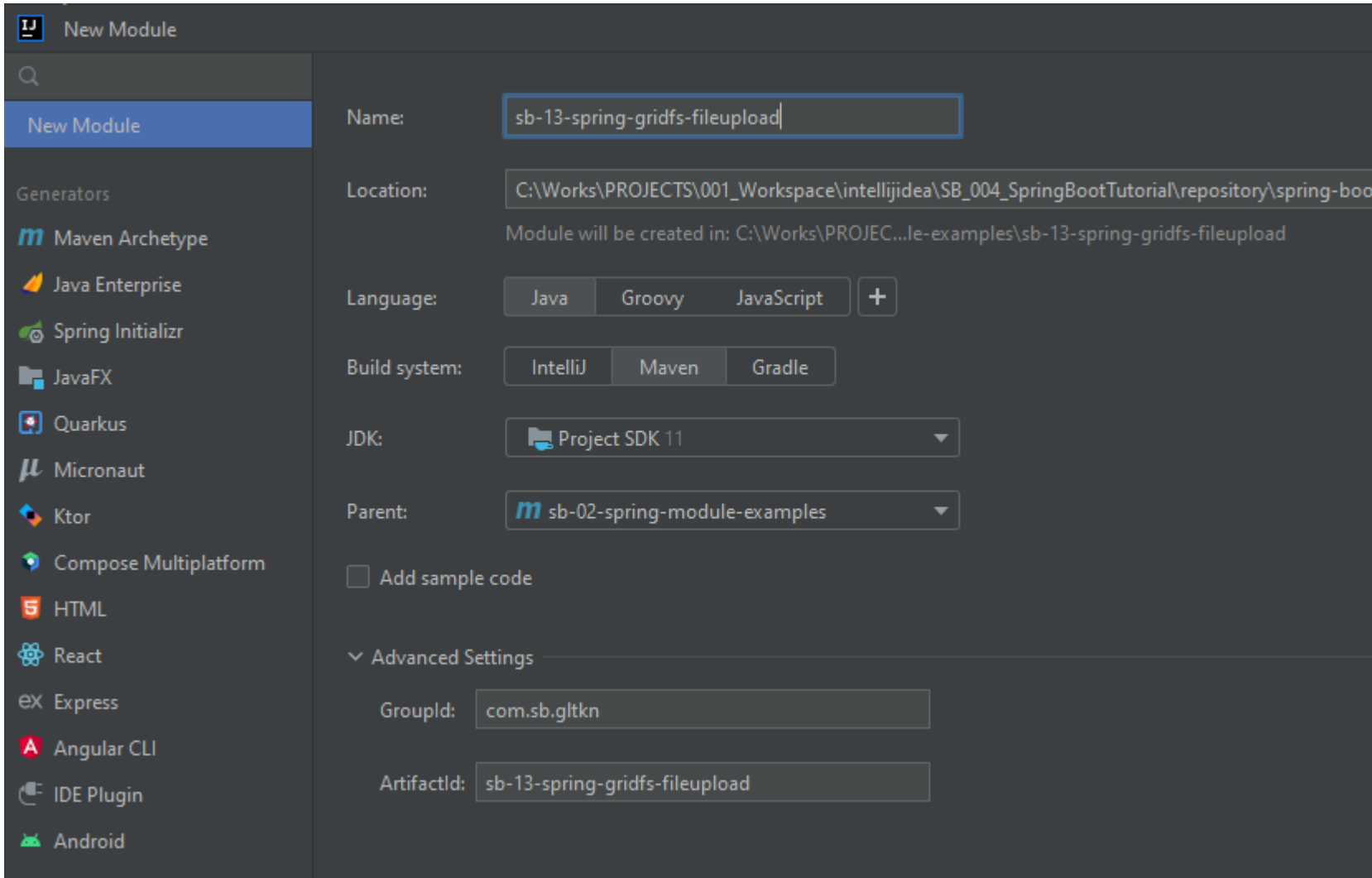
