Maven - Springboot PipelineSample

Prerequisite

- JDK 1.7+
- Maven 3+

Stack

- Java
- Spring Boot

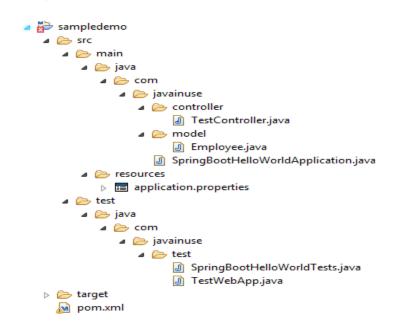
Projects

Create the below services (projects) in maven

1. Sampledemo

2. Pipeline Sample

Project Structure



Pom.xml

```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0"
http://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>com.springboot
 <artifactId>sampledemo</artifactId>
  <version>1.0</version>
 <packaging>war</packaging>
     <parent>
           <groupId>org.springframework.boot
           <artifactId>spring-boot-starter-parent</artifactId>
           <version>1.4.1.RELEASE
           <relativePath /> <!-- lookup parent from repository -->
     </parent>
     cproperties>
           project.reporting.outputEncoding>UTF-
8</project.reporting.outputEncoding>
           <java.version>1.8</java.version>
     </properties>
     <dependencies>
           <dependency>
                 <groupId>org.springframework.boot
                 <artifactId>spring-boot-starter-web</artifactId>
           </dependency>
<!-- dependency for unit test-- >
           <dependency>
                 <groupId>org.springframework.boot
                 <artifactId>spring-boot-starter-test</artifactId>
                 <scope>test</scope>
           </dependency>
     </dependencies>
     <build>
    <plugins>
     <!-- Plugin for unit report generation-- >
                 <plugin>
                       <groupId>org.springframework.boot</groupId>
                       <artifactId>spring-boot-maven-plugin</artifactId>
                 </plugin>
                 <plugin>
         <groupId>org.apache.maven.plugins
         <artifactId>maven-surefire-plugin</artifactId>
        <version>2.19.1
       </plugin>
```

```
<!-- Plugin for Code Coverage (cobertura )report generation-->
      <plugin>
           <groupId>org.codehaus.mojo</groupId>
           <artifactId>cobertura-maven-plugin</artifactId>
           <version>2.5.1
           <configuration>
               <formats>
                   <format>html</format>
                   <format>xml</format>
                </formats>
           </configuration>
       </plugin>
      </plugins>
      </build>
             <reporting>
             <plugins>
             <plugin>
             <groupId>org.apache.maven.plugins
             <artifactId>maven-project-info-reports-plugin</artifactId>
             <version>2.7</version>
             <configuration>
<dependencyLocationsEnabled>false</dependencyLocationsEnabled>
             </configuration>
      </plugin>
             </plugins>
             </reporting>
</project>
```

TestController.java

Path → src/main/java/com/javainuse/controller/ TestController.java

```
package com.javainuse.controller;
```

import org.springframework.web.bind.annotation.RequestMapping; import org.springframework.web.bind.annotation.RequestMethod; import org.springframework.web.bind.annotation.RestController;

import com.javainuse.model.Employee;

@RestController

```
public class TestController {
    @RequestMapping(value = "/employee", method = RequestMethod.GET)
    public Employee firstPage() {
        Employee emp = new Employee();
        emp.setName("emp1");
        emp.setDesignation("manager");
        emp.setEmpId("1");
        emp.setSalary(3000);
        return emp;
    }
}
```

Employee.java

Path → src/main/java/com/javainuse/model/ Employee.java

```
package com.javainuse.model;
public class Employee {
      private String empId;
      private String name;
      private String designation;
      private double salary;
      public Employee() {
      public String getName() {
             return name;
      public void setName(String name) {
             this.name = name;
      }
      public String getDesignation() {
             return designation;
      public void setDesignation(String designation) {
             this.designation = designation;
      public double getSalary() {
             return salary;
```

```
public void setSalary(double salary) {
        this.salary = salary;
}

public String getEmpId() {
        return empId;
}

public void setEmpId(String empId) {
        this.empId = empId;
}
```

SpringBootHelloWorldApplication.java

```
Path → src/main/java/com/javainuse/ SpringBootHelloWorldApplication.java
```

application.properties

Path → src/main/resources/application.properties

server.port = 8666

SpringBootHelloWorldTests.java

Path → src/test/java/com/javainuse/test/ SpringBootHelloWorldTests.java

```
package com.javainuse.test;
```

```
import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.test.context.junit4.SpringRunner;

@RunWith(SpringRunner.class)
@SpringBootTest
public class SpringBootHelloWorldTests {

    @Test
    public void contextLoads() {
    }
}
```

TestWebApp.java

Path → src/test/java/com/javainuse/test/ TestWebApp.java

```
package com.javainuse.test;
import static org.springframework.test.web.servlet.request.MockMvcRequestBuilders.get;
import static
org.springframework.test.web.servlet.result.MockMvcResultMatchers.content;
import static
org.springframework.test.web.servlet.result.MockMvcResultMatchers.jsonPath;
import static org.springframework.test.web.servlet.result.MockMvcResultMatchers.status;
import org.junit.Before;
import org.junit.Test;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.test.web.servlet.MockMvc;
import org.springframework.test.web.servlet.setup.MockMvcBuilders;
import org.springframework.web.context.WebApplicationContext;
public class TestWebApp extends SpringBootHelloWorldTests {
      @Autowired
      private WebApplicationContext webApplicationContext;
      private MockMvc mockMvc;
      @Before
      public void setup() {
             mockMvc =
MockMvcBuilders.webAppContextSetup(webApplicationContext).build();
      }
      public void testEmployee() throws Exception {
             mockMvc.perform(get("/employee")).andExpect(status().isOk())
```