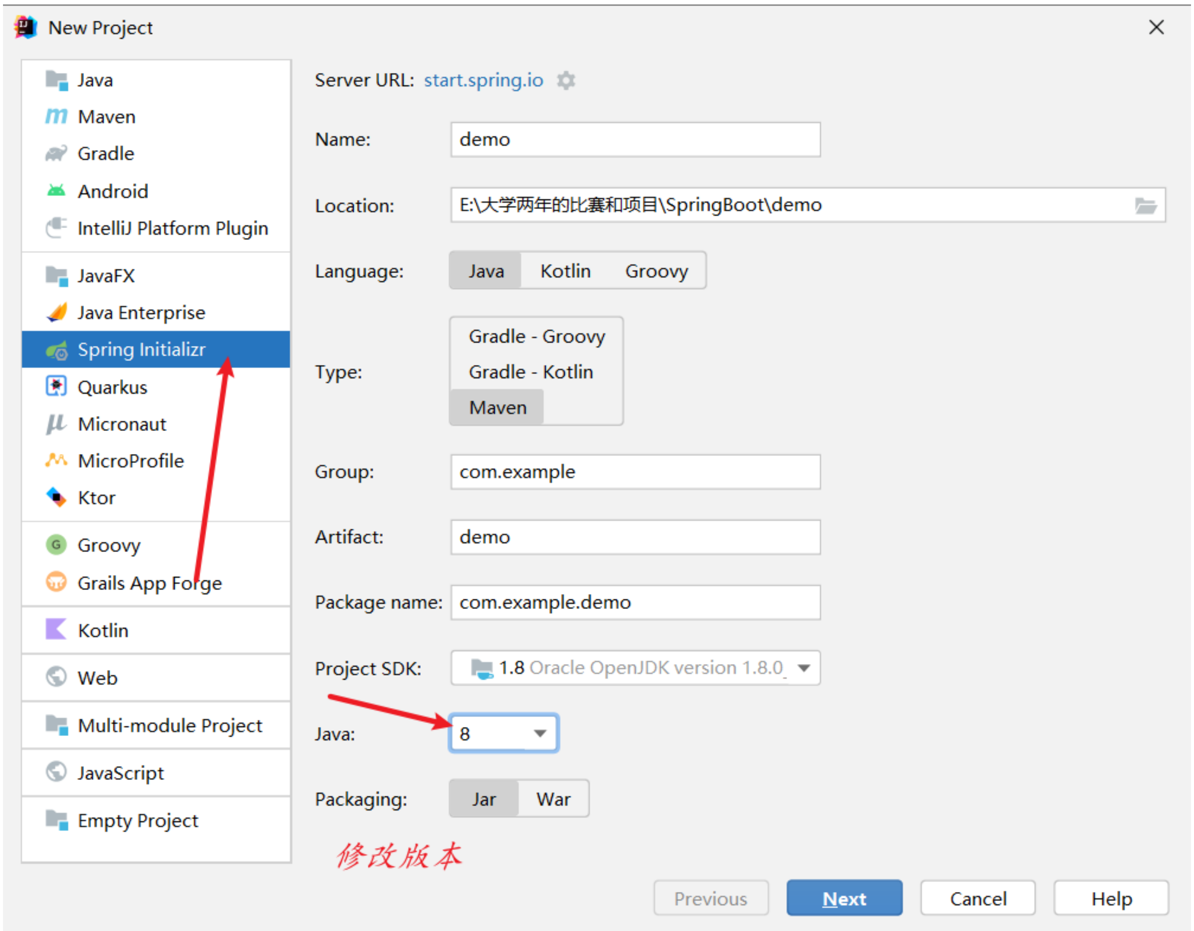
SpringBoot

创建一个全新Boot工程

1 选择Spring Initializr项目



New Project

Server URL: start.spring.io

Name: demo

Location: E:\大学两年的比赛和项目\SpringBoot\demo

Language: Java Kotlin Groovy

Type: Gradle - Groovy / Gradle - Kotlin / Maven

Group: com.example

Artifact: demo

Package name: com.example.demo

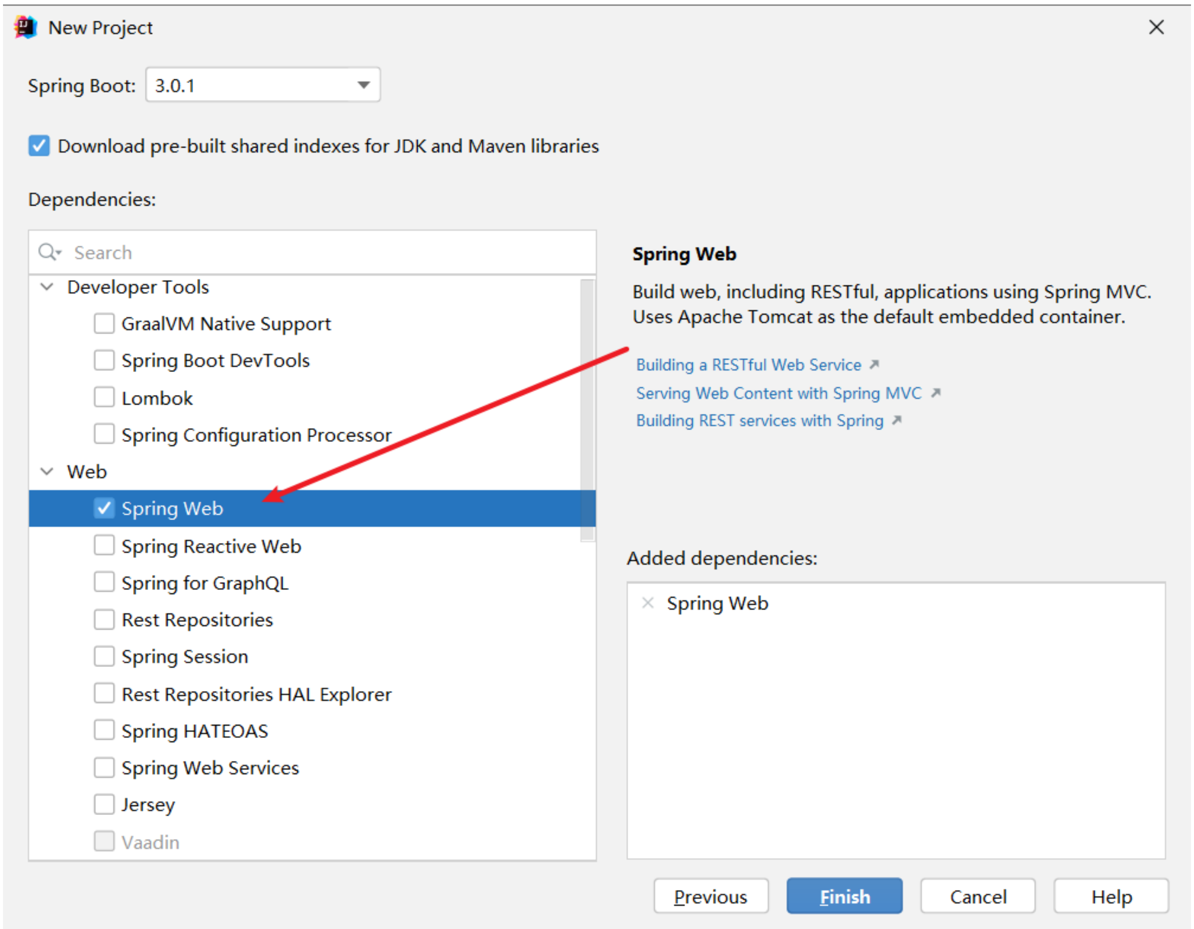
Project SDK: 1.8 Oracle OpenJDK version 1.8.0_

Java: 8

Packaging: Jar War

修改版本

2 选择Spring Web框架



New Project

Spring Boot: 3.0.1

☑ Download pre-built shared indexes for JDK and Maven libraries

Dependencies:

- Developer Tools
  - □ GraalVM Native Support
  - □ Spring Boot DevTools
  - □ Lombok
  - □ Spring Configuration Processor
- Web
  - ☑ Spring Web
  - □ Spring Reactive Web
  - □ Spring for GraphQL
  - □ Rest Repositories
  - □ Spring Session
  - □ Rest Repositories HAL Explorer
  - □ Spring HATEOAS
  - □ Spring Web Services
  - □ Jersey
  - □ Vaadin

