

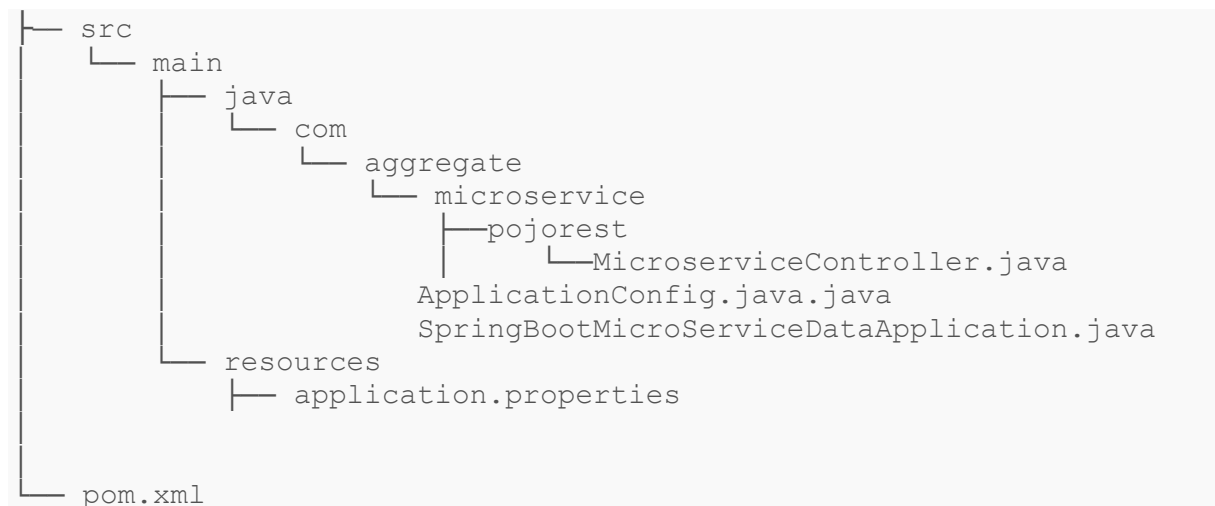
SpringBoot-Aggregate DP Sample

Prerequisites

We must have installed the following

- JDK 1.7 or later
- Maven 3 or later

Project Structure



Project dependencies

Pom.xml
<pre><project xmlns="http://maven.apache.org/POM/4.0.0" 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.aggregate.sbmdbd</groupId> <artifactId>microservicesample</artifactId> <version>0.0.1-SNAPSHOT</version> <name>SpringBootJPASpringData</name> <description>SpringBootJPASpringData project for Spring Boot with Spring Data JPA implementation</description> <parent> <groupId>org.springframework.boot</groupId> <artifactId>spring-boot-starter-parent</artifactId> <version>1.4.0.RELEASE</version> <relativePath/> <!-- lookup parent from repository --> </parent> <properties></pre>

```

        <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
        <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
        <java.version>1.8</java.version>
    </properties>

    <dependencies>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-web</artifactId>
        </dependency>

        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-test</artifactId>
            <scope>test</scope>
        </dependency>
    </dependencies>

    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>
</project>

```

Application Configuration

SpringBootMicroServiceDataApplication.java

Path → src/main/java/com/aggregate/microservice/SpringBootMicroServiceDataApplication.java

```
package com.aggregate.microservice;
```

```
import org.springframework.boot.SpringApplication;
```

```
import org.springframework.boot.autoconfigure.SpringBootApplication;
```

```
@SpringBootApplication
```

```
public class SpringBootMicroServiceDataApplication {
```

```
    public static void main(String[] args) {
```

```
        SpringApplication.run(SpringBootMicroServiceDataApplication.class, args);
```

```
    }
```

```
}
```

ApplicationConfig.java

Path → src/main/java/com/aggregate/microservice/ApplicationConfig.java

```
package com.aggregate.microservice;
```

```

import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import org.springframework.web.client.RestTemplate;

@Configuration
public class ApplicationConfig {

    @Bean
    public RestTemplate restTemplate() {
        RestTemplate restTemplate = new RestTemplate();
        return restTemplate;
    }

}