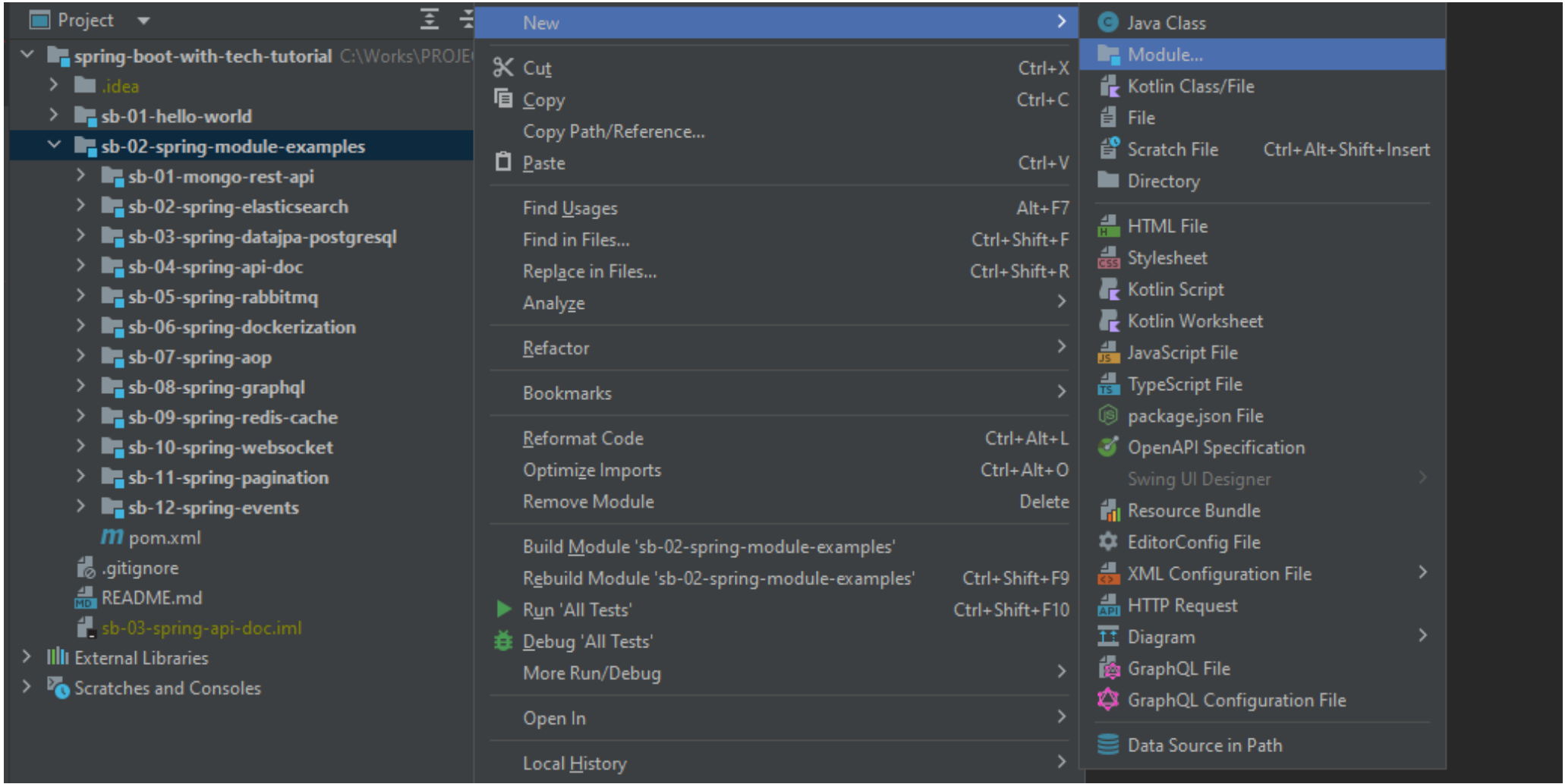


