlendirme yapar. Kong yönlendirme yaparken size sağladığı pluginler ile authentication,security, response rate limiting, request size limiting, logging gibi çözümler sunar.

WSO2 API Gateway=>

<https://apim.docs.wso2.com/en/latest/deploy-and-publish/deploy-on-gateway/api-gateway/overview-of-the-api-gateway/>

<https://restfulapi.net/versioning/>

REST API nasıl versiyonlanmalı?

1. URI Versioning

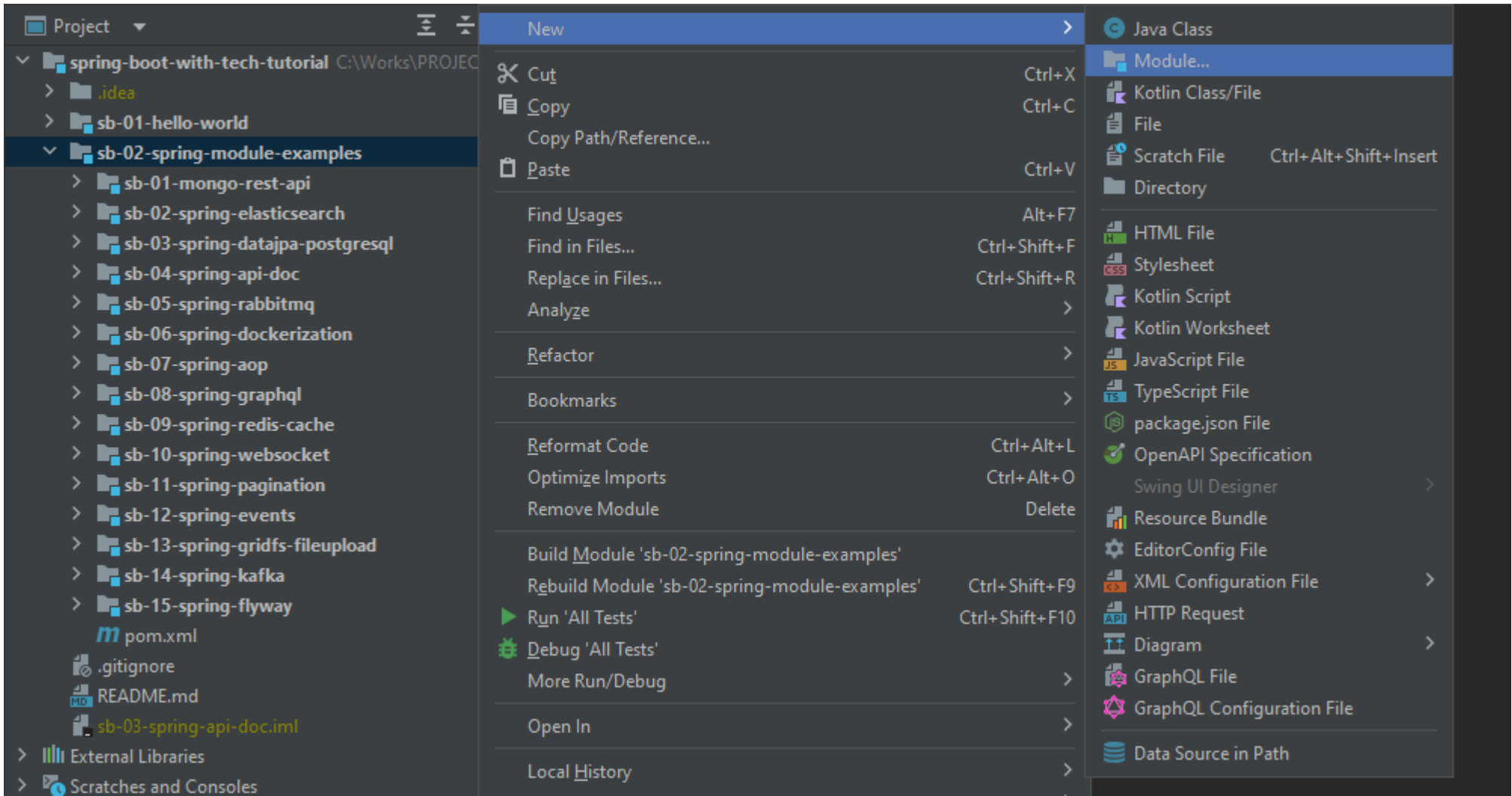
```
http://api.example.com/v1
http://apiv1.example.com
```

