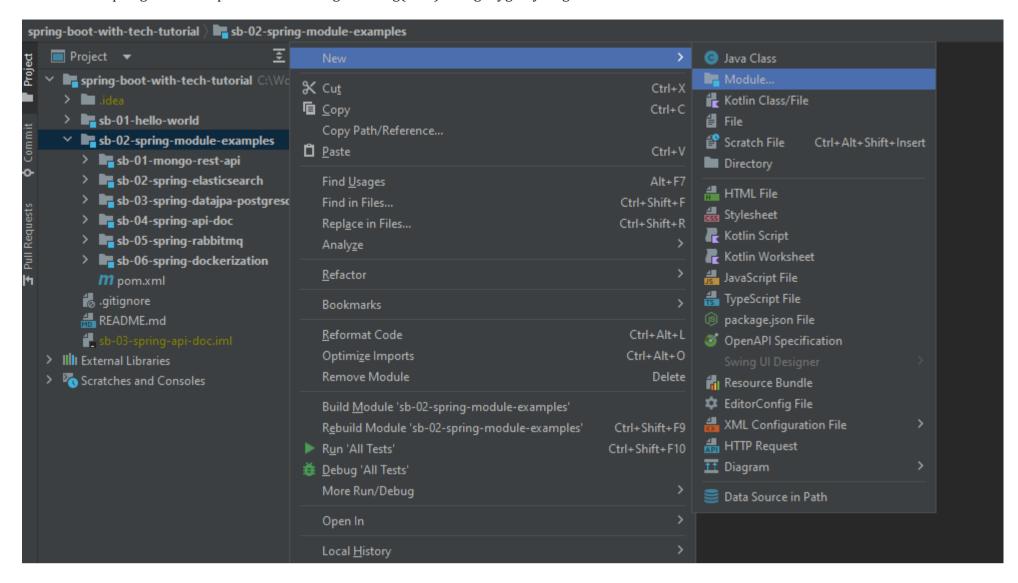
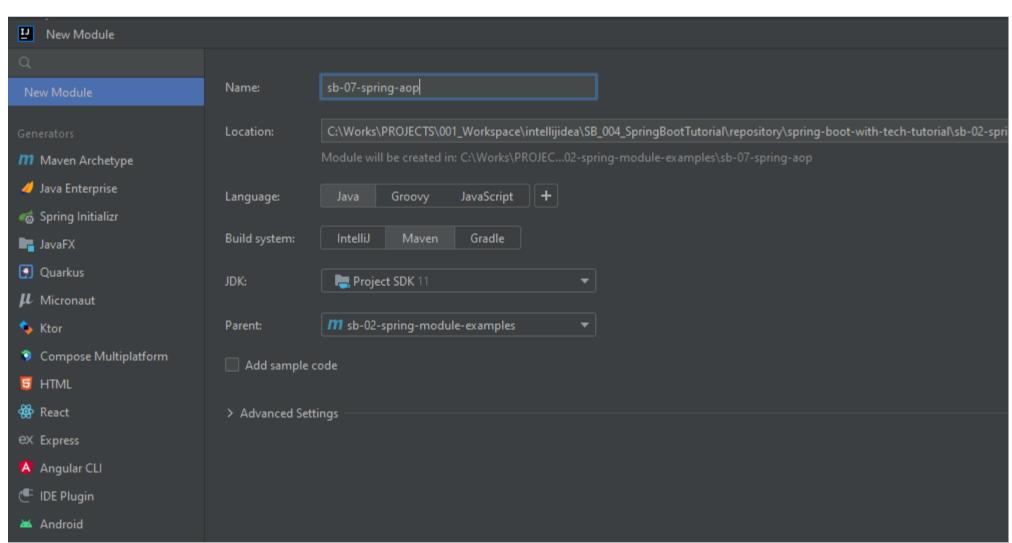
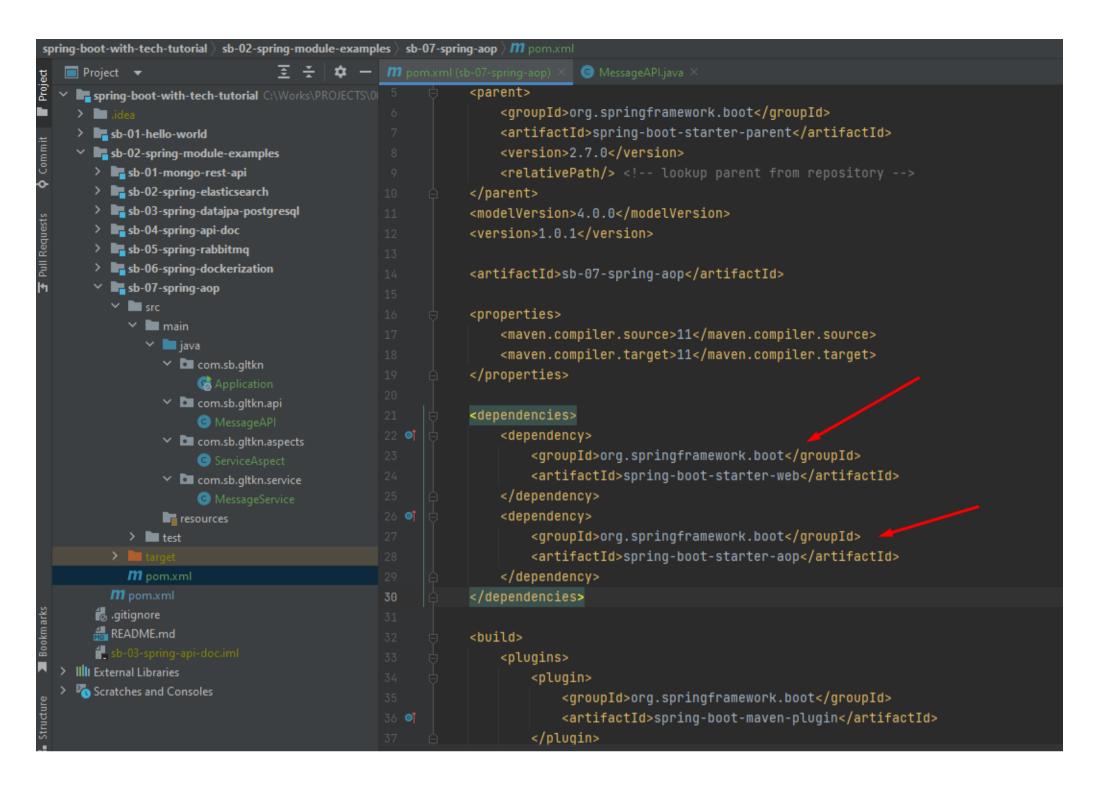
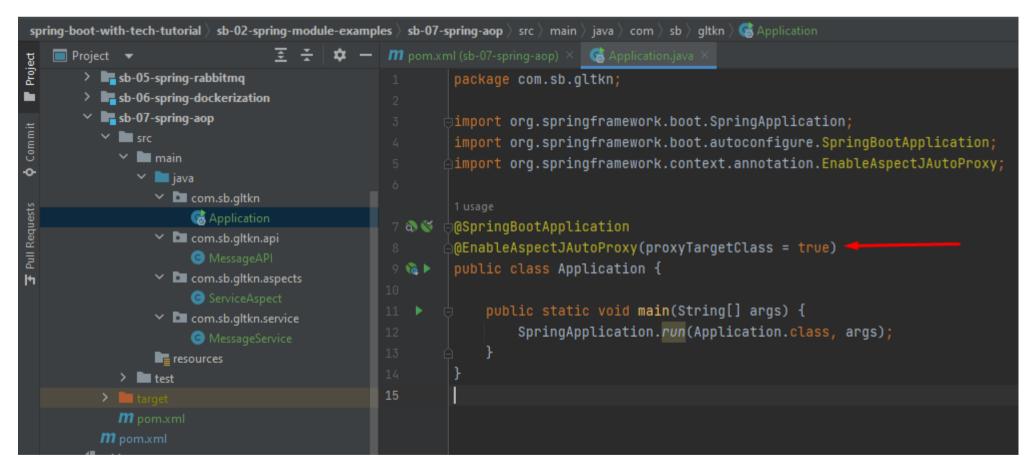
Bu bölümde SpringBoot ile Aspect Oriented Programming(AOP) örneği uygulayacağız.







Bu örnekte **service** paketi altında herhangi bir class'tan çağrılan **createMessage** metodunun öncesinde ve sonrasında araya girip işlemler yapcağız.