MongoDB, GridFS adı verilen dosyaları yüklemek ve buradan almak için bir sürücü özelliğine sahiptir. GridFS, **16 MB'lık** BSON belge boyutu sınırını aşanlar da dahil olmak üzere dosyaları depolamanıza ve almanıza olanak tanır .

Not: Normalde 16 MB boyut sınırını aşan dosyaları depolamak için GridFS kullanılması tercih edilir. Daha küçük dosyalar için, dosyaları tek belgelerde saklamak için BinData formatının kullanılması önerilir.



Project ▾

- spring-boot-with-tech-tutorial C:\Works\PROJECTS\001_Wor
 - .idea
 - sb-01-hello-world
 - sb-02-spring-module-examples
 - sb-01-mongo-rest-api
 - sb-02-spring-elasticsearch
 - sb-03-spring-datajpa-postgresql
 - sb-04-spring-api-doc
 - sb-05-spring-rabbitmq
 - sb-06-spring-dockerization
 - sb-07-spring-aop
 - sb-08-spring-graphql
 - sb-09-spring-redis-cache
 - sb-10-spring-websocket
 - sb-11-spring-pagination
 - sb-12-spring-events
 - sb-13-spring-gridfs-fileupload
 - src
 - main
 - java
 - resources
 - test

m pom.xml

m pom.xml

.gitignore

README.md

sb-03-spring-api-doc.iml

External Libraries

Scratches and Consoles

