

WILDFLY

domingo, 30 de abril de 2023 08:50 p. m.

::::::::::::::::::: SECCION 65 ::::::::::::::::::::



-CLASE 545-

CREANDO ESTRUCTURA MODULAR EAR (EAR O ENTERPRISE ARCHIVE) :

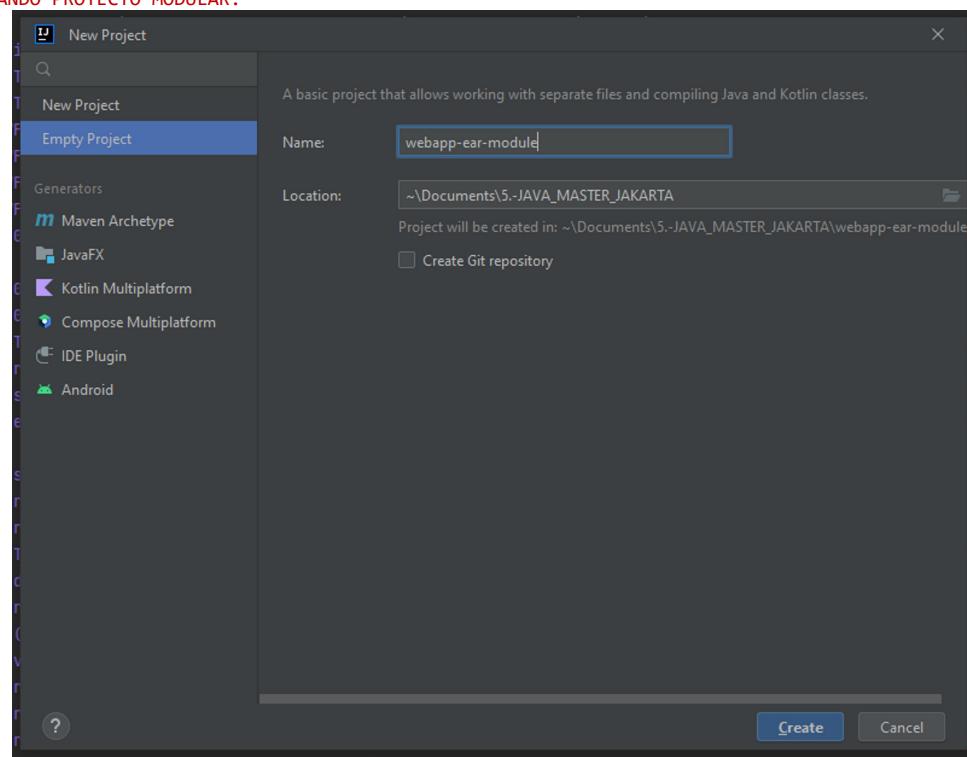
Webapp-ear-module

Webapp-ear-ejb

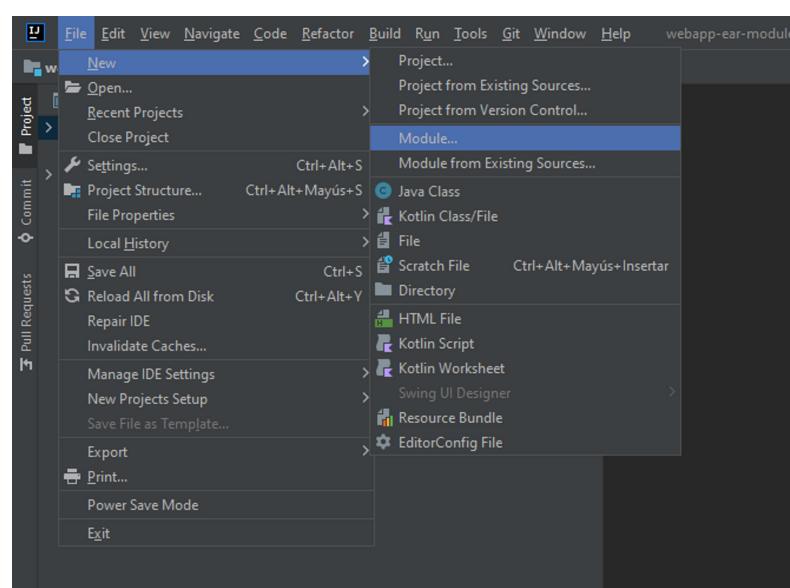
Webapp-ear-ear

Webapp-ear-war

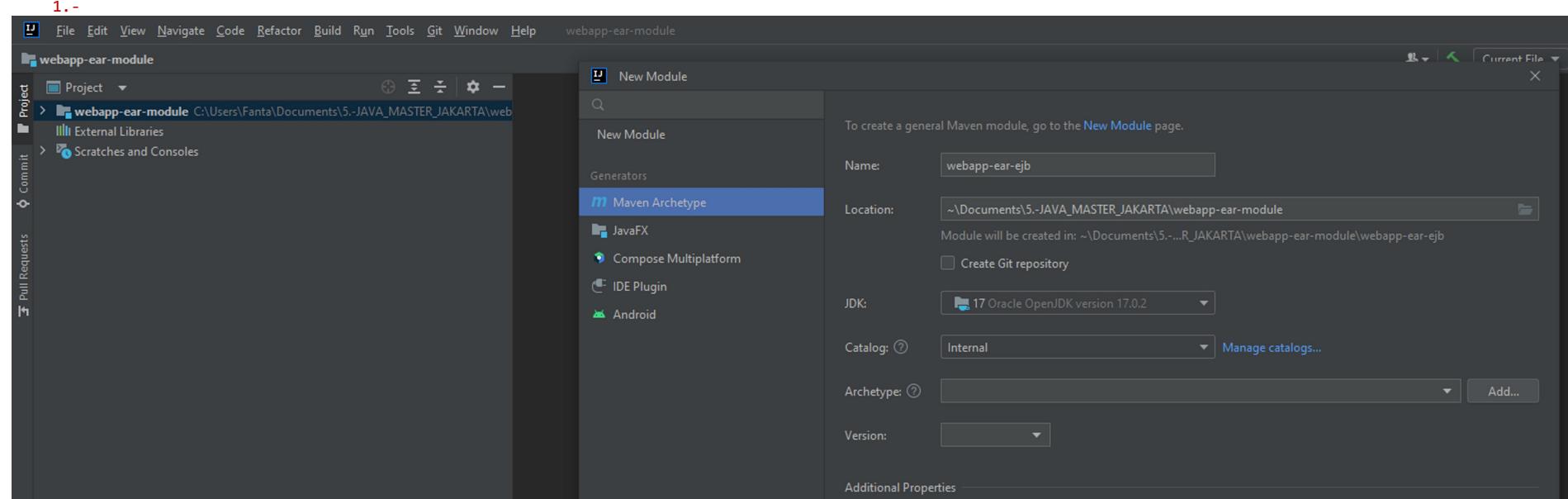
CREANDO PROYECTO MODULAR:

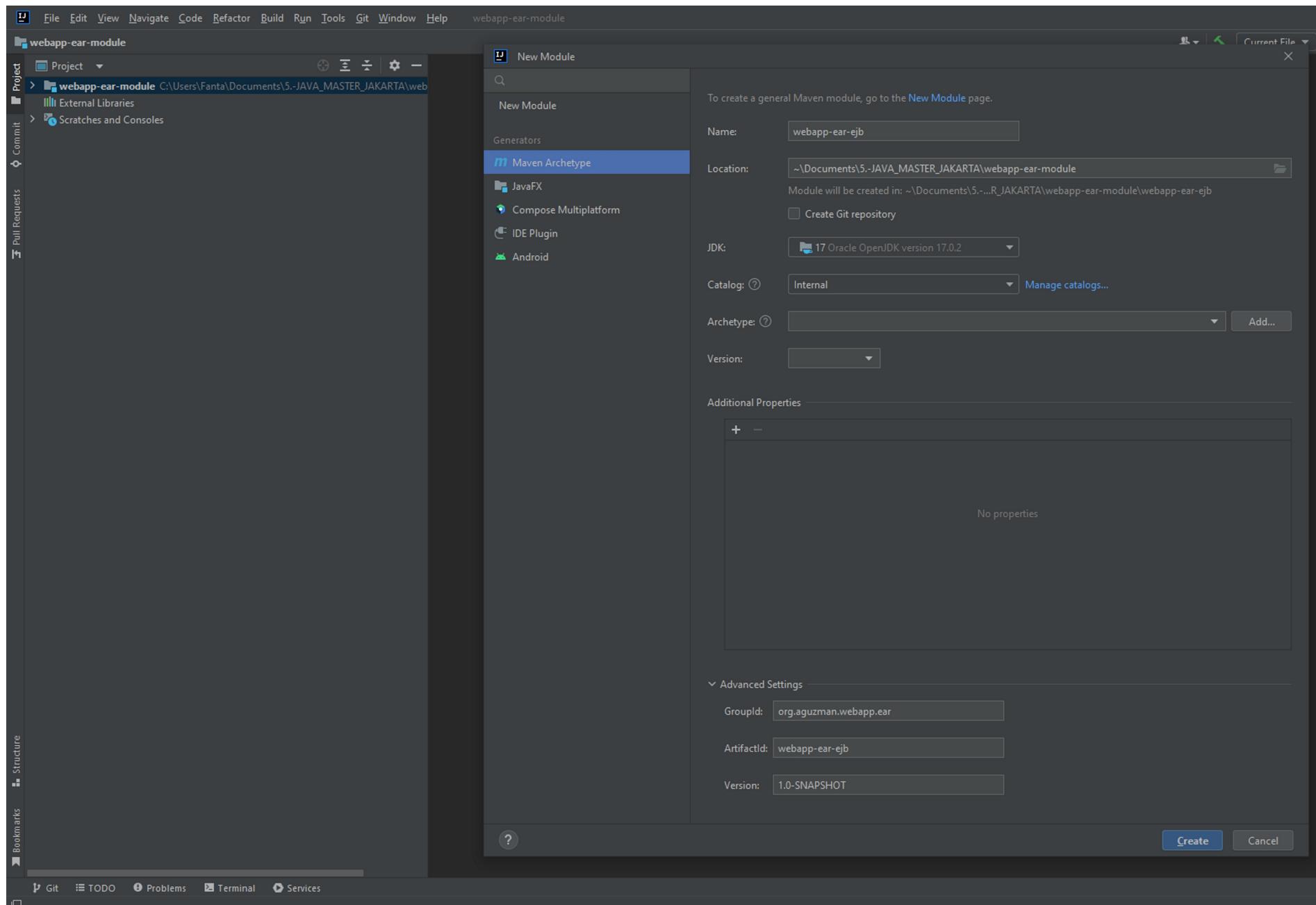


DENTRO DE webapp-ear-module SE CREAN TRES NUEVOS PROYECTOS DE MODULO:

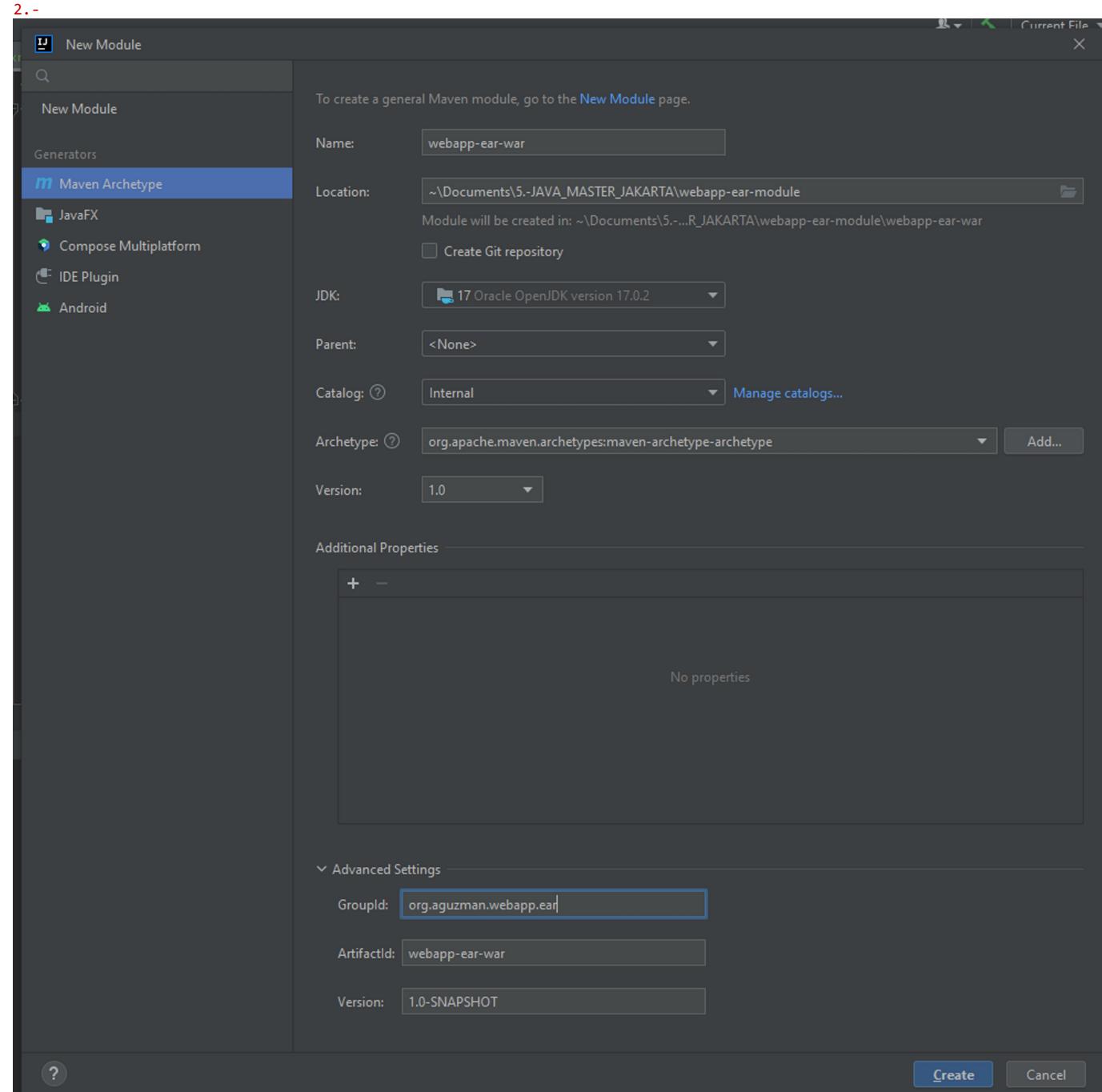


1. -

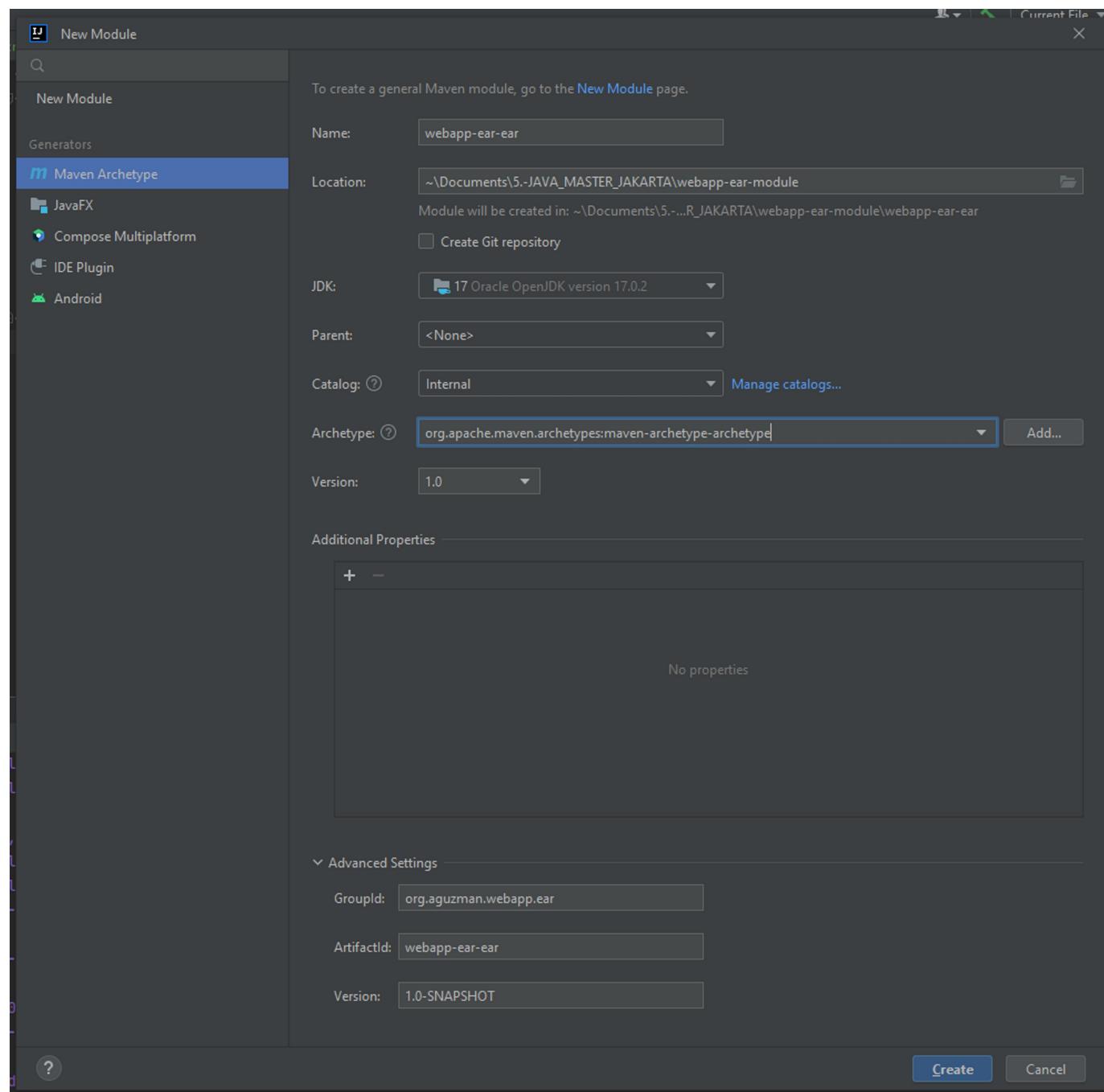




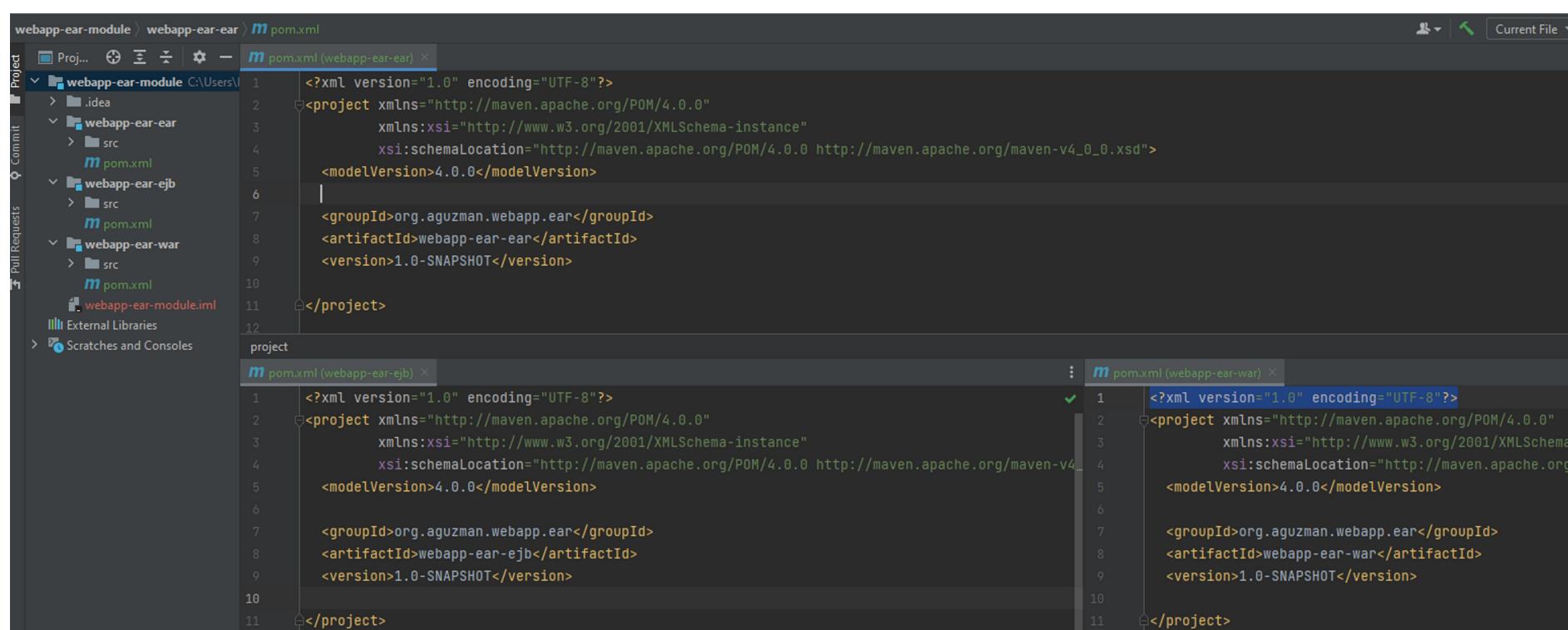
2. -



3.-ESTE ES EL PROYECTO PRINCIPAL Q CONTIENE A LOS DOS ANTERIORES



ESTRUCTURA INICIAL DEL PROYECTO



ESTRUCTURA BASE DE LOS POM'S :::

```

webapp-ear-ear

<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
          xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
          xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
    <modelVersion>4.0.0</modelVersion>

    <groupId>org.aguzman.webapp.ear</groupId>
    <artifactId>webapp-ear-ear</artifactId>
    <version>1.0-SNAPSHOT</version>
    <packaging>ear</packaging>

    <properties>
        <maven.compiler.source>17</maven.compiler.source>
        <maven.compiler.target>17</maven.compiler.target>
        <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
        <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
    </properties>

    <dependencies>

        <dependency>
            <groupId>jakarta.platform</groupId>
            <artifactId>jakarta.jakartaee-api</artifactId>
            <version>9.1.0</version>
            <scope>provided</scope>
        </dependency>
    </dependencies>

```

```

</dependency>

<dependency>
    <groupId>org.aguzman.webapp.ear</groupId>
    <artifactId>webapp-ear-ejb</artifactId>
    <version>1.0-SNAPSHOT</version>
    <type>ejb</type>
</dependency>

<dependency>
    <groupId>org.aguzman.webapp.ear</groupId>
    <artifactId>webapp-ear-war</artifactId>
    <version>1.0-SNAPSHOT</version>