```
spring-boot-with-tech-tutorial > sb-02-spring-module-examples > sb-07-spring-aop > src > main > java > com > sb > gltkn > api > @ MessageAPI
                                                                                     👱 🛬 | 🌣 − | m pom.xml (sb-07-spring-aop) ×
         ■ Project ▼
        ➤ spring-boot-with-tech-tutorial C:\Works\PROJECTS\0 1
                                                                                                                                             package com.sb.gltkn.api;
> l
              > R sb-01-hello-world
                                                                                                                                             jimport com.sb.gltkn.service.MessageService;
Commit
              import org.springframework.beans.factory.annotation.Autowired;
                    > a sb-01-mongo-rest-api
                                                                                                                                              import org.springframework.http.ResponseEntity;
                    > r sb-02-spring-elasticsearch
                                                                                                                                              import org.springframework.web.bind.annotation.PostMapping;
                    > 📭 sb-03-spring-datajpa-postgresql
                                                                                                                                              import org.springframework.web.bind.annotation.RequestBody;

→ Pull Requests

                    > a sb-04-spring-api-doc
                                                                                                                                              import org.springframework.web.bind.annotation.RequestMapping;
                    > | sb-05-spring-rabbitmq
                                                                                                                                              import org.springframework.web.bind.annotation.RestController;
                    > r sb-06-spring-dockerization

✓ In sb-07-spring-aop

                                                                                                                                             @RestController

✓ Image: Since the si
                                                                                                                                             @RequestMapping(©>"<u>message</u>")

✓ Imain

                                                                                                                                             public class MessageAPI {
                                      💙 🖿 java
                                            Replication
                                                                                                                                                        @Autowired
                                            private MessageService messageService;
                                                        MessageAPI

✓ Image: Com.sb.gltkn.aspects

                                                                                                                                                        @PostMapping 🛇 🔻
                                                         ServiceAspect
                                                                                                                                                        public ResponseEntity<String> createMessage(@RequestBody String message){
                                            return ResponseEntity.ok(messageService.createMessage(message));
                                            resources
                                > test
```

```
spring-boot-with-tech-tutorial 
angle sb-02-spring-module-examples 
angle sb-07-spring-aop 
angle src 
angle main 
angle java 
angle com 
angle sb 
angle gltkn 
angle service 
angle @ MessageService
                                                                                                           👱 🛨 🔯 🗕 🖊 pom.xml (sb-07-spring-aop) 🗡 💿 MessageAPI.java 🗡 💿 MessageService.java 🗡
         ■ Project ▼
      ▼ In spring-boot-with-tech-tutorial C:\Works\PROJECTS\0| 1
                                                                                                                                                                                     package com.sb.gltkn.service;
               > 🖿 .idea
               > | sb-01-hello-world
                                                                                                                                                                                      import org.springframework.stereotype.Service;

✓ I sb-02-spring-module-examples

                      > R sb-01-mongo-rest-api
                      > B sb-02-spring-elasticsearch
                                                                                                                                                               5 🚳
                                                                                                                                                                                      @Service
                      > R sb-03-spring-datajpa-postgresql
                                                                                                                                                               6 🍖
                                                                                                                                                                                      public class MessageService {
                      > lig sb-04-spring-api-doc
                      > a sb-05-spring-rabbitmq
                      > III sb-06-spring-dockerization
                                                                                                                                                               8 👳
                                                                                                                                                                                                    public String createMessage(String message) {

✓ In sb-07-spring-aop