m pom.xml (sb-13-spring-gridfs-fileupload) ×

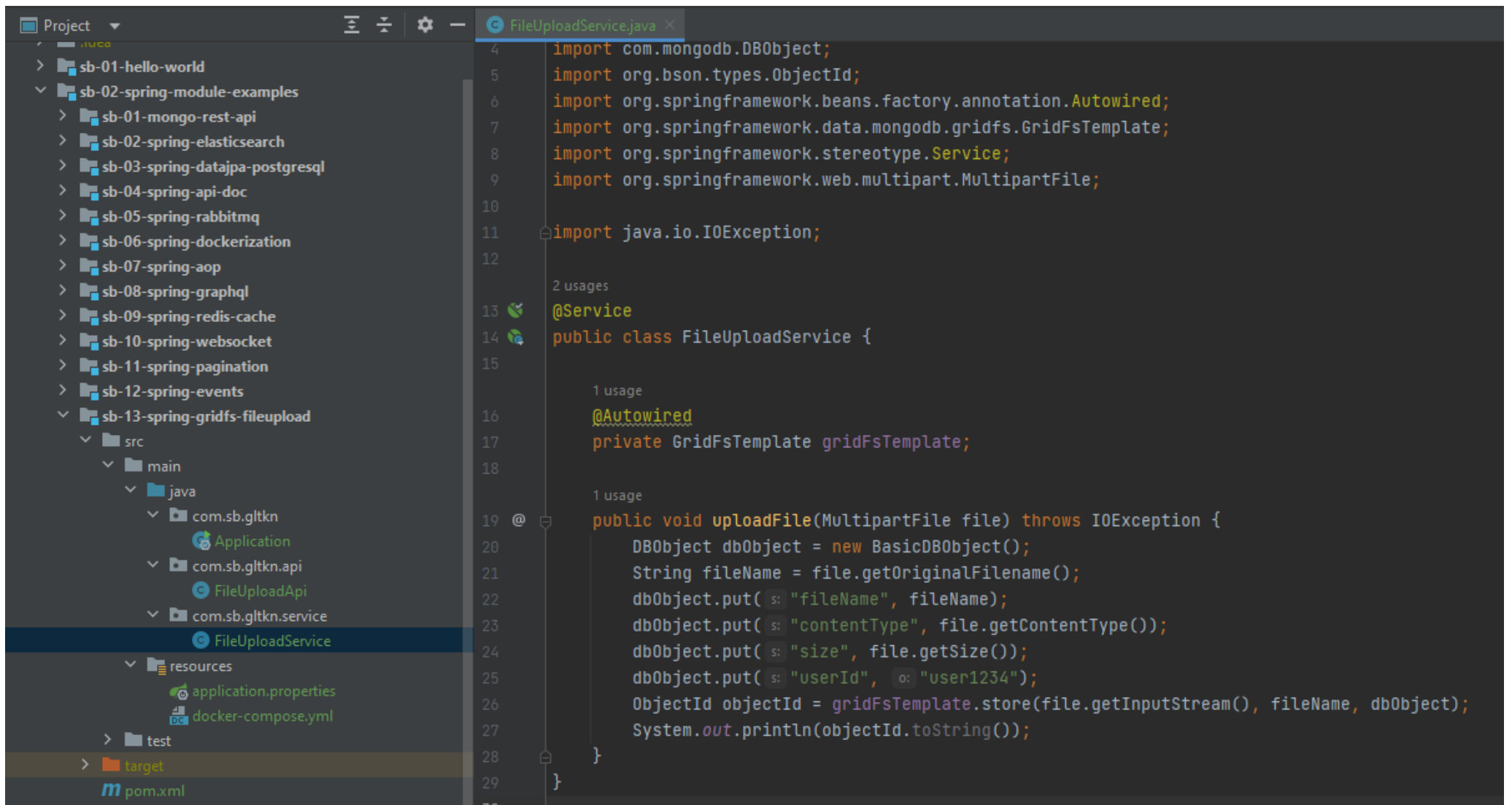
```
5 <parent>
6   <groupId>org.springframework.boot</groupId>
7   <artifactId>spring-boot-starter-parent</artifactId>
8   <version>2.7.0</version>
9   <relativePath/> <!-- lookup parent from repository -->
10 </parent>
11 <modelVersion>4.0.0</modelVersion>
12
13 <artifactId>sb-13-spring-gridfs-fileupload</artifactId>
14
15 <properties>
16   <maven.compiler.source>11</maven.compiler.source>
17   <maven.compiler.target>11</maven.compiler.target>
18 </properties>
19 <dependencies>
20   <dependency>
21     <groupId>org.springframework.boot</groupId>
22     <artifactId>spring-boot-starter-web</artifactId>
23   </dependency>
24   <dependency>
25     <groupId>org.springframework.boot</groupId>
26     <artifactId>spring-boot-starter-data-mongodb</artifactId>
27   </dependency>
28 </dependencies>
29 <build>
30   <plugins>
31     <plugin>
32       <groupId>org.springframework.boot</groupId>
33       <artifactId>spring-boot-maven-plugin</artifactId>
34     </plugin>
35   </plugins>
36 </build>
37 </project>
```