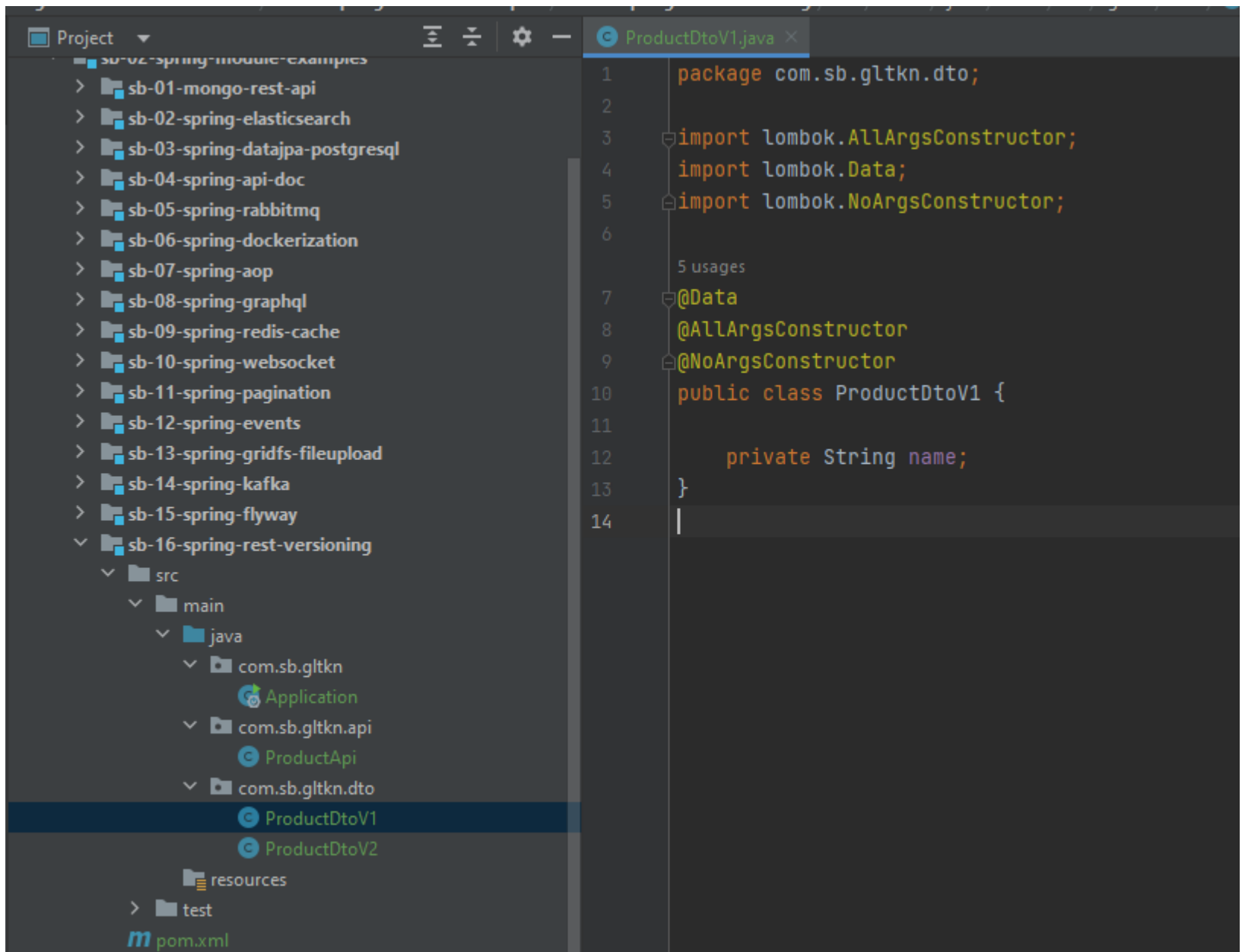