```

Controller File

MicroserviceController.java

Path → src/main/java/com/aggregate/microservice /pojorest /MicroserviceController.java

```

package com.aggregate.microservice.pojorest;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

import javax.validation.Valid;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.web.client.RestTemplate;

@RestController
@RequestMapping("/microservice")
public class MicroserviceController {

    @Autowired
    private RestTemplate restTemplate;

    @RequestMapping("/ReadAll")
    public Iterable<Object> readAllMongoDB() {

        List<Object> mongodb=new ArrayList<Object>();
        List<Object> mySQL=new ArrayList<Object>();
        List<Object> merge=new ArrayList<Object>();
    }
}

```

```

        try{
            mongodb =
Arrays.asList(restTemplate.getForObject("http://localhost:8083/booking/read-all",
Object[].class));
            mySQL =
Arrays.asList(restTemplate.getForObject("http://localhost:8082/booking/readAll", Object[].class));
            merge = new ArrayList<Object>(mongodb);
            merge.addAll(mySQL);
        }catch(Exception e){
            System.out.println("Connection Exception"+e.getMessage());
        }
        return merge;
    }
}

```

Application.properties

application.properties
Path → src/main/resources/application.properties
server.port = 8084

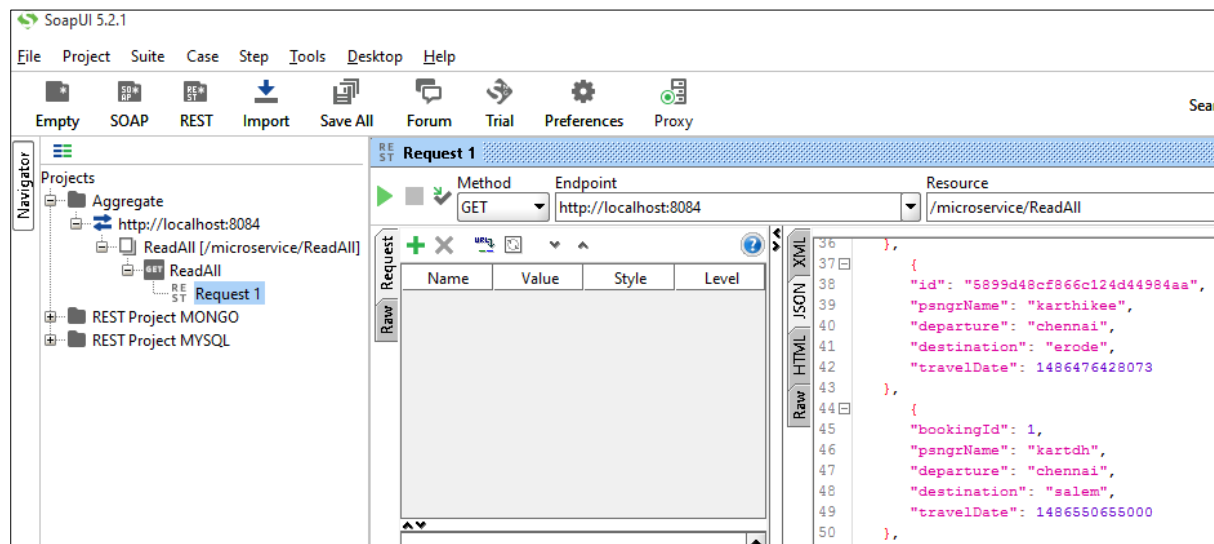
Steps to Test the Application

D:\Karthik-ws\code\SpringBoot-SpringDataJPA-Mysql > mvn spring-boot:run

Once the server has been started. Enter the below url in the SOAPUI and select POST method.

View All

<http://localhost:8084/microservice/ReadAll>



Browser

<http://localhost:8084/microservice/ReadAll>