Project ▾

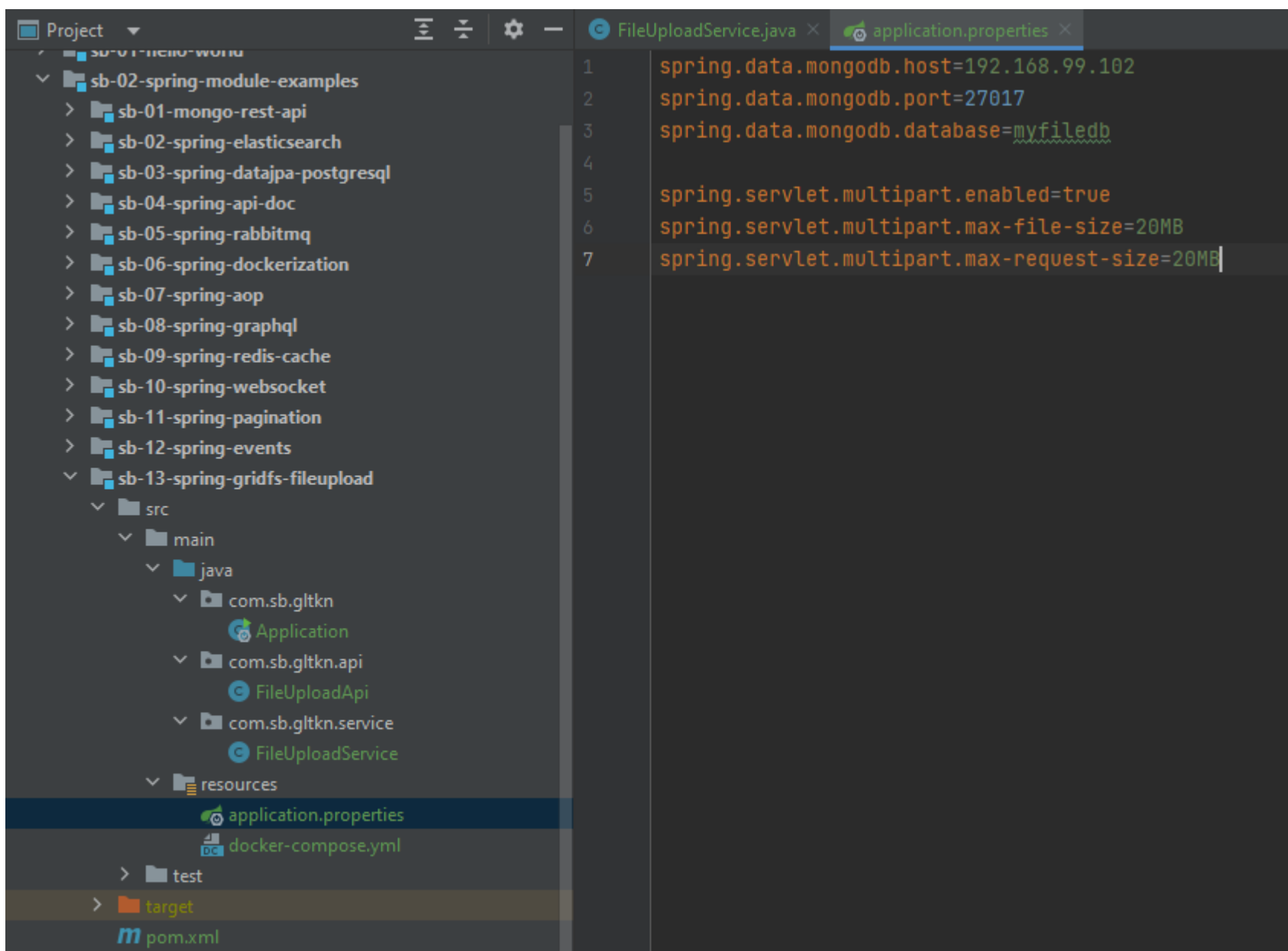
- sb-01-hello-world
- sb-02-spring-module-examples
 - sb-01-mongo-rest-api
 - sb-02-spring-elasticsearch
 - sb-03-spring-datajpa-postgresql
 - sb-04-spring-api-doc
 - sb-05-spring-rabbitmq
 - sb-06-spring-dockerization
 - sb-07-spring-aop
 - sb-08-spring-graphql
 - sb-09-spring-redis-cache
 - sb-10-spring-websocket
 - sb-11-spring-pagination
 - sb-12-spring-events
 - sb-13-spring-gridfs-fileupload
 - src
 - main
 - java
 - com.sb.gltn
 - com.sb.gltn.api
 - FileUploadApi
 - com.sb.gltn.service
 - FileUploadService
 - resources
 - application.properties
 - docker-compose.yml
 - test