    <type>war</type>
</dependency>

</dependencies>

<build>

    <finalName>${project.artifactId}</finalName>

    <plugins>
        <plugin>
            <artifactId>maven-compiler-plugin</artifactId>
            <version>3.8.1</version>
        </plugin>

        <plugin>
            <groupId>org.wildfly.plugins</groupId>
            <artifactId>wildfly-maven-plugin</artifactId>
            <version>2.1.0.Final</version>
        </plugin>

        <plugin>
            <artifactId>maven-ear-plugin</artifactId>
            <version>3.2.0</version>
        </plugin>

        <configuration>
            <modules>

                <webModule>
                    <groupId>org.aguzman.webapp.ear</groupId>
                    <artifactId>webapp-ear-war</artifactId>
                    <!--SE DEFINE UNA URL RAIZ DEL PROYECTO-->
                    <contextRoot>/webapp-ear</contextRoot>
                    <!--SE RENOMBRA COMO SE VA A PUBLICAR DENTRO DEL EAR, EL ARCHIVO WAR.
                    CON ESTO SE ACORTA EL NOMBRE , YA QE CUANDO SE GENERA EL WAR LE PONE EL SNAPSHOT Y LA WEA-->
                    <bundleFileName>webapp-ear-war.war</bundleFileName>
                </webModule>

                <ejbModule>
                    <groupId>org.aguzman.webapp.ear</groupId>
                    <artifactId>webapp-ear-ejb</artifactId>
                    <bundleFileName>webapp-ear-ejb.jar</bundleFileName>
                </ejbModule>
            </modules>
        </configuration>
    </plugin>
    </plugins>
</build>

</project>

