



BridgeLabz

Employability Delivered

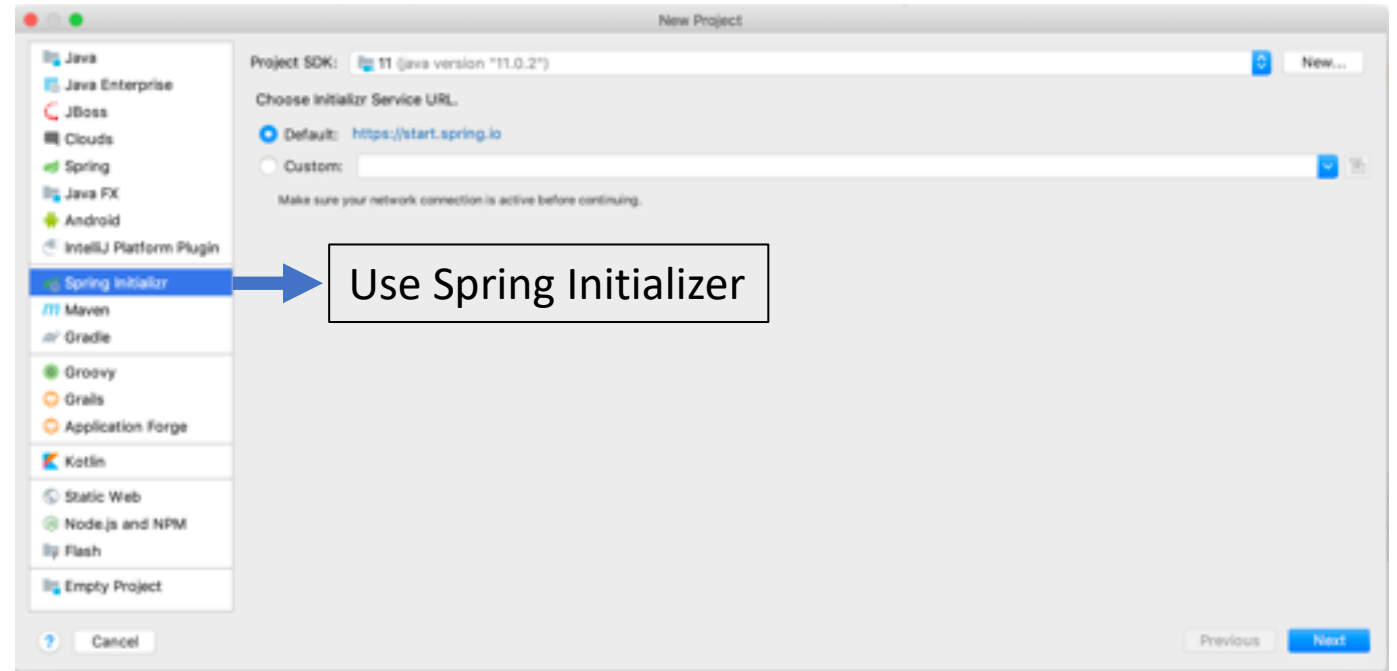
Spring App
Development

Agenda

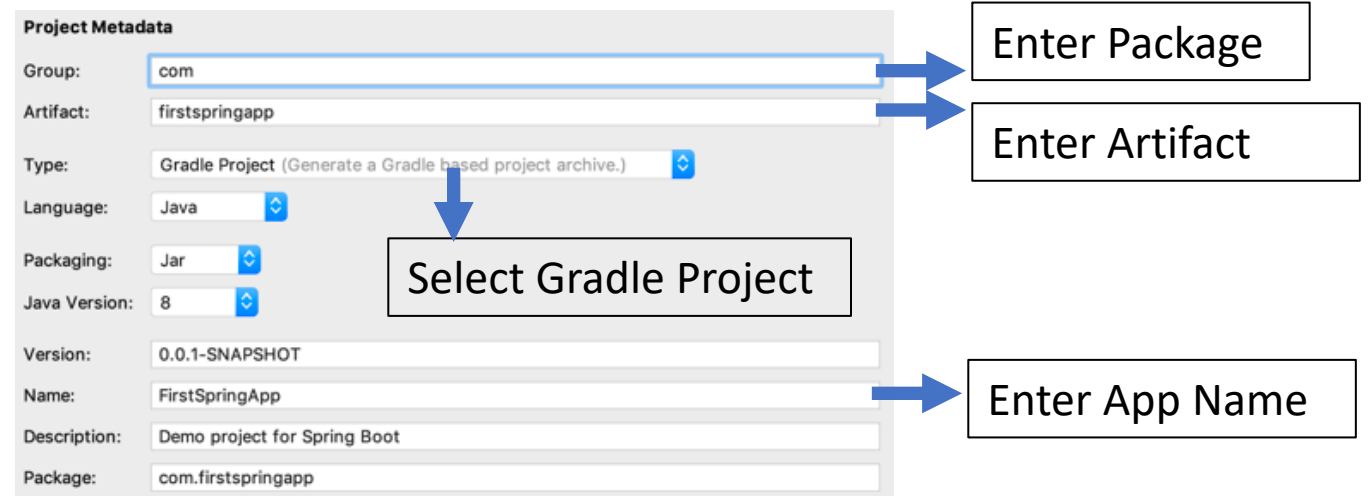
- Firstly we will start quickly with developing a simple Spring App. In this app we will do the following. User curl for all
 - Say simple Hello World
 - Say Hello with Name as Query Parameter
 - Say Hello with Name in Path Variable
 - Say Hello with Name in the Body
- Develop EmployeeApp where we use Hibernate and H2 Database