FileUploadApi.java ×

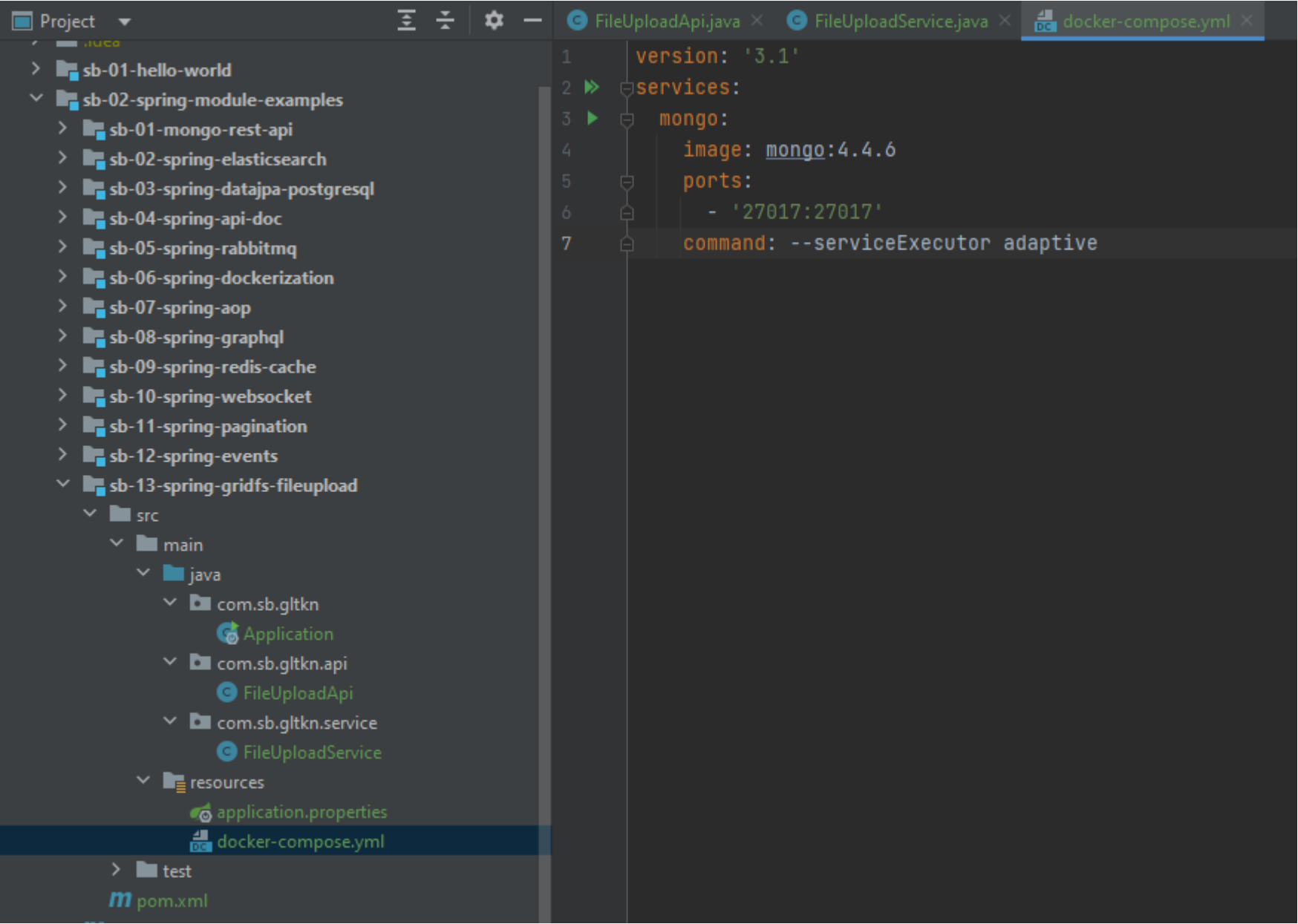
```
1 package com.sb.gltn.api;
2
3 import com.sb.gltn.service.FileUploadService;
4 import org.springframework.beans.factory.annotation.Autowired;
5 import org.springframework.web.bind.annotation.PostMapping;
6 import org.springframework.web.bind.annotation.RequestMapping;
7 import org.springframework.web.bind.annotation.RequestParam;
8 import org.springframework.web.bind.annotation.RestController;
9 import org.springframework.web.multipart.MultipartFile;
10
11 import java.io.IOException;
12
13 @RestController
14 @RequestMapping("/upload")
15 public class FileUploadApi {
16
17     1 usage
18     @Autowired
19     private FileUploadService fileUploadService;
20
21     @PostMapping
22     public void fileUpload(@RequestParam MultipartFile file) throws IOException {
23         fileUploadService.uploadFile(file);
24     }
25 }
```



```
4 import com.mongodb.DBObject;
5 import org.bson.types.ObjectId;
6 import org.springframework.beans.factory.annotation.Autowired;
7 import org.springframework.data.mongodb.gridfs.GridFsTemplate;
8 import org.springframework.stereotype.Service;
9 import org.springframework.web.multipart.MultipartFile;
10
11 import java.io.IOException;
12
13 @Service
14 public class FileUploadService {
15
16     @Autowired
17     private GridFsTemplate gridFsTemplate;
18
19     public void uploadFile(MultipartFile file) throws IOException {
20         DBObject dbObject = new BasicDBObject();
21         String fileName = file.getOriginalFilename();
22         dbObject.put("fileName", fileName);
23         dbObject.put("contentType", file.getContentType());
24         dbObject.put("size", file.getSize());
25         dbObject.put("userId", "user1234");
26         ObjectId objectId = gridFsTemplate.store(file.getInputStream(), fileName, dbObject);
27         System.out.println(objectId.toString());
28     }
29 }
```



```
1 spring.data.mongodb.host=192.168.99.102
2 spring.data.mongodb.port=27017
3 spring.data.mongodb.database=myfiledb
4
5 spring.servlet.multipart.enabled=true
6 spring.servlet.multipart.max-file-size=20MB
7 spring.servlet.multipart.max-request-size=20MB
```