Spring Web

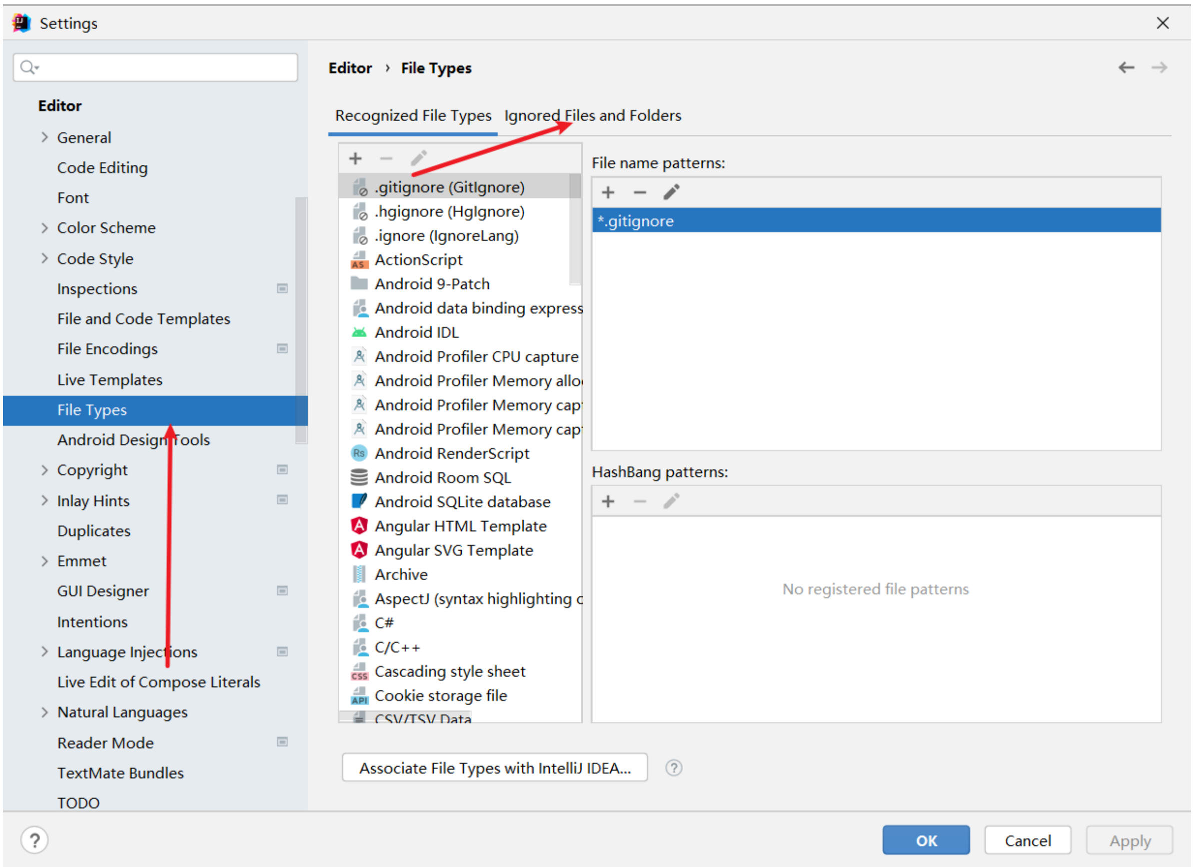
Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

Building a RESTful Web Service ↗
Serving Web Content with Spring MVC ↗
Building REST services with Spring ↗

Added dependencies:

× Spring Web

隐藏文件



Settings

Editor › File Types

Recognized File Types | Ignored Files and Folders

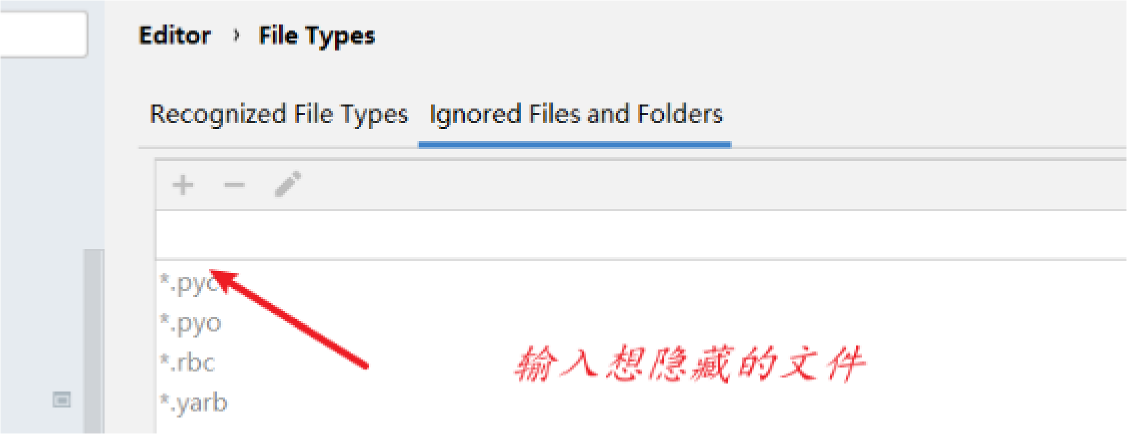
- .gitignore (GitIgnore)
- .hgignore (HgIgnore)
- .ignore (IgnoreLang)
- ActionScript
- Android 9-Patch
- Android data binding express
- Android IDL
- Android Profiler CPU capture
- Android Profiler Memory allo
- Android Profiler Memory cap
- Android Profiler Memory cap
- Android RenderScript
- Android Room SQL
- Android SQLite database
- Angular HTML Template
- Angular SVG Template
- Archive
- AspectJ (syntax highlighting c
- C#
- C/C++
- Cascading style sheet
- Cookie storage file
- CSV/TSV Data

File name patterns:

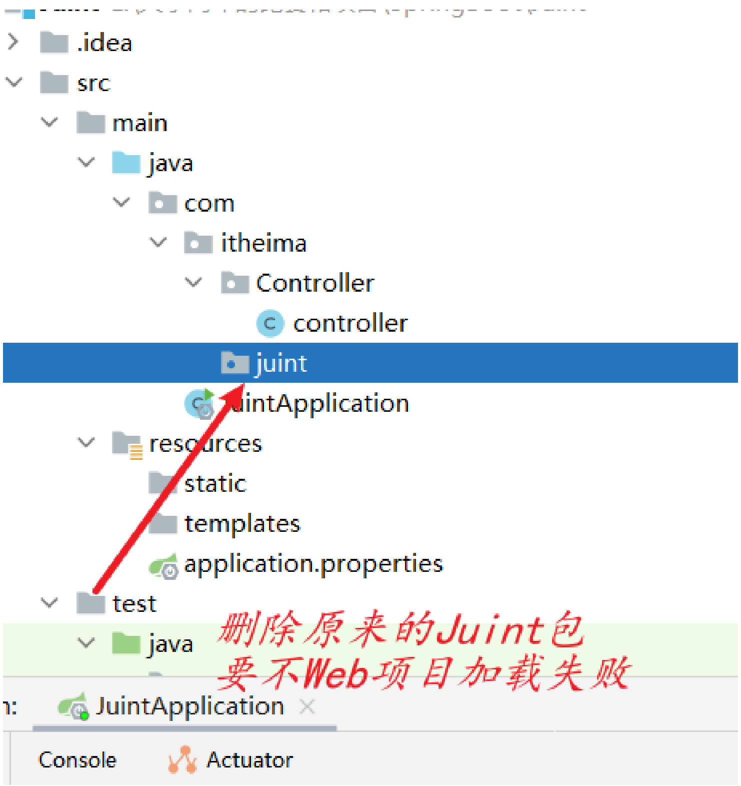
*.gitignore

HashBang patterns:

No registered file patterns



输入想隐藏的文件



删除原来的Juint包
要不Web项目加载失败

```
    <parent>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-parent</artifactId>
        // 修改版本
        <version>2.7.3</version>
        <relativePath/> <!-- lookup parent from repository -->
    </parent>
    <properties>
        <java.version>8</java.version>
    </properties>
```

SpringBoot程序优点

- 起步依赖（简化依赖设置）
- 自动配置（简化常用工程配置）
- 辅助功能（内置服务器,....）

Parent

```xml
<parent>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-parent</artifactId>
        <version>2.7.3</version>
        <relativePath/> <!-- lookup parent from repository -->
</parent>
```