Create First Spring App

- **Step 1: Create a New Project**



- **Step 2: Enter Project Data – Group and Artifact**



Step 3: Select Spring Dependencies



Dependencies

Developer Tools

Web

Template Engines

Security

SQL

NoSQL

Messaging

IO

Ops

Testing

Spring Cloud

Spring Cloud Security

Spring Cloud Tools

Spring Cloud Config

Spring Cloud Discovery

Spring Cloud Routing

Spring Cloud Circuit Breaker

Spring Cloud Tracing

Spring Cloud Messaging

Pivotal Cloud Foundry

Amazon Web Services

Spring Boot 2.2.2

☒ Spring Web

☐ Spring Reactive Web

☐ Rest Repositories

☐ Spring Session

☐ Rest Repositories HAL Browser

☐ Spring HATEOAS

☐ Spring Web Services

☐ Jersey

☐ Vaadin

Spring Web

Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

Building a RESTful Web Service

Serving Web Content with Spring MVC

Building REST services with Spring

Reference doc

Selected Dependencies

Web

Spring Web

?

Cancel

Previous

Next

Step 4: Set Project Name

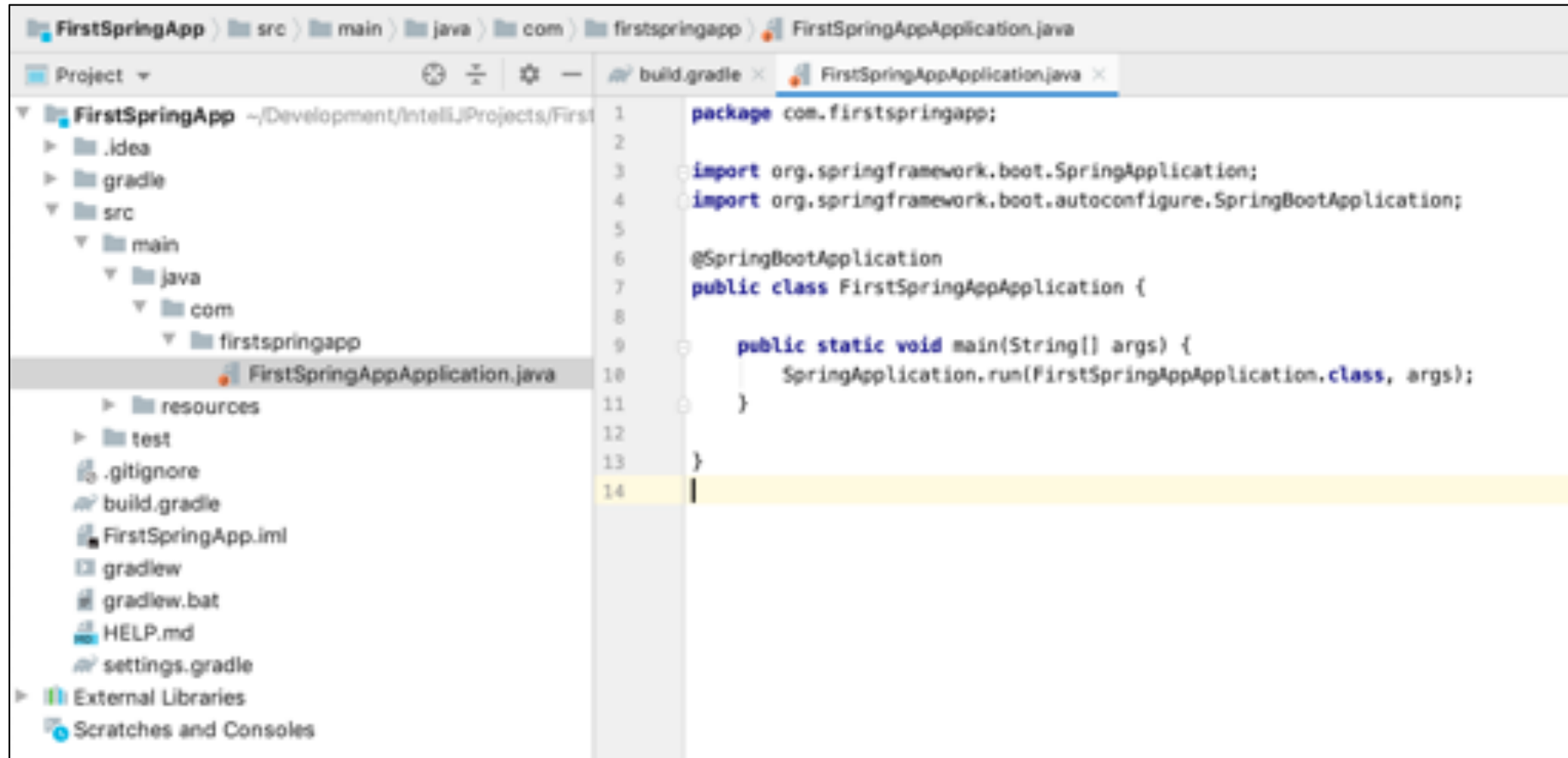
Project name:

FirstSpringApp

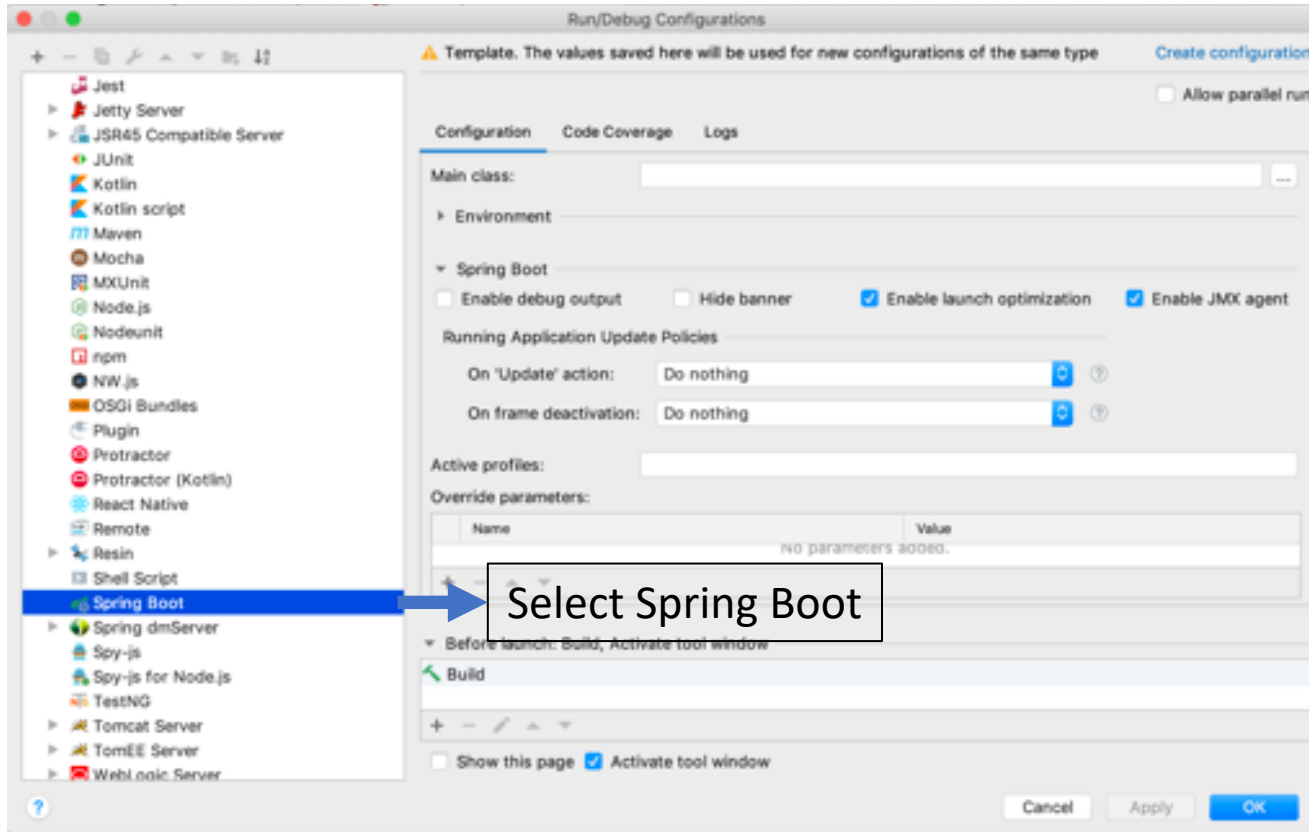
Project location:

~/Development/IntelliJProjects/FirstSpringApp

Step 5: Creates FirstSpringApplication

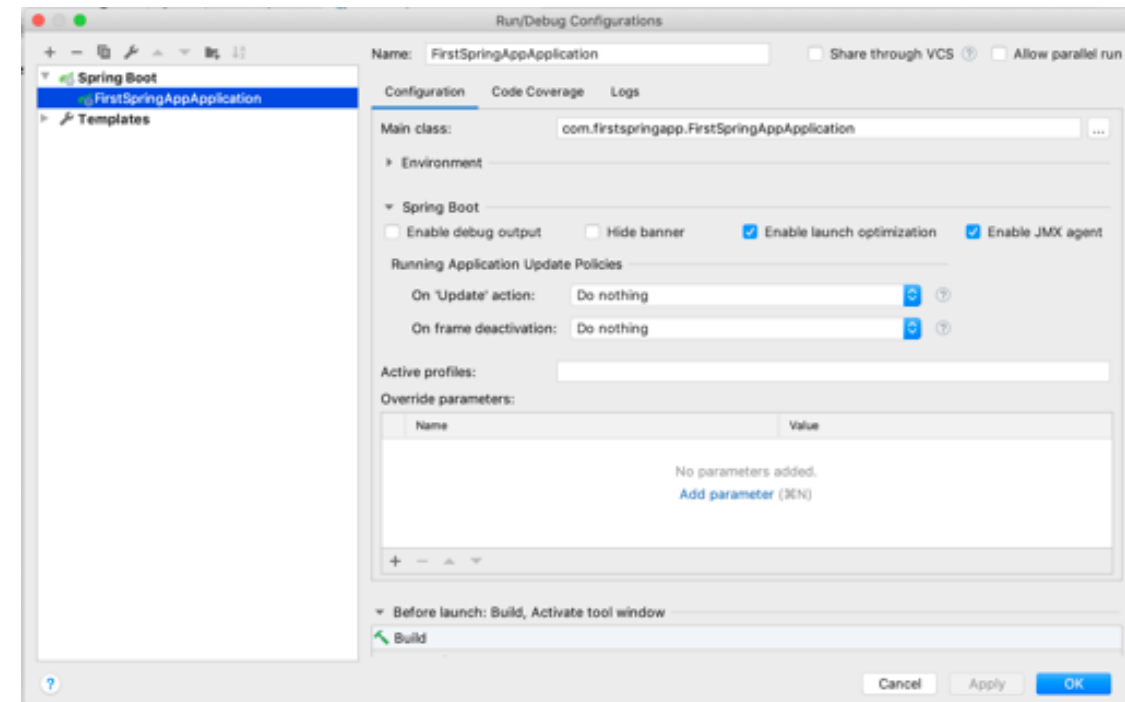


Step 6: Setup Spring Boot Configuration



Create New Configuration

Step 7: Create Configuration – Auto Created



Step 8: Run the application and click

<http://localhost:8080/>

Step 9: Creates HelloWorldController

```
@RestController
@RequestMapping("/hello")
public class HelloWorldController {

    @RequestMapping(value = {"", "/", "/home"})
    public String sayHello() {
        return "Hello World!!!";
    }

    @RequestMapping(value = {"/query"}, method = RequestMethod.GET)
    public String sayHello(@RequestParam(value = "name") String name) {
        return "Hello " + name + "!";
    }

    @GetMapping("/param/{name}")
    public String sayHelloParam(@PathVariable String name) {
        return "Hello " + name + "!";
    }

    @PostMapping("/post")
    public String sayHello(@RequestBody User user) {
        return "Hello " + user.getFirstName() + " " + user.getLastName() + "!";
    }

    @PutMapping("/put/{firstName}")
    public String sayHello(@PathVariable String firstName, @RequestParam(value = "lastName") String lastName) {
        return "Hello " + firstName + " " + lastName + "!";
    }
}
```

Step 10: Creates User Model

```
package com.example.demo.model;

public class User {
    private String firstName;
    private String lastName;

    public String getFirstName() {
        return firstName;
    }

    public void setFirstName(String firstName) {
        this.firstName = firstName;
    }

    public String getLastName() {
        return lastName;
    }

    public void setLastName(String lastName) {
        this.lastName = lastName;
    }
}
```




UC 1

Create Spring App for
Hello Messages using
different HTTP Methods.
Test using curl

GreetingController

```
@RestController
public class GreetingController {
    private static final String template = "Hello, %s!";
    private final AtomicLong counter = new AtomicLong();

    @GetMapping("/greeting")
    public Greeting greeting(@RequestParam(value="name", defaultValue="World") String name) {
        return new Greeting(counter.incrementAndGet(),
            String.format(template, name));
    }
}
```



UC 2

Using
GreetingController
return JSON for different
HTTP Methods. Test
using curl



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Thank
You