docker-compose -f /c/Works/PROJECTS/001_Workspace/intellijidea/SB_004_SpringBootTutorial/repository/spring-boot-with-tech-tutorial/sb-02-spring-module-examples/sb-13-spring-gridfs-fileupload/src/main/resources/docker-compose.yml up -d

```
EmreGltkn@DESKTOP-DN9PH1A MINGW64 ~
$ docker-compose -f /c/Works/PROJECTS/001_Workspace/intellijidea/SB_004_SpringBootTutorial/repository/spring-boot-with-tech-tutorial/sb-02-spring-module-examples/sb-13-spring-gridfs-fileupload/src/main/resources/docker-compose.yml up -d
Found orphan containers (resources_db_1, resources_spboot-rabbitmq_1, resources_elasticsearch_1, resources_adminer_1, resources_sboot-rabbitmq_1) for this project. If you removed or renamed this service in your compose file, you can run this command with the --remove-orphans flag to clean it up.
Starting resources_mongo_1 ...
Starting resources_mongo_1 ... done

EmreGltkn@DESKTOP-DN9PH1A MINGW64 ~
$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                               NAMES
064732e544b5   mongo:4.4.6 "docker-entrypoint.s..." 52 seconds ago Up 8 seconds   0.0.0.0:27017->27017/tcp        resources_mongo_1
```

POST http://localhost:8080/upload

+

...

▶ http://localhost:8080/upload

POST

http://localhost:8080/upload

Params

Authorization

Headers (9)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

	KEY	VALUE
<input checked="" type="checkbox"/>	file	<div>generic.png X</div>
	Key	Value