```

```

webapp-ear-ejb
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
    <modelVersion>4.0.0</modelVersion>

    <groupId>org.aguzman.webapp.ear</groupId>
    <artifactId>webapp-ear-ejb</artifactId>
    <version>1.0-SNAPSHOT</version>

    <packaging>ejb</packaging>

    <properties>
        <maven.compiler.source>17</maven.compiler.source>
        <maven.compiler.target>17</maven.compiler.target>
        <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
        <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
    </properties>

    <dependencies>
        <dependency>
            <groupId>jakarta.platform</groupId>
            <artifactId>jakarta.jakartaee-api</artifactId>
            <version>9.1.0</version>
            <scope>provided</scope>
        </dependency>
    </dependencies>

    <build>

        <finalName>${project.artifactId}</finalName>

        <plugins>
            <plugin>
                <artifactId>maven-compiler-plugin</artifactId>
                <version>3.8.1</version>
            </plugin>

            <plugin>
                <artifactId>maven-ejb-plugin</artifactId>
                <version>3.1.0</version>
                <configuration>
                    <ejbVersion>3.2</ejbVersion>
                </configuration>
            </plugin>
        </plugins>
    </build>

```

```

</project>

```

```

webapp-ear-war
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
    <modelVersion>4.0.0</modelVersion>

    <groupId>org.aguzman.webapp.ear</groupId>
    <artifactId>webapp-ear-war</artifactId>

```

```

<version>1.0-SNAPSHOT</version>
<packaging>war</packaging>
<properties>
    <maven.compiler.source>17</maven.compiler.source>
    <maven.compiler.target>17</maven.compiler.target>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
</properties>

<dependencies>
    <dependency>
        <groupId>jakarta.platform</groupId>
        <artifactId>jakarta.jakartaee-api</artifactId>
        <version>9.1.0</version>
        <scope>provided</scope>
    </dependency>

    <dependency>
        <groupId>org.aguzman.webapp.ear</groupId>
        <artifactId>webapp-ear-ejb</artifactId>
        <version>1.0-SNAPSHOT</version>
        <type>ejb</type>      <!-- LE DECIMOS Q ES DEL TIPO EJB-->
        <scope>provided</scope>
    </dependency>
</dependencies>

<build>
    <finalName>${project.artifactId}</finalName>
    <plugins>
        <plugin>
            <artifactId>maven-compiler-plugin</artifactId>
            <version>3.8.1</version>
        </plugin>

        <plugin>
            <artifactId>maven-war-plugin</artifactId>
            <version>3.2.3</version>
            <configuration>
                <failOnMissingWebXml>false</failOnMissingWebXml>
            </configuration>
        </plugin>
    </plugins>
</build>
</project>

```

-----CLASE 546-----

[546. Configurando Datasource en servidor Wildfly y persistencia JPA en el módulo ejb](#)

DESCARGAR DRIVER DE MYSQL Y CONFIGURARLO EN WILDFLY:

EN webapp-ear-ear . . .

EL DRIVER SE PUEDE DESCARGAR DESDE EL MISMO INTELLIJ:

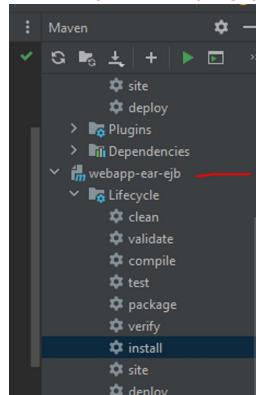
1.-AGREGA LA DEPENDENCIA DE MYSQL EN EL POM DE webapp-ear-ear:

```

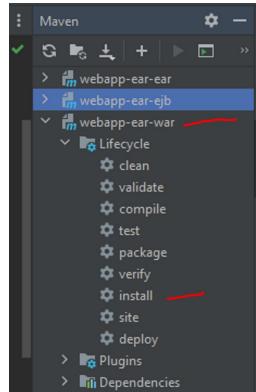
<dependency>
    <groupId>com.mysql</groupId>
    <artifactId>mysql-connector-j</artifactId>
    <version>8.0.32</version>
</dependency>

```

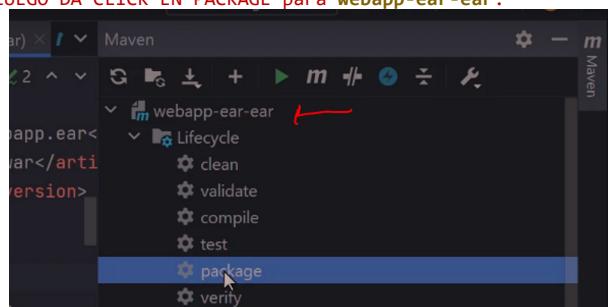
2.-ANDA AL POM DEL PROYECTO webapp-ear-ejb Y DALE INSTALL



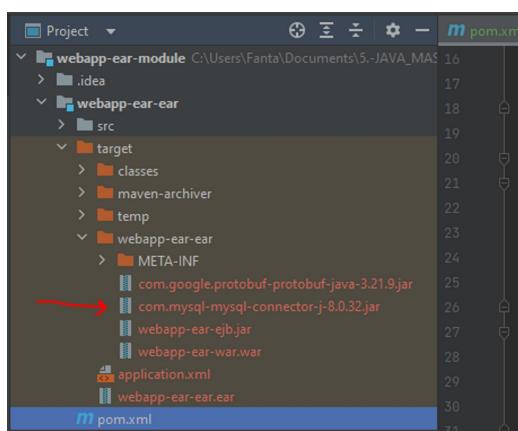
3.-ANDA AL POM DEL PROYECTO webapp-ear-war Y DALE INSTALL



4.-LUEGO DA CLICK EN PACKAGE para webapp-ear-ear:



5.-VERIFICA LA DESCARGA DEL CONECTOR MYSQL:



6.- QUITA LA DEPENDENCIA DE MYSQL QUE AGREGASTE EN EL PUNTO (1.-) EN EL POM DE webapp-ear-ear.

