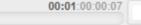


# Implement Inversion of Control (IoC) Inside the Spring Application by Using Annotations









# **Practice**

 Manage the employees and departments of an organization







### PRACTICE

# **Practice: Manage the Employees and Departments of an Organization**

A start-up builds an application that keeps records of all employees. As an initial step, the employees and their departments must be mapped in the application.

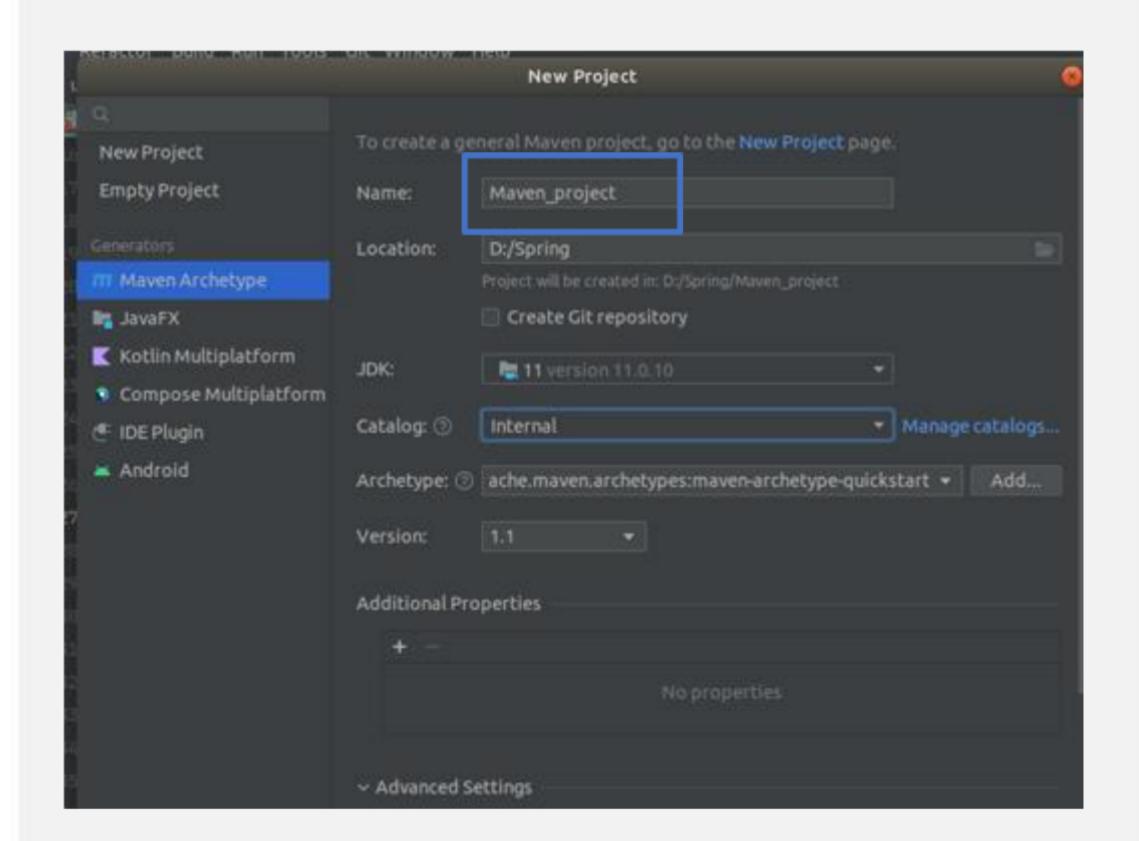
Build a Spring application that will manage the employee and department objects.





### **Implementation Environment**

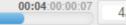
- Install the community edition of IntelliJ on your machine
- Click <u>here</u> to install
- After installation, open the IntelliJ IDE
- Click on File -> New Project
- Select the Maven Archetype
- Provide the name of the project and select the location
- Select the Archetype as mavenarchetype-quickstart
- Provide groupId and artifactId in Advanced settings
- Click on Create











# **Practice: Tasks**

- 1. Add the Spring context dependency to the pom.xml file.
- 2. Create Employee and Department as domain classes.
- 3. Employees will have the following attributes: employeeId, employeeName, employeeDOB, and department.
- 4. Departments will have the following attributes: deptId and deptName.
- 5. The employee belongs to a department; build the association in the Employee class.
- 6. Manage the objects of the Employee and Department classes in the Spring.
- 7. Autowire the department object inside the employee class using property injection.
- 8. Create a configuration class to define the beans.
- 9. Define an implementation class that will use the ApplicationContext object to get the values of the beans defined.
- 10. Display the details of the Employee.





# **Submission Instructions**

- There is no boilerplate for the practice.
- Create a Git repository named **BEJ\_C1\_S3\_Spring\_IOC\_PC\_1**.
- 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.