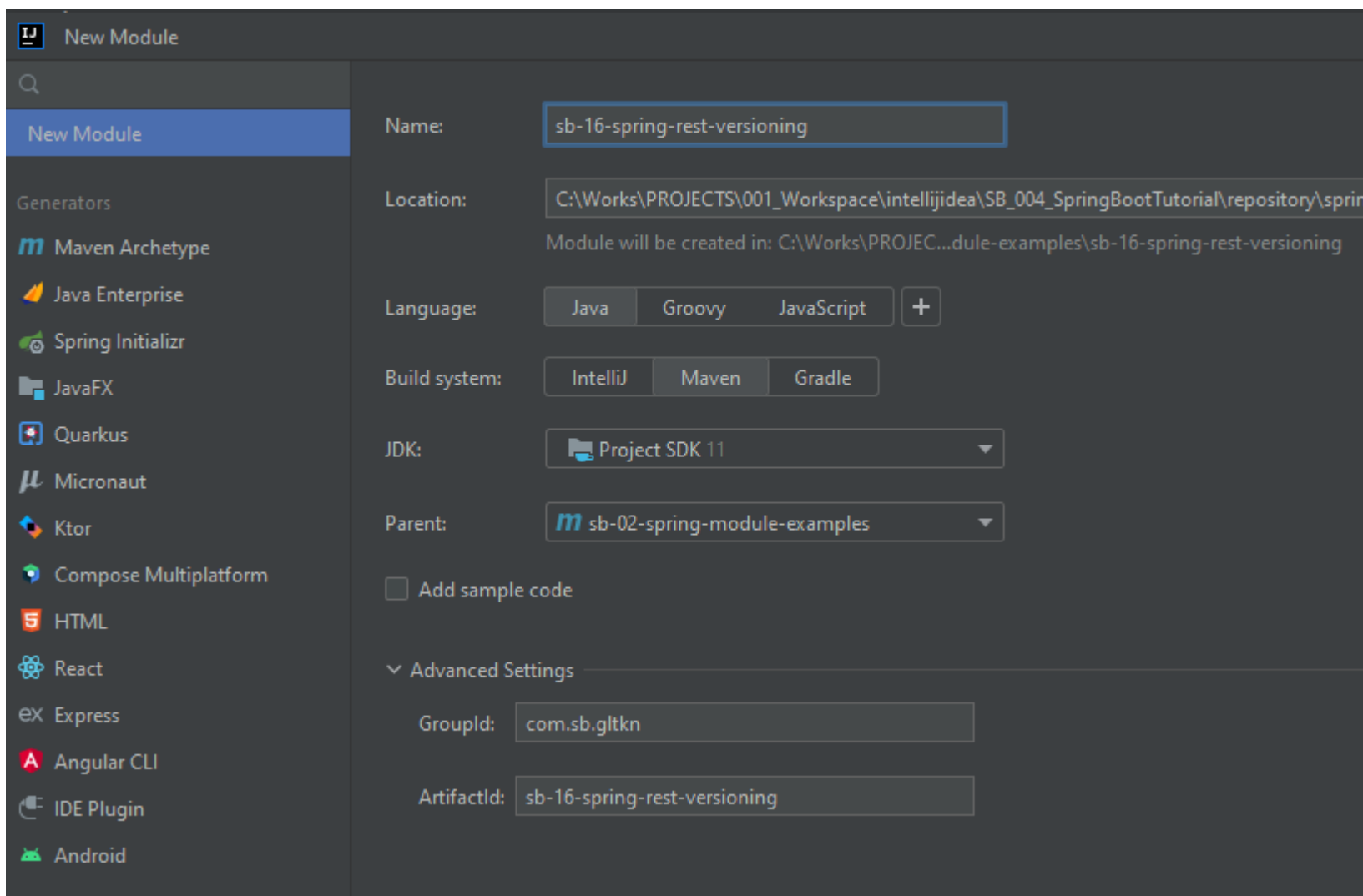
2. Request Header ile Versioning

