YT Project Documentation

Introduction:

Since I have never coded with the Spring Boot framework before, I was able to quickly learn how to implement a Spring Boot program over the last few days. My implementation isn't exactly what was asked for as I don't store XML messages in my databases. Instead I store the title and url of a video within my data table shown in the picture below.



In my program I was able to implement the Singleton Design Pattern. The Singleton Pattern that I implemented involves using Singleton Beans as well as Autowired Singletons to communicate with the two databases.

The messages produced by the solution appears as an Object with the attributes of "id" as a Long, "title" as a String and "url" as a String.

How to compile the source code / How to execute the program:

- 1. Install PostgreSQL on your computer
- 2. Start up a PostgreSQL server and make sure that the port being used is 5432



3. Enter the psql server and create a database for both QueueA and QueueB

```
~ — psql -p5432 matthewbraden

Last login: Thu Feb 3 23:38:23 on ttys000

Matthews-MBP:~ matthewbraden$ /Applications/Postgres.app/Contents/Versions/14/bin/psql -p5432 "matthewbraden" psql (14.1)

Type "help" for help.

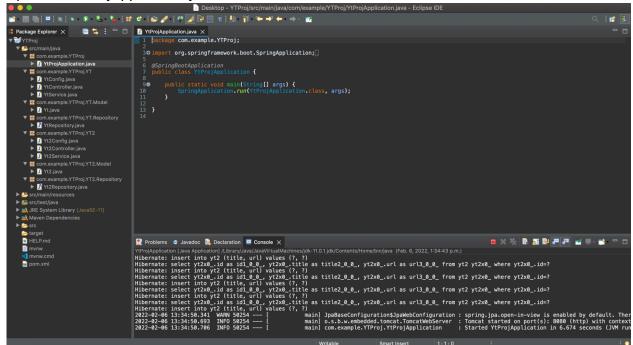
[matthewbraden=# CREATE DATABASE QueueA; CREATE DATABASE QueueB; CREATE DATABASE matthewbraden=# CREATE DATABASE matthewbraden=# [matthewbraden=# [matthewbraden
```

4. The next thing to do is to grant all privileges to both QueueA and QueueB

	~ — psql -p5432 matthewbraden List of databases					
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matthewbraden	matthewbraden			+ 8		
postgres	postgres	I UTF8	I en_US.UTF-	8 en_US.UTF	F-8 1 T 0 > S D P 1 D	
queuea	matthewbraden	I UTF8	I en_US.UTF-	8 en_US.UTF	F-8 I	
queueb	matthewbraden	I UTF8	I en_US.UTF-	8 en_US.UTF	F-8 I	
student	matthewbraden	I UTF8	I en_US.UTF-	8 en_US.UTF	F-8 =Tc/matthewbraden	+
		I			matthewbraden=CTc/n	natthewbraden
template0	postgres	I UTF8	I en_US.UTF-	8 en_US.UTF	-8 =c/postgres	+
cation		1	1		postgres=CTc/postgr	res
template1	postgres	I UTF8	l en_US.UTF-	8 en_US.UTF	-8 =c/postgres	naframewor
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(7 rows)					actId>sprin	
natthewbraden=# GRANT	GRANT ALL PRIVI	LEGES ON DA	TABASE "queu	ea" TO matthe	ewbraden;	
natthewbraden=# GRANT	GRANT ALL PRIVI	LEGES ON DA	TABASE "queu	ea" TO postgr	res;	
natthewbraden=#	GRANT ALL PRIVI	LEGES ON DA	TABASE "queu	eb" TO matthe	ewbraden;	
RANT			<den< td=""><td></td><td>:V></td><td></td></den<>		:V>	
atthewbraden=#	GRANT ALL PRIVI	LEGES ON DA	TABASE "queu	eb" TO postar	res:	
RANT				< anoma	Idsong poet	
natthewbraden=#	4					

5. Open the Eclipse IDE and import the YTProj project into the workspace

6. Open the YTProjApplication.java file and run the code



7. Open your web browser to the address http://localhost:8080/yt to see the data that is stored in QueueA

```
← → C ③ localhost:8080/yt
- {
     url: "https://www.youtube.com/watch?v=vYHh9vNHwIU",
     title: "FUNDAMENTALS OF TELECOM DOMAIN'
      url: "https://www.youtube.com/watch?v=-WyyrKbUruA",
     title: "Telecom Base Station Materials: A 3D Walkthrough"
     id: 3,
url: "https://www.youtube.com/watch?v=vRzLqYzPQDE",
title: "Telecom - Industry Overview"
     url: "https://www.youtube.com/watch?v=xRFe9jWY0hg",
     title: "Basic Telecom Concepts"
     id: 5,
url: "https://www.youtube.com/watch?v=1QXBdo-kXo8",
     title: "Telecom wiring color code"
     id: 6,
url: "https://www.youtube.com/watch?v=f7dHzrQzIMU",
     title: "TELECOM 2.0 エントロピー (ENTROPIJA) FULL ALBUM"
      id: 7,
      url: "https://www.youtube.com/watch?v=XGmeq2E4LLQ",
     title: "Power Glove - Telecom"
```

8. Open your web browser to the address http://localhost:8080/yt2 to see the data that is stored in QueueB

```
| Comparison of the comparison
```

Conclusion:

Looking back at my implementation, I wish I could've had a bit more time to try to learn the Spring Boot framework. Since I was not able to complete the YT Project as it was intended to, I would consider learning how to send and retrieve XML messages to a JMS database.