使用parent进行统一管理配置这个版本信息

使用进行共同管理

Starter

starter技术使管理依赖变得简单，将依赖集中管理，减少依赖配置

引导类

SpringBoot自动生成一个引导类，生成一个容器，加载容器

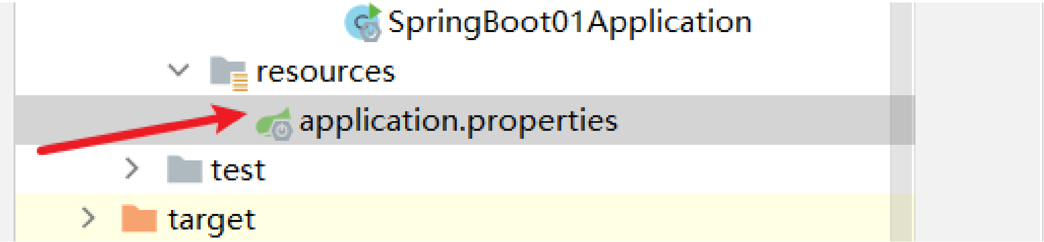
```java
@SpringBootApplication
public class SpringBoot01Application {

    public static void main(String[] args) {

        SpringApplication.run(SpringBoot01Application.class, args);

        ctx.getBean();
    }
}
```