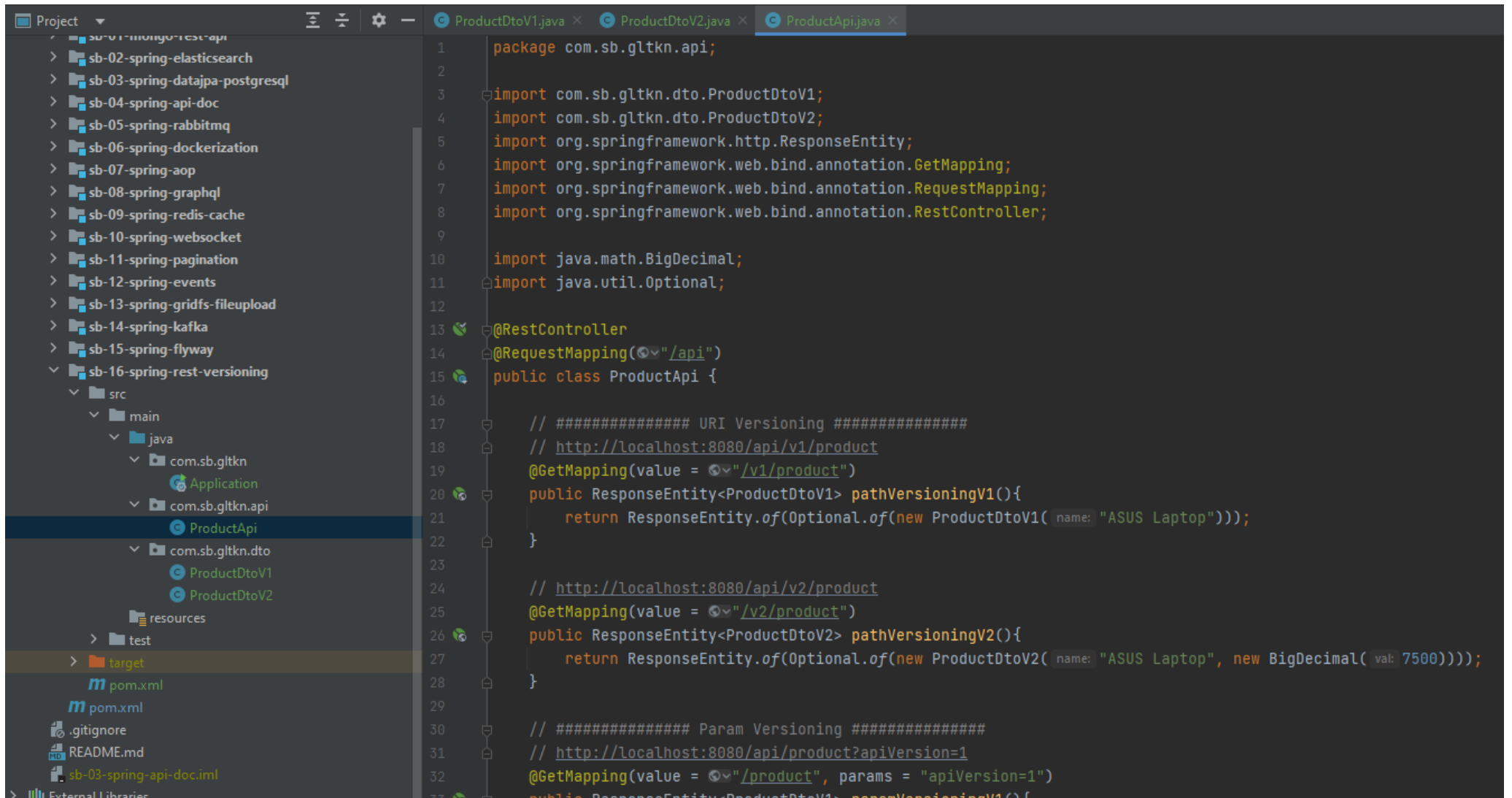
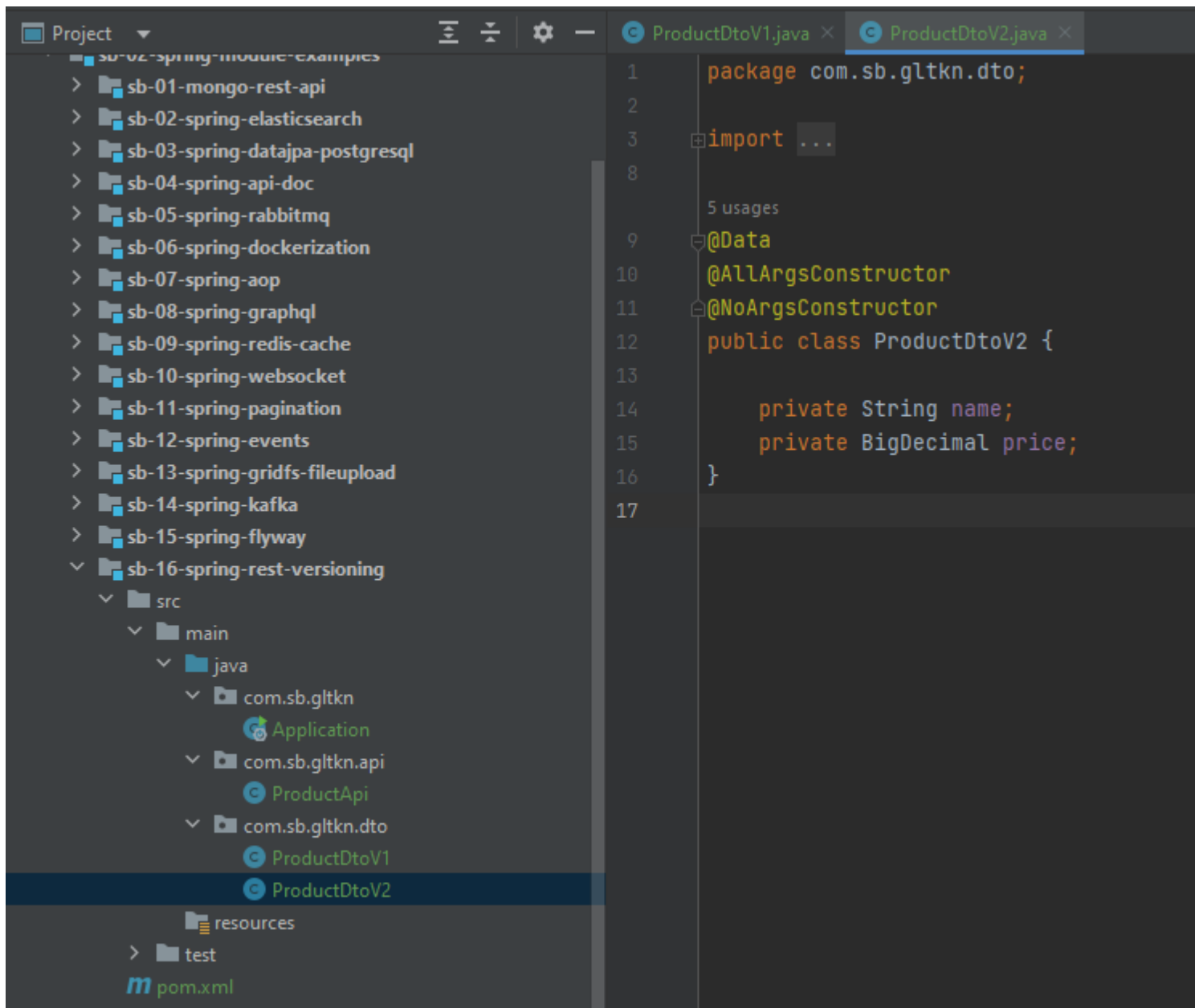
```
Accept-version: v1
Accept-version: v2
```

