

Σκαρπέτης Ιωάννης

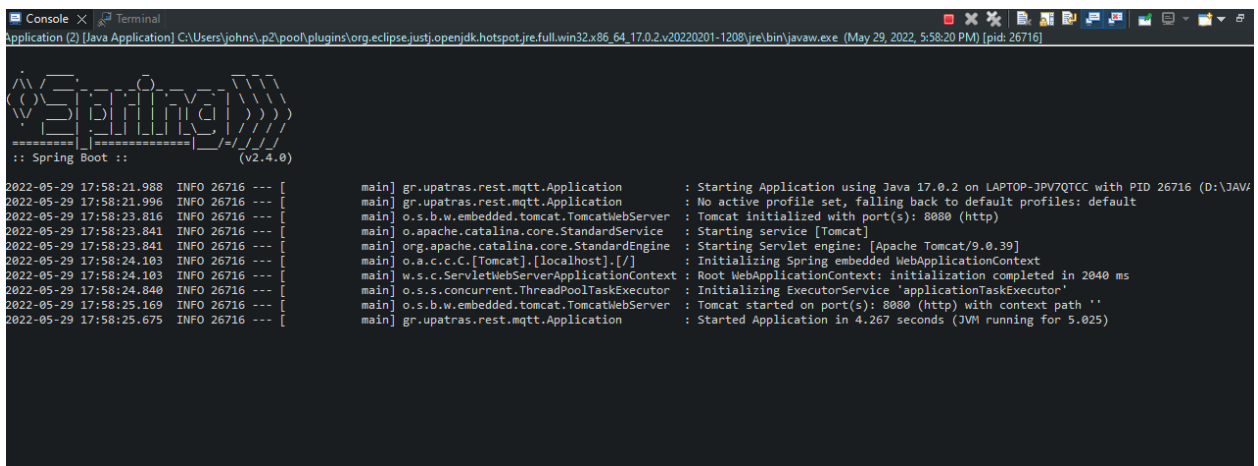
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4^ο Έτος