可以获取同层目录下的Bean

基本配置

属性配置

简单配置服务器端口



```properties
#服务器端口
server.port=80
```

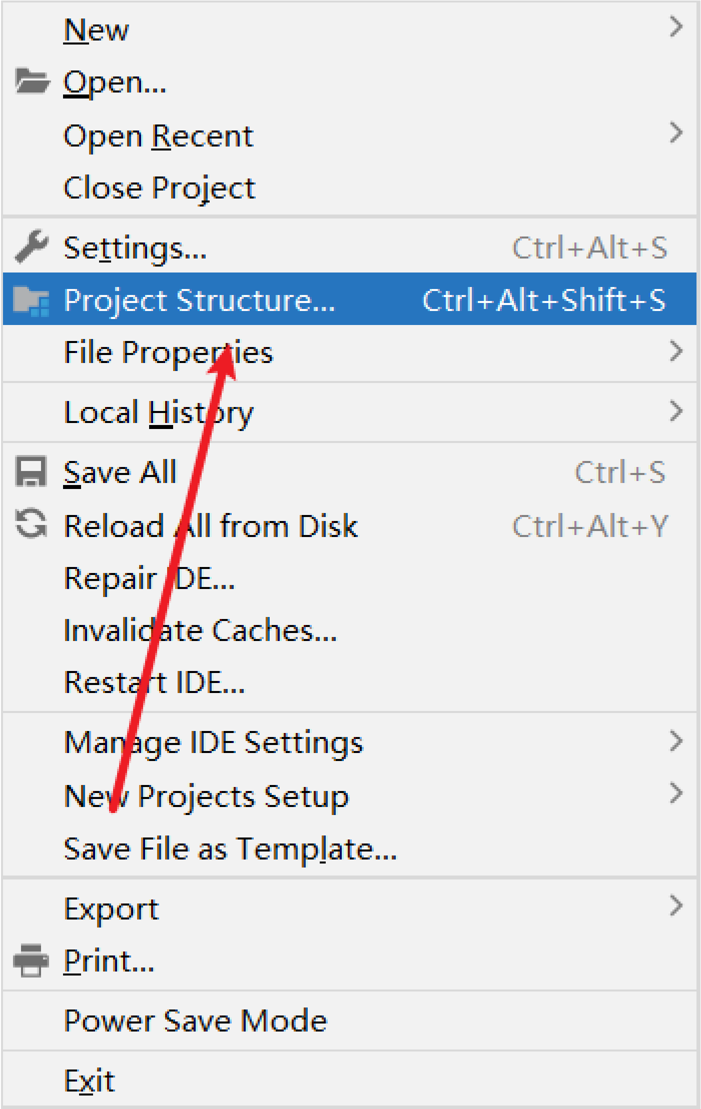
基础配备

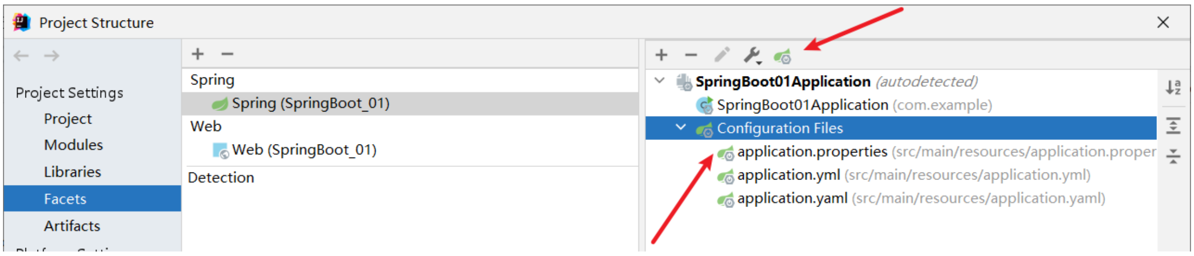
可以控制文本，图像显示，控制console打印信息的输出

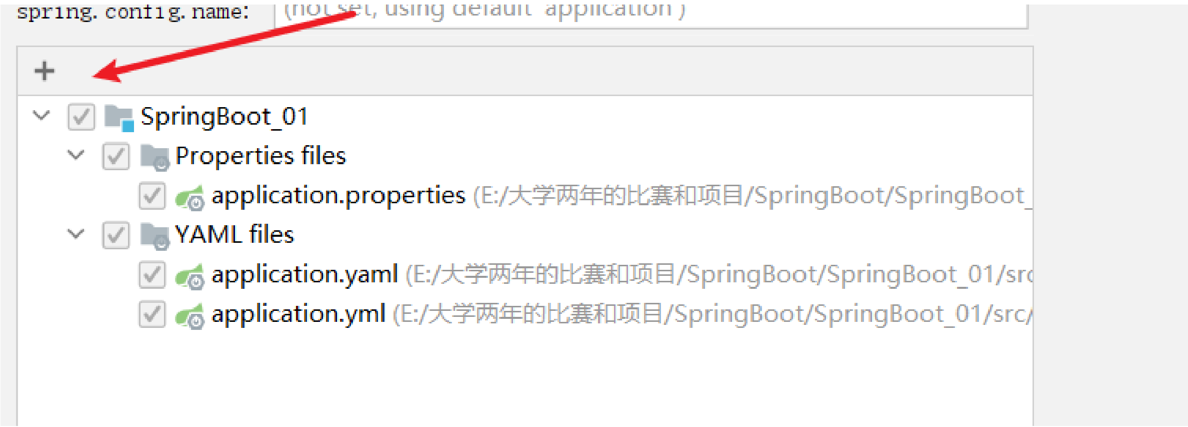
SpringBoot配置格式

- properties
- yml
- yaml

将ymal文件加入




Project Structure
Project Settings
Project
Modules
Libraries
Facets
Artifacts
Spring
Spring (SpringBoot_01)
Web
Web (SpringBoot_01)
Detection
SpringBoot01Application (autodetected)
SpringBoot01Application (com.example)
Configuration Files
application.properties (src/main/resources/application.proper
application.yml (src/main/resources/application.yml)
application.yaml (src/main/resources/application.yaml)



spring.config.name: (not set, using default 'application')

+

☑ SpringBoot_01

☑ Properties files

☑ application.properties (E:/大学两年的比赛和项目/SpringBoot/SpringBoot_

☑ YAML files

☑ application.yaml (E:/大学两年的比赛和项目/SpringBoot/SpringBoot_01/src

☑ application.yml (E:/大学两年的比赛和项目/SpringBoot/SpringBoot_01/src/

读取yaml文件

```
name:
  张三

likes:
  - rap
  - jump
  - sleep
```

```
package com.example.controller;

import org.springframework.beans.factory.annotation.Value;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

/**
 * @ClassName BookController
 * @Description TODO
 * @Author Typecoh
 * @Date 2022/9/4 23:09
 * @Version 1.0
 */

@RestController
@RequestMapping("/Books")

public class BookController {

    @Value("${name}")
    private String name;
    @Value("${likes[0]}")
    private String habby1;

    @GetMapping("/{id}")
    public String getById(@PathVariable int id){

        System.out.println("id == >" + id);

        System.out.println("name==>" + name);
        System.out.println("habby1==>" + habby1);
        return "get is running...";
    }
}
```

在ymal使用中间变量传递

```
dir: c://win

dirfile: ${dir}//test
```

```
@Autowired
private Environment environment;

// 自动将数据全部封装在 Environment
//使用getProperty获取value
System.out.println(environment.getProperty("dir"));
```