LEVANTA WILDFLY:

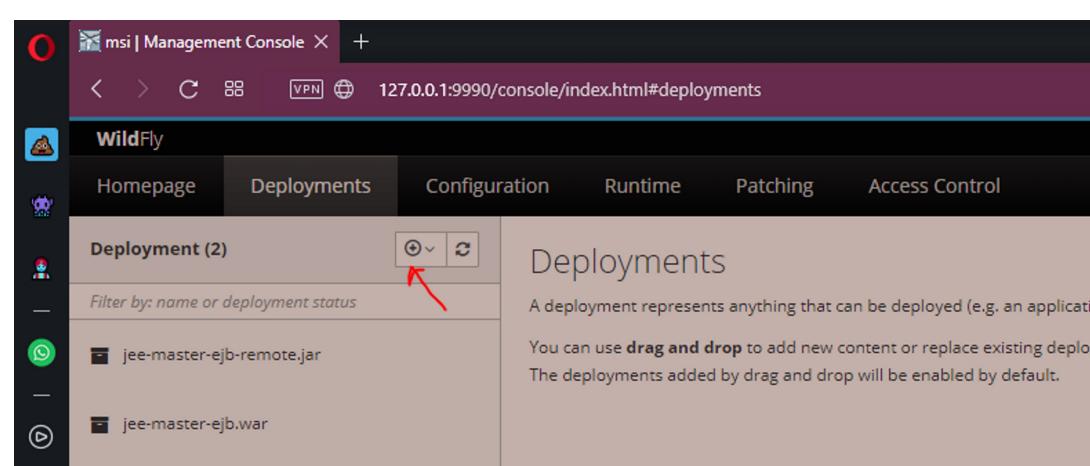
```
PS C:\developjava\wildfly-preview-26.1.3.Final\bin> cd C:\developjava\wildfly-preview-26.1.3.Final\bin
PS C:\developjava\wildfly-preview-26.1.3.Final\bin> .\standalone.bat
```

TOMA LA RUTA DE LA TERMINAL : <http://127.0.0.1:9990>

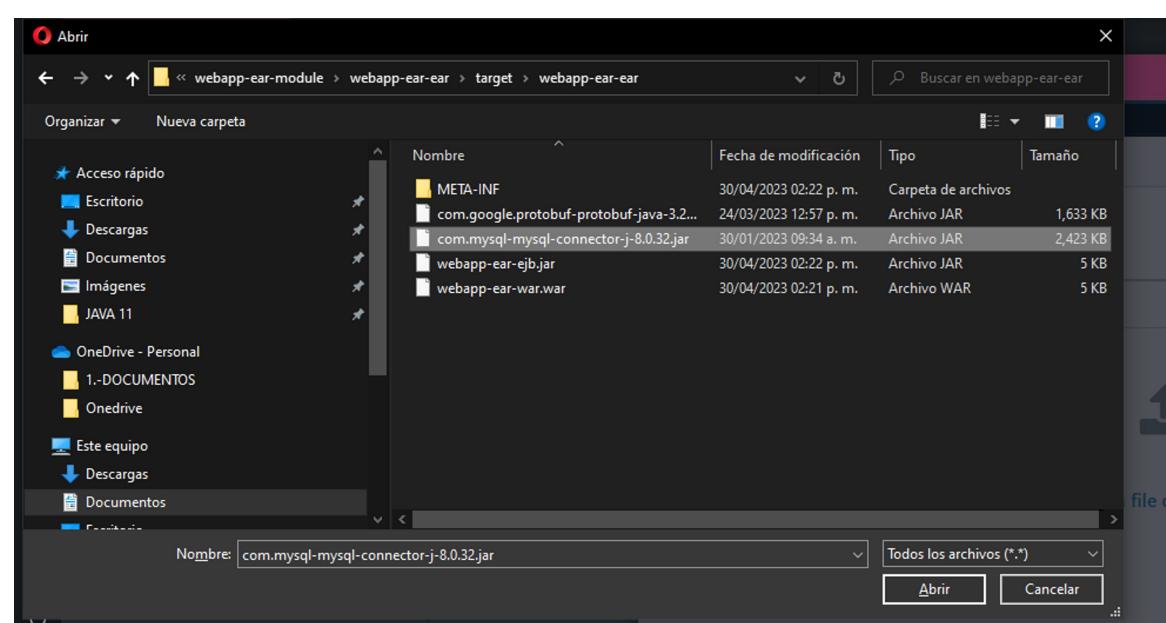
ACCESO A WILDFLY :

```
axel
12345
```

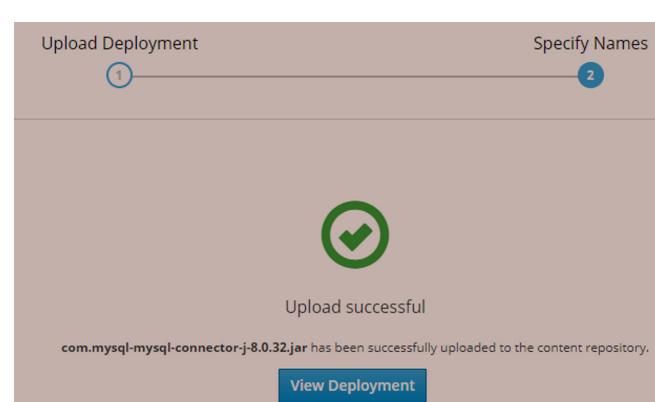
AGREGA EL JAR:
(SELECCIONA "Upload Deployment")



SELECCIONA EL CONECTOR



LUEGO DALE NEXT Y FINISH :



Dale close ... y

The screenshot shows the WildFly Management Console with the 'Deployments' tab selected. The deployment list includes 'com.mysql:mysql-connector-j-8.0.32.jar', 'jee-master-ejb-remote.jar', and 'jee-master-ejb.war'. A red arrow points to the MySQL connector jar entry.

LUEGO TE VAI AL INTELLIJ Y ELIMINA LAS CARPETAS TARGET DE LOS 3 PROYECTOS CON EL CLEAN.

The screenshot shows the IntelliJ Maven tool window with the 'Lifecycle' tab selected. It lists various goals like clean, validate, compile, test, etc., and three projects: 'webapp-ear-ear', 'webapp-ear-ejb', and 'webapp-ear-war'. Red arrows highlight the 'clean' goal and the three projects.

REVISA EN EL WILDFLY

The screenshot shows the WildFly Management Console with the 'Configuration' tab selected. It navigates through 'Subsystems' to 'Datasources & Drivers' and then to 'JDBC Driver'. A red arrow points to the MySQL connector driver entry in the list.

AHORA AGREGA UN NUEVO DATASOURCE :

The screenshot shows the WildFly Management Console with the 'Configuration' tab selected. It navigates through 'Subsystems' to 'datasources' and then to 'DataSources'. A modal dialog is open with the 'Add Data Source' button highlighted.

