

Lab Exercise 05: Setting Up a Basic Drools Project

Objective

The goal of this exercise is to set up a simple Drools project using IntelliJ IDEA. You will download Drools, configure the project, and create a basic rule to verify the setup.

Steps:

1. Creating New Project in IntelliJ IDEA:

- Open IntelliJ IDEA.
- Select "New Project".
- Configure the new project with these settings:
 - Project type: Maven
 - Name: Choose a name (e.g., `drools 8`)
 - Location: Default or choose a different location
 - Language: Java
 - Build System: Maven
 - JDK: Select corretto-17 or a similar, compatible JDK
 - Advanced Settings:
 - GroupID: `org.sw`
 - ArtifactID: `drools`
- Click "Create".

2. Setting Up pom.xml:

- Open the `pom.xml` file in your project.
- Replace its contents with the contents from the `dependencies.docx` file provided.
- Load Maven changes to update project dependencies.

3. Creating Directory Structure:

- Under the `src/main/resources` folder, create two new directories:
 - `org.sw.rules`
 - `META-INF`

4. Creating a Drools Rule File:

- Under `src/main/resources/org.sw.rules`, create a new Drools Rule File named `HelloWorld.drl`.
- Copy the contents from the `SetupCodes.docx` file, section 'Test Rule', into the `HelloWorld.drl` file.

5. Setting Up kmodule.xml:

- Under `src/main/resources/META-INF`, create a new file named `kmodule.xml`.
- Copy the contents from the `SetupCodes.docx` file, section 'Session Setup', into the `kmodule.xml` file.

6. Creating the Main Java Class:

- Under the `src/main/java/org.sw` folder, create a new Java Class named `Main`.
- Copy the contents from the `SetupCodes.docx` file, section 'Main Java Class', into your `Main` class.

7. Running the Project:

- Run the `Main` class in IntelliJ IDEA.
- Verify the output in the console. It should display:

```
==== DROOLS SESSION START =====
```

```
Hello, World!
```

```
==== DROOLS SESSION FINISH ====
```

```
Process finished with exit code 0
```

Conclusion

Completing this exercise will provide a basic setup for a Drools project in IntelliJ IDEA. This setup is a foundational step for more complex Drools applications.