Response


```
Console  Actuator
2022-06-28 20:24:45.010 INFO 10972 --- [main] com.sb.gltkn.Application
2022-06-28 20:24:45.872 INFO 10972 --- [main] .s.d.r.c.RepositoryConfigurationDe
2022-06-28 20:24:45.886 INFO 10972 --- [main] .s.d.r.c.RepositoryConfigurationDe
2022-06-28 20:24:46.335 INFO 10972 --- [main] o.s.b.w.embedded.tomcat.TomcatWebSe
2022-06-28 20:24:46.349 INFO 10972 --- [main] o.apache.catalina.core.StandardServ
2022-06-28 20:24:46.350 INFO 10972 --- [main] org.apache.catalina.core.StandardEr
2022-06-28 20:24:46.488 INFO 10972 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/]
2022-06-28 20:24:46.488 INFO 10972 --- [main] w.s.c.ServletWebServerApplicationCo
2022-06-28 20:24:46.668 INFO 10972 --- [main] org.mongodb.driver.client
2022-06-28 20:24:46.743 INFO 10972 --- [68.99.102:27017] org.mongodb.driver.connection
2022-06-28 20:24:46.743 INFO 10972 --- [68.99.102:27017] org.mongodb.driver.connection
2022-06-28 20:24:46.745 INFO 10972 --- [68.99.102:27017] org.mongodb.driver.cluster
2022-06-28 20:24:47.216 INFO 10972 --- [main] o.s.b.w.embedded.tomcat.TomcatWebSe
2022-06-28 20:24:47.232 INFO 10972 --- [main] com.sb.gltkn.Application
2022-06-28 20:26:29.512 INFO 10972 --- [nio-8080-exec-2] o.a.c.c.C.[Tomcat].[localhost].[/]
2022-06-28 20:26:29.513 INFO 10972 --- [nio-8080-exec-2] o.s.web.servlet.DispatcherServlet
2022-06-28 20:26:29.514 INFO 10972 --- [nio-8080-exec-2] o.s.web.servlet.DispatcherServlet
2022-06-28 20:26:29.660 INFO 10972 --- [nio-8080-exec-2] org.mongodb.driver.connection
62bb39c595dd5018d9e99c4a
```

Aşağıdaki uygulama üzerinden fileUpload işleminin gerçekleştiğini görebiliriz. Yukarıdaki log'daki objectId ile aşağıdaki id bilgisi aynıdır.

Studio 3T for MongoDB - Full product trial

File Edit Database Collection Index Document GridFS View Help

Connect Collection IntelliShell SQL Aggregate Map-Reduce Compare Schema Reschema Tasks Export Import Data Masking SQL Migration Users Roles Feedback

Search Open Connections (Ctrl+F) ... aA <

SpringBootWithMongo 192.168.99.102:27017 [dire...

- > admin
- > config
- > local
- > myfiledb
 - > Collections (2)
 - > fs.chunks
 - > fs.files
 - > Views (0)
 - > GridFS Buckets (1)
 - > System (0)

fs.files

SpringBootWithMongo (192.168.99.102:27017) > myfiledb > fs.files

Query {}

Projection {} Sort {}

Skip Limit

Result Query Code Explain

50 Documents 1 to 1

fs.files > filename

_id	filename	length	chunkSize	uploadDate	metadata
id 62bb39c595dd5018d9e99c4a	generic.png	26198	261120	2022-06-28T17:...	{ 5 fields }

Result Query Code Explain

50 Documents 1 to 1

fs.files > metadata > _class

{Document id}	fileName	contentType	size	userId	_class
id 62bb39c595dd5018d9e99c4a	generic.png	image/png	26198	user1234	com.mongodb.BasicDBObject

fs.files

SpringBootWithMongo (192.168.99.102:27017) > myfiledb > fs.files

Query {}

Projection {} Sort {}

Skip Limit

ResultQuery CodeExplain

50Documents 1 to 1

Tree View

Key	Value	Type
(1) {_id : 62bb39c595dd5018d9e99c4a}	{ 6 fields }	Document
_id	62bb39c595dd5018d9e99c4a	ObjectId
filename	generic.png	String
length	26198	Int64
chunkSize	261120	Int32
uploadDate	2022-06-28T17:26:29.898Z	Date
metadata	{ 5 fields }	Object
fileName	generic.png	String
contentType	image/png	String
size	26198	Int64
userId	user1234	String
_class	com.mongodb.BasicDBObject	String