EN EL MODULO QUE SE ABRE ,
 1- ELIGE TU BASE DE DATOS.
 2- LUEGO EN LA SIGUIENTE COPIA Y PEGA TU "java:/MySqlDS" EN ALGUNA PARTE Y DALE NEXT.
 3- EN LA SIGUIENTE PONE TU NOMBRE DE CONECTOR.
 4- PONE TU URL DE CONEXIÓN Y CREDENCIALES DE TU BBDD.
 5- TEST DE CONEXIÓN

The screenshot shows the 'Add Data Source' wizard at the 'Test Connection' step. It displays a green checkmark icon and the message 'Test Connection Successful'.

LUEGO VIENE EL REVIEW , FINISH Y CLOSE ...

AHORA TIENES TU CONEXIÓN MYSQL EN DATASOURCE:

The screenshot shows the WildFly Management Console with the 'Configuration' tab selected. It navigates through 'Subsystems' to 'datasources' and then to 'DataSources'. A new datasource named 'MySqlDS' is listed in the list.

EN EL INTELLIJ :

CONFIGURACION DE LA PERSISTENCIA. SE CREA EL PERSISTENCE.XML CON EL DATASOURCE Q SE ACABA DE CREAR

```

<?xml version="1.0" encoding="UTF-8" ?>
<persistence xmlns="https://jakarta.ee/xml/ns/persistence" version="3.0">
    <persistence-unit name="ejemploJpa" transaction-type="JTA">
        <provider>org.hibernate.jpa.HibernatePersistenceProvider</provider>
        <jta-data-source>java:/MySqlDS</jta-data-source>
        <properties>
            <property name="hibernate.show_sql" value="true"/>
            <property name="hibernate.dialect" value="org.hibernate.dialect.MySQL8Dialect"/>
        </properties>
    </persistence-unit>
</persistence>

```

--CLASE 547--

DESARROLLO EN INTELLIJ

--CLASE 548--

DESARROLLO EN INTELLIJ

DESPLEGANDO EL PROYECTO

1.- COMPILAR LOS PROYECTOS:

PRIMERO SE COMPILA EL webapp-ear-ejb , ya que este es dependencia del war y del ear.
DESPUES SE COMPLILA EL webapp-ear-war.

Luego con el webapp-ear-ear , pero aplica "package" , ya q este no es dependencia.

...

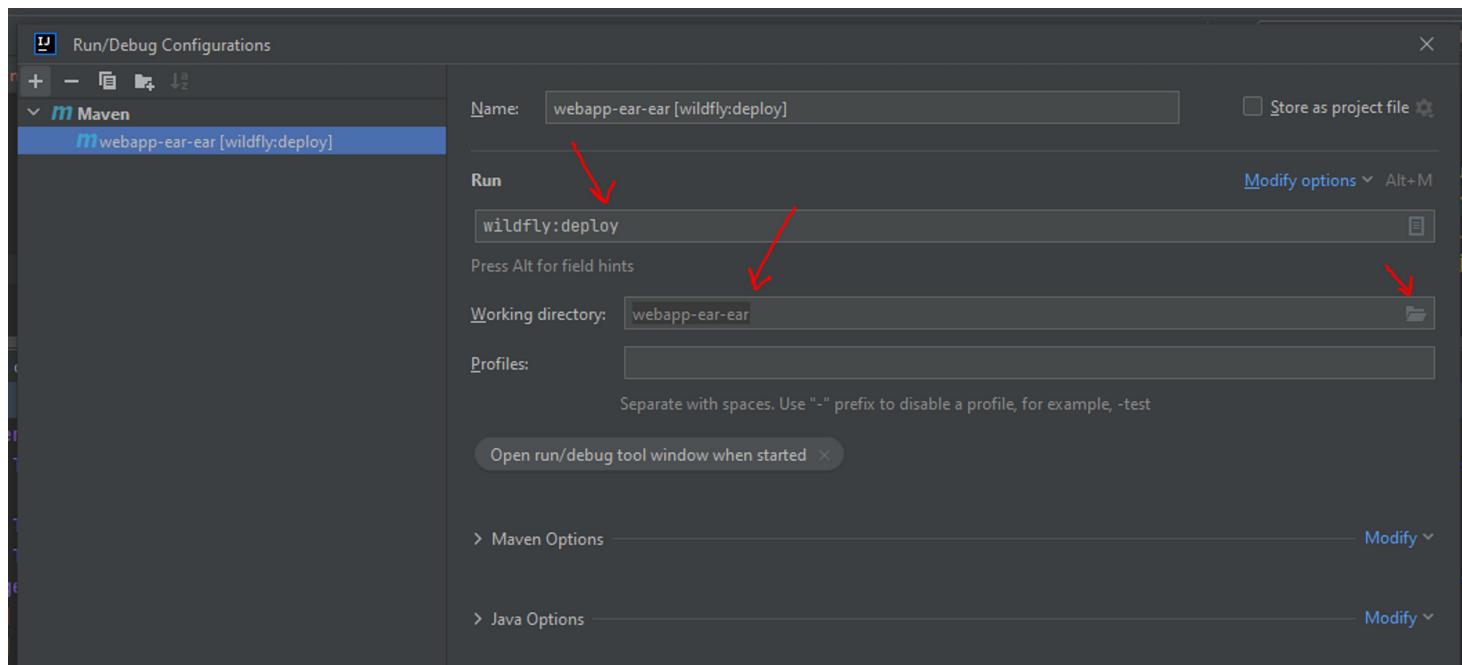
2.- LUEGO LEVANTA WILDFLY

```

PS C:\developjava\wildfly-preview-26.1.3.Final\bin> cd C:\developjava\wildfly-preview-26.1.3.Final\bin
PS C:\developjava\wildfly-preview-26.1.3.Final\bin> ./standalone.bat

```

3.-FINALMENTE PARA DESPLEGAR, CONFIGURA EL RUN Y DALE RUN...