                                                                                                                                                                                                                  System.out.println("\ncreateMessage metodu calisti!!!");

✓ Image: Since the si
                                                                                                                                                                                                                  System.out.println(message);

✓ Imain

                                                                                                                                                                                                                  return message;
                                              🗡 🖿 java
                                                       com.sb.gltkn
                                                                       Application
                                                       MessageAPI

✓ Image: Com.sb.gltkn.aspects

                                                                       ServiceAspect
                                                       Com.sb.gltkn.service
                                                                       MessageService
                                                       resources
                                       > test
```

```
■ Project ▼
                                                                 👱 🛨 🔯 🗕 🎢 pom.xml (sb-07-spring-aop) 🗡 💿 MessageAPI.java 🗡 💿 MessageService.java 🗡 💿 ServiceAspect.java
                                                                                                                        package com.sb.gltkn.aspects;
  spring-boot-with-tech-tutorial C:\Works\PROJECTS\0
   >
                                                                                                                      ⇒import org.aspectj.lang.JoinPoint;
   > sb-01-hello-world
                                                                                                                        import org.aspectj.lang.annotation.After;

✓ In sb-02-spring-module-examples

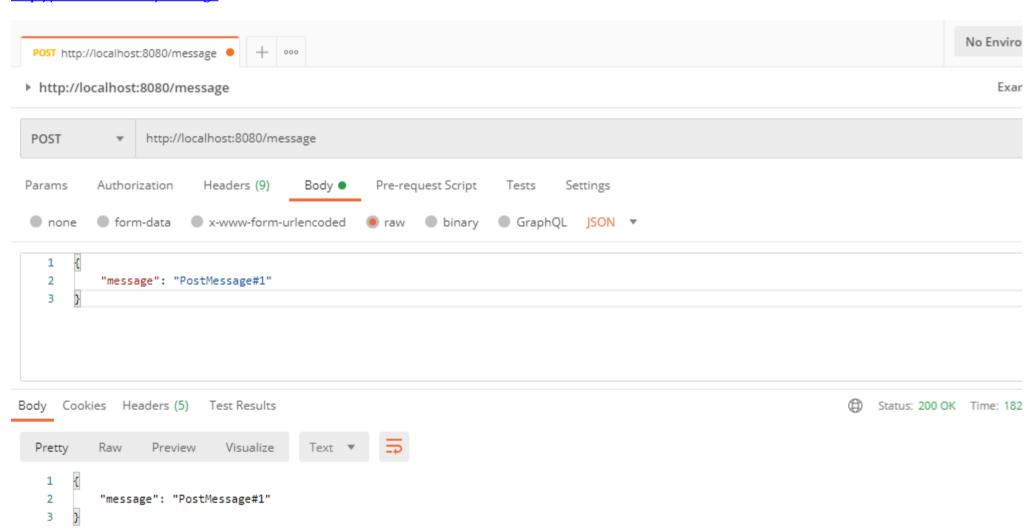
                                                                                                                        import org.aspectj.lang.annotation.Aspect;
        > 📴 sb-01-mongo-rest-api
                                                                                                                        import org.aspectj.lang.annotation.Before;
       > 📴 sb-02-spring-elasticsearch
       > 📴 sb-03-spring-datajpa-postgresql
                                                                                                                       import org.springframework.stereotype.Component;
       > sb-04-spring-api-doc
       > R sb-05-spring-rabbitmq
                                                                                                                       @Aspect
        > r sb-06-spring-dockerization
                                                                                                                       @Component

→ In sb-07-spring-aop

                                                                                                                        public class ServiceAspect {
              🗡 🖿 src
                   🗡 🖿 main
                                                                                                                                 //Bu paket altında bulunan tüm class'lardaki createMessage metodundan hemen önce çalışır.
                                                                                                                                 @Before("execution(* com.sb.gltkn.service.*.createMessage(..))")
                             15 廊 @
                                                                                                                                 public void beforeCreateMessage(JoinPoint joinPoint){
                                        C Application
                                                                                                                                           System.out.println("\n[createMessage metodundan önce]");
                             🗡 🖿 com.sb.gltkn.api
                                                                                                                                           System.out.println("Yakalanan ilk parametre: " + joinPoint.getArgs()[0]);
                                                                                                                                          System.out.println("Yakalanan signature: " + joinPoint.getSignature());
                             ServiceAspect

✓ Image: Year Young Young
                                                                                                                                 @After("execution(* com.sb.gltkn.service.*.createMessage(...))")
                             resources
                                                                                                                                 public void afterCreateMessage(JoinPoint joinPoint){
                                                                                                  23 🐽 @
                   > test
                                                                                                                                           System.out.println("\n[createMessage metodundan sonra]");
                                                                                                                                           System.out.println("Yakalanan ilk parametre: " + joinPoint.getArgs()[0]);
                                                                                                                                           System.out.println("Yakalanan signature: " + joinPoint.getSignature());
         🚜 .gitignore
```

http://localhost:8080/message



```
[createMessage metodundan önce]
Yakalanan ilk parametre: {
    "message": "PostMessage#1"
}
Yakalanan signature: String com.sb.gltkn.service.MessageService.createMessage(String)

createMessage metodu çalıştı!!!
{
    "message": "PostMessage#1"
}
[createMessage metodundan sonra]
Yakalanan ilk parametre: {
    "message": "PostMessage#1"
}
Yakalanan signature: String com.sb.gltkn.service.MessageService.createMessage(String)
```