Creating a Java EE project

JBoss Tools provides project templates for different types of JBoss projects. In this section, we will create a Java EE project for an EJB 3.x application. Select **File | New | Other** in Eclipse IDE. In the New wizard, select the **Red Hat Central | Java EE EAR Project** wizard. Click on the **Next** button:

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The New Project Example window lists the requirements and runs a test for the requirements. The JBoss AS runtime is required and some plugins (including the JBoss Maven Tools plugin) are required for a Java EE project. Select Target Runtime as WildFly 11.0 Runtime, which was created in the preceding section. Then, check the **Create a blank project** checkbox. Click on the **Next** button:

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Specify Project name as **jboss-ejb3**, Package as **org.jboss.ejb3**, and tick the **Use default Workspace** location box. Click on the **Next** button:

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Specify Group Id as **org.jboss.ejb3**, Artifact Id as **jboss-ejb3**, Version as 1.0.0, and Package as **org.jboss.ejb3.model**. Click on **Finish**:

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A Java EE project gets created, as shown in the following Project Explorer window. Delete the jboss-ejb3/jboss-ejb3-ear/src/main/application/META-INF/jboss-ejb3-ds.xml configuration file. The **jboss-ejb3** project consists of three subprojects: **jboss-ejb3-ear**, **jboss-ejb3-ejb**, and **jboss-ejb3-web**. Each subproject consists of a pom.xml file for Maven.

The **jboss-ejb3-ejb** subproject consists of a **META-INF/persistence.xml** file within the **src/main/resources** source folder for the JPA database persistence configuration.

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To use MySql as the database server follow the below steps:

1. Add the following dependency

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<version>5.1.47</version>

</dependency>

1. Follow the below link to configure a new datasource

<https://lucasmarques.me/mysql-wildfly-datasource/>

1. Change the default datasource by logging into Wildfly Admin console (http://localhost:9990/console/App.html#home). Go to Configuration -> Subsystems -> EE -> Click View -> Default Bindings -> Edit the Datasource

The new datasource name can be obtained from by going to Runtime -> Standalone Server -> Subsystems -> Click View (e.g. java:jboss/datasources/bookstore-ds)

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In EJB 3.x, an entity is a POJO (Plain Old Java Object) persistent domain object that represents a database table row. As an entity is a Java class, create a Java class in the **jboss-ejb3-ejb** subproject of the jboss-ejb3 project. Select **File | New**. In the New window, select **Java | Class** and click on **Next**.

Select/specify **jboss-ejb3/jboss-ejb3-ejb/src/main/java** as the Java Source folder, **org.jboss.ejb3.model** as the Package, and **Catalog** as the class Name. Click on **Finish**.

Similarly, add Java classes for the **Edition.java**, **Section.java**, and **Article.java** entities

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