DALE RUN Y REVISA LA TERMINAL

```
21:08:34,272 INFO [org.jboss.as.jpa] (ServerService Thread Pool -- 82) WFLYJPA0010: Starting Persistence Unit (phase 1 of 2) Service 'webapp-ear-ear.ear/webapp-ear-ejb.jar#ejemploJpa'
21:08:34,300 INFO [org.hibernate.jpa.internal.util.LogHelper] (ServerService Thread Pool -- 82) HHH000204: Processing PersistenceUnitInfo [
    name: ejemploJpa
    ...
]
21:08:34,383 INFO [org.hibernate.Version] (ServerService Thread Pool -- 82) HHH000412: Hibernate Core {5.3.28.Final}
21:08:34,384 INFO [org.hibernate.cfg.Environment] (ServerService Thread Pool -- 82) HHH000206: hibernate.properties not found
21:08:34,529 INFO [org.hibernate.annotations.common.Version] (ServerService Thread Pool -- 82) HCANN000001: Hibernate Commons Annotations {5.0.5.Final}
21:08:34,599 INFO [org.jboss.as.jpa] (ServerService Thread Pool -- 82) WFLYJPA0010: Starting Persistence Unit (phase 2 of 2) Service 'webapp-ear-ear.ear/webapp-ear-ejb.jar#ejemploJpa'
21:08:34,866 INFO [org.hibernate.dialect.Dialect] (ServerService Thread Pool -- 82) HHH000400: Using dialect: org.hibernate.dialect.MySQL8Dialect
21:08:34,932 INFO [org.hibernate.envers.boot.internal.EnversServiceImpl] (ServerService Thread Pool -- 82) Envers integration enabled? : true
21:08:35,345 INFO [org.wildfly.extension.undertow] (ServerService Thread Pool -- 92) WFLYUT0021: Registered web context: '/webapp-ear' for server 'default-server'
21:08:35,393 INFO [org.jboss.as.server] (management-handler-thread - 1) WFLYSRV0010: Deployed "webapp-ear-ear.ear" (runtime-name : "webapp-ear-ear.ear")
```

4.-REVISA TU CONSOLA WILDFLY

<http://127.0.0.1:9990>
axel
12345

The deployment webapp-ear-ear.ear is enabled and active. [Disable](#)

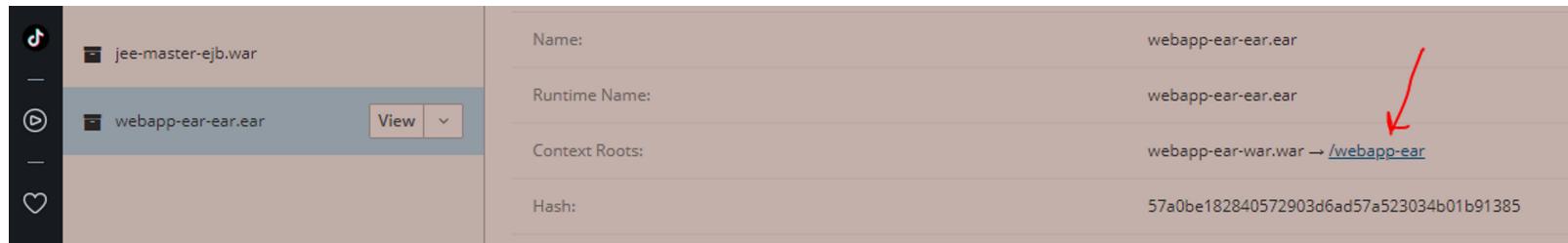
Main Attributes	
Name:	webapp-ear-ear.ear
Runtime Name:	webapp-ear-ear.ear
Context Roots:	webapp-ear-war.war → /webapp-ear
Hash:	c499dc98bd17ac4ef3ff8c140476853d89407b63
Enabled, Managed, Exploded:	✓ ✓ ✘
Status:	OK
Last enabled at:	4/30/23, 8:08 PM
Last disabled at:	n/a

Subdeployments

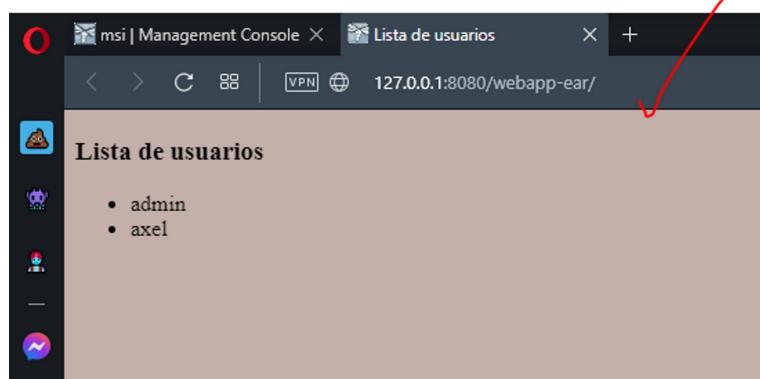
- webapp-ear-war.war ✓
- webapp-ear-ejb.jar ✓

5.- Haz click en "view" para ver la estructura completa del proyecto:

6.- VERIFICANDO QUE NO QUEDAN ERRORES EN EL PROYECTO , CONEXIÓN , CONFIGURAACION, ETC :



SE CARGÓ EL JSP CON LOS DATOS DE LA BASE DE DATOS :)



WORKBENCH

	id	username	password	email
1	1	admin	12345	admin@correo.com
2	2	axel	12345	axel@correo.com
*	HULL	NULL	NULL	NULL

 Below the grid, there's a 'Views' section and a 'JSP' section containing code for 'listar.jsp'."/>

AL ACTUALIZAR <http://127.0.0.1:8080/webapp-ear/> , DESPUES DE CADA REQUEST, EL PROYECTO ESTÁ CONFIGURADO PARA Q CIERRE LA CONEXIÓN:

```

21:51:55,051 INFO [org.jboss.as.repository] (management-handler-thread - 1) WFLYDR0002: Content removed from location
tent
21:32:28,856 INFO [org.hibernate.hql.internal.QueryTranslatorFactoryInitiator] (default task-1) HHH000397: Using AST
21:32:28,897 INFO [stdout] (default task-1) Hibernate: select usuario0_.id as id1_0_, usuario0_.email as email2_0_,
21:32:29,354 INFO [stdout] (default task-1) Cerrando la conexión del entity manager! ↗
21:40:57,827 INFO [stdout] (default task-1) Hibernate: select usuario0_.id as id1_0_, usuario0_.email as email2_0_,
21:40:57,832 INFO [stdout] (default task-1) Cerrando la conexión del entity manager! ↗
  
```

AQUÍ LO CONFIGURAS:

:::::::::::::::::::: FIN SECCION 65 . . .