

Practice **Structure, Package, and Build a Java Web Application Using Maven**



Practice

- Generate Fibonacci Series

An illustration of a woman with dark hair and glasses, wearing a red top, and a man with brown hair and glasses, wearing a yellow top. They are sitting at a light blue desk with a large blue computer monitor. The woman is holding a yellow clipboard. On the desk, there is a white coffee cup with a red lid, a yellow pencil, and a red pencil. The background is light green with some abstract shapes and a large green plant on the right.

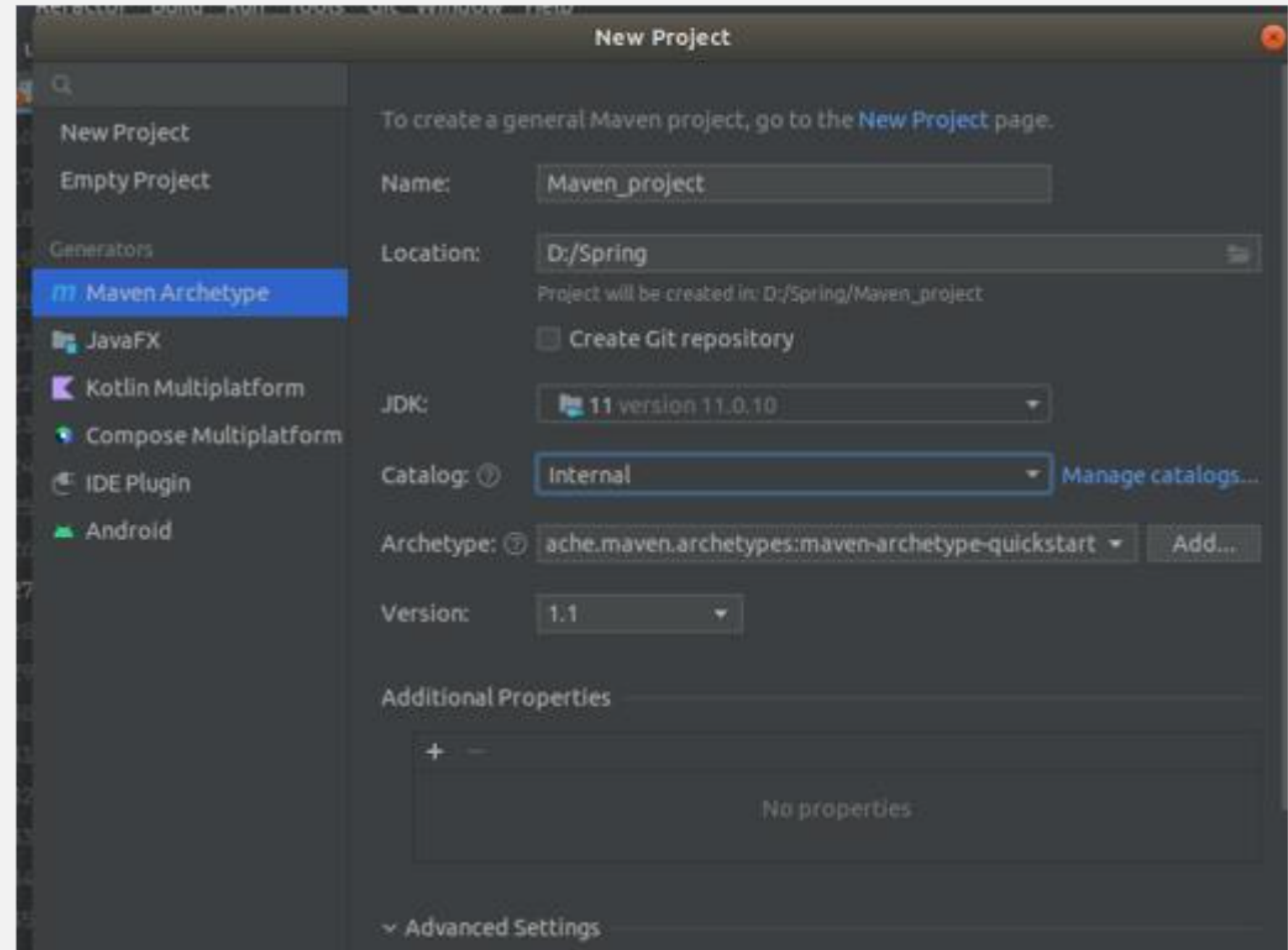
PRACTICE

Practice: Generate Fibonacci Series

Write a simple Java program to generate the Fibonacci series. Structure the project using Maven.

Implementation Environment

- Install the community edition of IntelliJ on your machine.
- Click [here](#) to install
- After installation, open the IntelliJ IDE
- Click on **File -> New Project**
- Select the **Maven Archetype**
- Provide the name of the project and select the location
- Select the Archetype as maven-archetype-quickstart
- Provide groupId and artifactId in Advanced settings
- Click on **Create**



Practice: Tasks

- In the `pom.xml`, the Maven compiler must point to Java version 11.
- Ensure Junit 4 dependencies are included in the `pom.xml`.
- Create a class named `Fibonacci` and write the logic for generating the series in a method inside the class.
- Write test cases inside the `src/test/java` folder for the method created in the `Fibonacci` class.
- Execute maven commands to compile, test, and package the application.
- Use the `mvn clean compile package` command to create the jar file and build the project.

Submission Instructions

- There is no boilerplate for this practice.
- Create a new repository on Git named **BEJ_C1_S1_Maven_Structure_PC_1_Fibonacci**.
- After completing the practice, push the code back to git using the below commands.

```
git init
git remote add origin <url>
git add .
git commit -m "comments on the push"
git push -u origin master
```

- Submit it for review.