3^η Εργασία Προηγμένων Τεχνικών Προγραμματισμού

Github Link: https://github.com/jskarpetis/Advanced_Programming_Rest_Mqtt

1) Τρέχουμε το Application.java ως java application

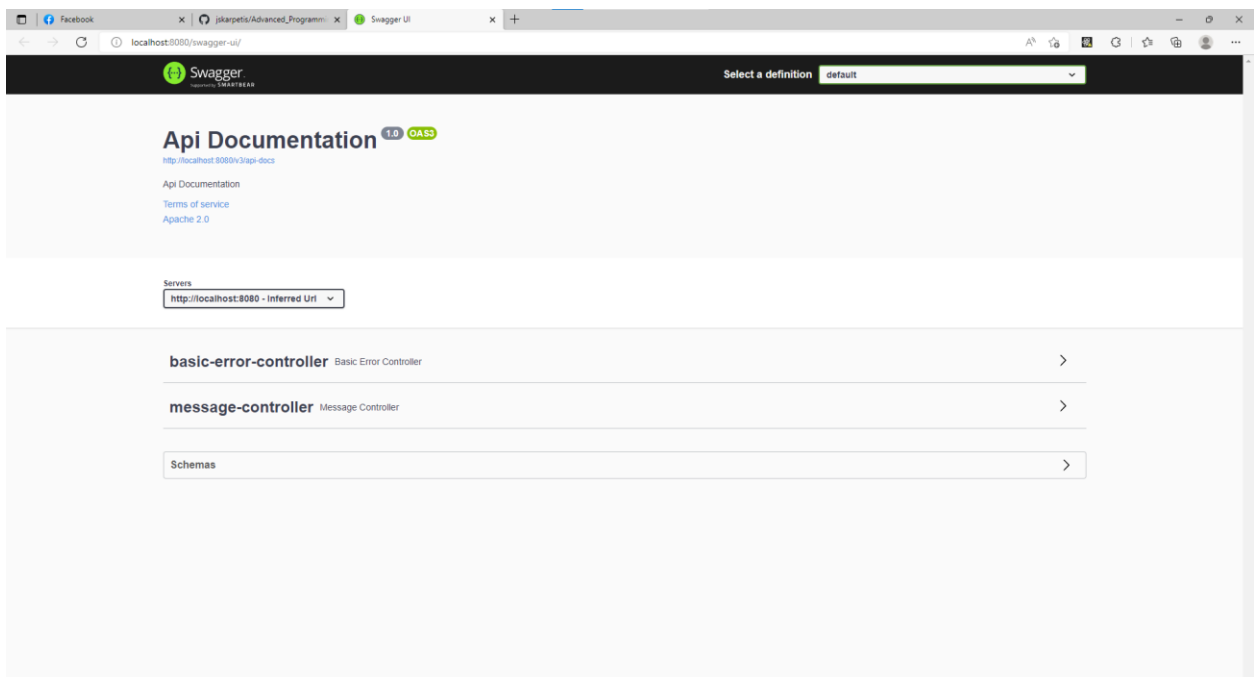


```
Application [2] [Java Application] C:\Users\johns.p2\poo\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (May 29, 2022, 5:58:20 PM) [pid: 26716]

:: Spring Boot ::
(v2.4.0)

2022-05-29 17:58:21.988 INFO 26716 --- [main] gr.upatras.rest.mqtt.Application : Starting Application using Java 17.0.2 on LAPTOP-JPV7QTCC with PID 26716 (D:\JAV
2022-05-29 17:58:21.996 INFO 26716 --- [main] gr.upatras.rest.mqtt.Application : No active profile set, falling back to default profiles: default
2022-05-29 17:58:23.816 INFO 26716 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2022-05-29 17:58:23.841 INFO 26716 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-05-29 17:58:23.841 INFO 26716 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.39]
2022-05-29 17:58:24.103 INFO 26716 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2022-05-29 17:58:24.103 INFO 26716 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 2040 ms
2022-05-29 17:58:24.840 INFO 26716 --- [main] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
2022-05-29 17:58:25.169 INFO 26716 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2022-05-29 17:58:25.675 INFO 26716 --- [main] gr.upatras.rest.mqtt.Application : Started Application in 4.267 seconds (JVM running for 5.025)
```

2) Συνδεόμαστε στο end-point, <http://localhost:8080/swagger-ui/>



3) Κάνουμε ένα post request στο message controller

No parameters

Request body application/json

```
{
  "id": 0,
  "message": "hello my name is john and i am happy"
}
```

Execute

Clear

Responses

Curl

```
curl -X POST "http://localhost:8080/send-message/" -H "accept: application/json;charset=utf-8" -H "Content-Type: application/json" -d "{\"id\":0,\"message\":\"hello my name is john and i am happy\"}"
```

Request URL

```
http://localhost:8080/send-message/
```

Server response

Code	Details
200	<div>Response body</div> <div><pre>{ "id": 1001, "message": "hello my name is john and i am happy" }</pre><div>Download</div></div> <div>Response headers</div> <div><pre>connection: keep-alive content-type: application/json;charset=utf-8 date: Sun29 May 2022 15:00:31 GMT keep-alive: timeout=60 transfer-encoding: chunked</pre></div>

4) Γίνεται το μήνυμα publish με mqtt

```
2022-05-29 18:00:25.817 INFO 26716 --- [4e-6cb4ab450051] gr.upatras.rest.mqtt.MyMqttClient : -----
2022-05-29 18:00:25.817 INFO 26716 --- [4e-6cb4ab450051] gr.upatras.rest.mqtt.MyMqttClient : | Topic:exercise 3 advanced prog tech
2022-05-29 18:00:25.817 INFO 26716 --- [4e-6cb4ab450051] gr.upatras.rest.mqtt.MyMqttClient : | Message: {"value":"hello my name is john and i am happy"}
2022-05-29 18:00:25.817 INFO 26716 --- [4e-6cb4ab450051] gr.upatras.rest.mqtt.MyMqttClient : -----
2022-05-29 18:00:25.817 INFO 26716 --- [4e-6cb4ab450051] gr.upatras.rest.mqtt.MyMqttClient :
```

Αυτό γίνεται όταν καλούμε το Mqtt client μέσω του message service.