3. “Accept” header ile Versioning

```
Accept: application/vnd.example.v1+json
Accept: application/vnd.example+json;version=1.0
```







URI Versioning(Path Param)

<http://localhost:8080/api/v1/product>

<http://localhost:8080/api/v2/product>

```
// ##### URI Versioning #####
// http://localhost:8080/api/v1/product
@GetMapping(value = "/v1/product")
public ResponseEntity<ProductDtoV1> pathVersioningV1(){
    return ResponseEntity.of(Optional.of(new ProductDtoV1( name: "ASUS Laptop")));
}

// http://localhost:8080/api/v2/product
@GetMapping(value = "/v2/product")
public ResponseEntity<ProductDtoV2> pathVersioningV2(){
    return ResponseEntity.of(Optional.of(new ProductDtoV2( name: "ASUS Laptop", new BigDecimal( val: 7500))));
}
```

GET http://localhost:8080/api/v1/pr... + ...

▶ http://localhost:8080/api/v1/product

GET http://localhost:8080/api/v1/product

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE
Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON { }

1 {
2 "name": "ASUS Laptop"
3 }

GET http://localhost:8080/api/v1/pr... GET http://localhost:8080/api/v2/pr... + ...

Untitled Request

GET http://localhost:8080/api/v2/product

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

KEY	VALUE
Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON { }

1 {
2 "name": "ASUS Laptop",
3 "price": 7500
4 }

URI Versioning(Query Param)

<http://localhost:8080/api/product?apiVersion=1>

<http://localhost:8080/api/product?apiVersion=2>

```
// ##### Param Versioning #####
// http://localhost:8080/api/product?apiVersion=1
@GetMapping(value = "/product", params = "apiVersion=1")
public ResponseEntity<ProductDtoV1> paramVersioningV1(){
    return ResponseEntity.of(Optional.of(new ProductDtoV1( name: "ASUS Laptop")));
}

// http://localhost:8080/api/product?apiVersion=2
@GetMapping(value = "/product", params = "apiVersion=2")
public ResponseEntity<ProductDtoV2> paramVersioningV2(){
    return ResponseEntity.of(Optional.of(new ProductDtoV2( name: "ASUS Laptop", new BigDecimal( val: 7500))));
}
```

GET http://localhost:8080/api/produ... + ...

Untitled Request

GET http://localhost:8080/api/product?apiVersion=1

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

	KEY	VALUE
<input checked="" type="checkbox"/>	apiVersion	1
	Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "name": "ASUS Laptop"
3 }
```

GET http://localhost:8080/api/produ... GET http://localhost:8080/api/produ... + ...

Untitled Request

GET http://localhost:8080/api/product?apiVersion=2

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Query Params

	KEY	VALUE
<input checked="" type="checkbox"/>	apiVersion	2
	Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "name": "ASUS Laptop",
3   "price": 7500
4 }
```

Request Header Versioning

```
// ##### Header Versioning #####
// http://localhost:8080/api/product
@GetMapping(value = "/product", headers = "X-API-VERSION=1")
public ResponseEntity<ProductDtoV1> headerVersioningV1(){
    return ResponseEntity.of(Optional.of(new ProductDtoV1( name: "ASUS Laptop")));
}

// http://localhost:8080/api/product
@GetMapping(value = "/product", headers = "X-API-VERSION=2")
public ResponseEntity<ProductDtoV2> headerVersioningV2(){
    return ResponseEntity.of(Optional.of(new ProductDtoV2( name: "ASUS Laptop", new BigDecimal( val: 7500))));
}
```

GET http://localhost:8080/api/product

Untitled Request

GET http://localhost:8080/api/product

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Headers 7 hidden

	KEY	VALUE
<input checked="" type="checkbox"/>	X-API-VERSION	1
	Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "name": "ASUS Laptop"
3 }
```

GET http://localhost:8080/api/product

Untitled Request

GET http://localhost:8080/api/product

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Headers 7 hidden

	KEY	VALUE
<input checked="" type="checkbox"/>	X-API-VERSION	2
	Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "name": "ASUS Laptop",
3   "price": 7500
4 }
```