

FestivitiesApp Generation and Deployment Manual

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Aim: The purpose of this manual is to show to the user how to generate and deploy the FestivitiesApp

Prerequisites

Install Tomcat 7+

Install MySQL5.7+

Install Maven (it must be an environment variable)

Executing proadd.sql

Execute **proadd.sql**, you can find it in the directory `/src/main/resources/` of the project, you are free to change the user, password and database name if you wanted but keep in mind that you should update `hibernate.cfg.xml`.

```
1 CREATE DATABASE prodapp;
2
3 CREATE USER produser identified by 'passproduser';
4
5 GRANT ALL ON prodapp.* TO produser@'%';
6 GRANT ALL ON prodapp.* TO produser@localhost;
7
8 USE prodapp;
9
10 CREATE TABLE festivity (
11     id Integer PRIMARY KEY AUTO_INCREMENT,
12     name varchar(30) NOT NULL UNIQUE,
13     place varchar(30) NOT NULL,
14     start timestamp NOT NULL,
15     end timestamp NOT NULL
16 );
17
18 COMMIT;
```

Update hibernate.cfg.xml

Now go to directory `/src/main/resources/project` of the project and upgrade the database connection settings to your own database settings.

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
  <session-factory name="hibernateSessionFactory">
    <property name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</property>
    <property name="hibernate.connection.password">passproduser</property>
    <property name="hibernate.connection.url">jdbc:mysql://localhost:3306/prodapp?useTimezone=true&serverTimezone=UTC</property>
    <property name="hibernate.connection.username">produser</property>
    <property name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</property>
    <property name="hibernate.show_sql">>true</property>
    <property name="hibernate.format_sql">>true</property>
    <!-- <property name="hibernate.hbm2ddl.auto">create</property> -->
    <mapping class="com.nicolasilagos.festivities.domain.Festivity"/>
  </session-factory>
</hibernate-configuration>
```

Running Maven

Now open the Command Prompt and search the main folder of your project e.g.: `C:\FestivitiesApp`.

```

Exception

C:\Users\Nikolas>cd C:\FestivitiesApp

C:\FestivitiesApp>

```

Now execute the command **mvn clean install** then wait few seconds until the build has been finished.

```

C:\FestivitiesApp>mvn clean install


[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 28.720 s
[INFO] Finished at: 2017-01-11T14:31:21-05:00
[INFO] Final Memory: 21M/107M
[INFO] -----

```

Once it ends FestivitiesApp.war must be in the Target project folder.

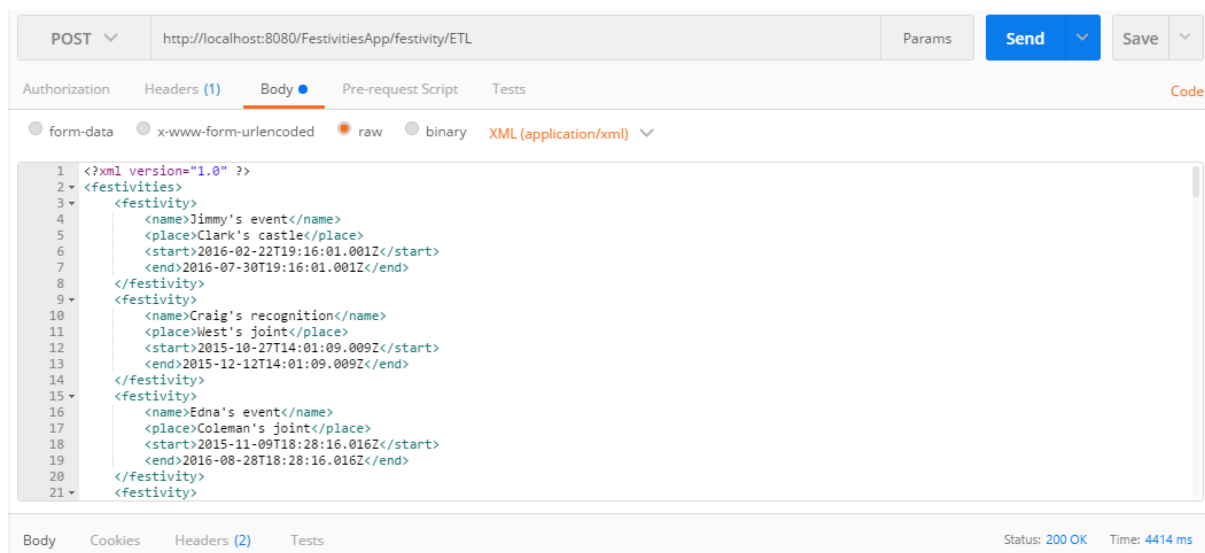
Deploying FestivitiesApp.war

Copy FestivitiesApp.war into Tomcat's webapps folder e.g.: C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps then restart your server.

 C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps

Execute ETL procedure

Finally execute the ETL procedure it must use festivities.xml it is in the directory /srs/main/resources of the project, you can use your prefer API such as Postman.



The screenshot shows the Postman interface for a POST request to `http://localhost:8080/FestivitiesApp/festivity/ETL`. The request body is set to "raw" with the content type "XML (application/xml)". The XML body contains the following structure:

```

1 <?xml version="1.0" ?>
2 <festivities>
3   <festivity>
4     <name>Jimmy's event</name>
5     <place>Clark's castle</place>
6     <start>2016-02-22T19:16:01.001Z</start>
7     <end>2016-07-30T19:16:01.001Z</end>
8   </festivity>
9   <festivity>
10    <name>Craig's recognition</name>
11    <place>West's joint</place>
12    <start>2015-10-27T14:01:09.009Z</start>
13    <end>2015-12-12T14:01:09.009Z</end>
14  </festivity>
15  <festivity>
16    <name>Edna's event</name>
17    <place>Coleman's joint</place>
18    <start>2015-11-09T18:28:16.016Z</start>
19    <end>2016-08-28T18:28:16.016Z</end>
20  </festivity>
21 </festivities>

```

The status bar at the bottom indicates "Status: 200 OK" and "Time: 4414 ms".