创建MyDataSource

```
package com.example;

import org.springframework.boot.context.properties.ConfigurationProperties;
import org.springframework.context.annotation.ComponentScan;
import org.springframework.context.annotation.Configuration;
import org.springframework.stereotype.Component;

/**
 * @ClassName MyDataSource
 * @Description TODO
 * @Author Typecoh
 * @Date 2023/1/4 20:50
 * @Version 1.0
 */

//定义成一个Bean
@Component
//指定数据加载
@ConfigurationProperties("datasource")
// 封装yaml文件数据
public class MyDataSource {

    private String driver;
    private String username;
    private String password;
    private String url;

    @Override
    public String toString() {
        return "MyDataSource{" +
                "driver='" + driver + '\'' +
                ", username='" + username + '\'' +
                ", password='" + password + '\'' +
                ", url='" + url + '\'' +
                '}';
    }
```

```java
    public String getDriver() {
        return driver;
    }

    public void setDriver(String driver) {
        this.driver = driver;
    }

    public String getUsername() {
        return username;
    }

    public void setUsername(String username) {
        this.username = username;
    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }

    public String getUrl() {
        return url;
    }

    public void setUrl(String url) {
        this.url = url;
    }
}
```

```yaml
datasource:
  username: Typecoh
  password: 123456
  url: jdbc:mysql://localhost:3306//Books
  driver: com.mysql.jdbc.Driver
```

SpringBoot整合第三方技术

整合Juint

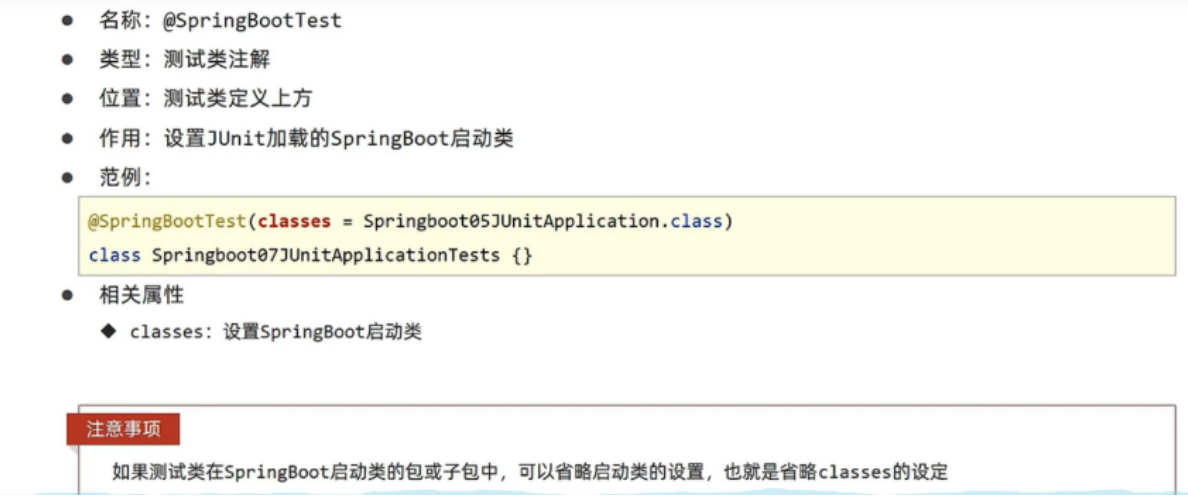
1 导入测试对应的starter

Maven自动装配好了

2 测试类使用@SpringBootTest修饰

3 使用自动装配的形式添加要测试的对象

```java
package com.itheima.juint;

import com.itheima.dao.BookDao;
import org.junit.jupiter.api.Test;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;

@SpringBootTest
class JuintApplicationTests {

    // 自动装配 创建的 BookDaoImpl对象装配到BookDao中
    @Autowired
    private BookDao bookDao;

    @Test
    void contextLoads() {

        System.out.println(bookDao);
        bookDao.save();
    }
}
```



- 名称：@SpringBootTest
- 类型：测试类注解
- 位置：测试类定义上方
- 作用：设置JUnit加载的SpringBoot启动类
- 范例：

```java
@SpringBootTest(classes = Springboot05JUnitApplication.class)
class Springboot07JUnitApplicationTests {}
```

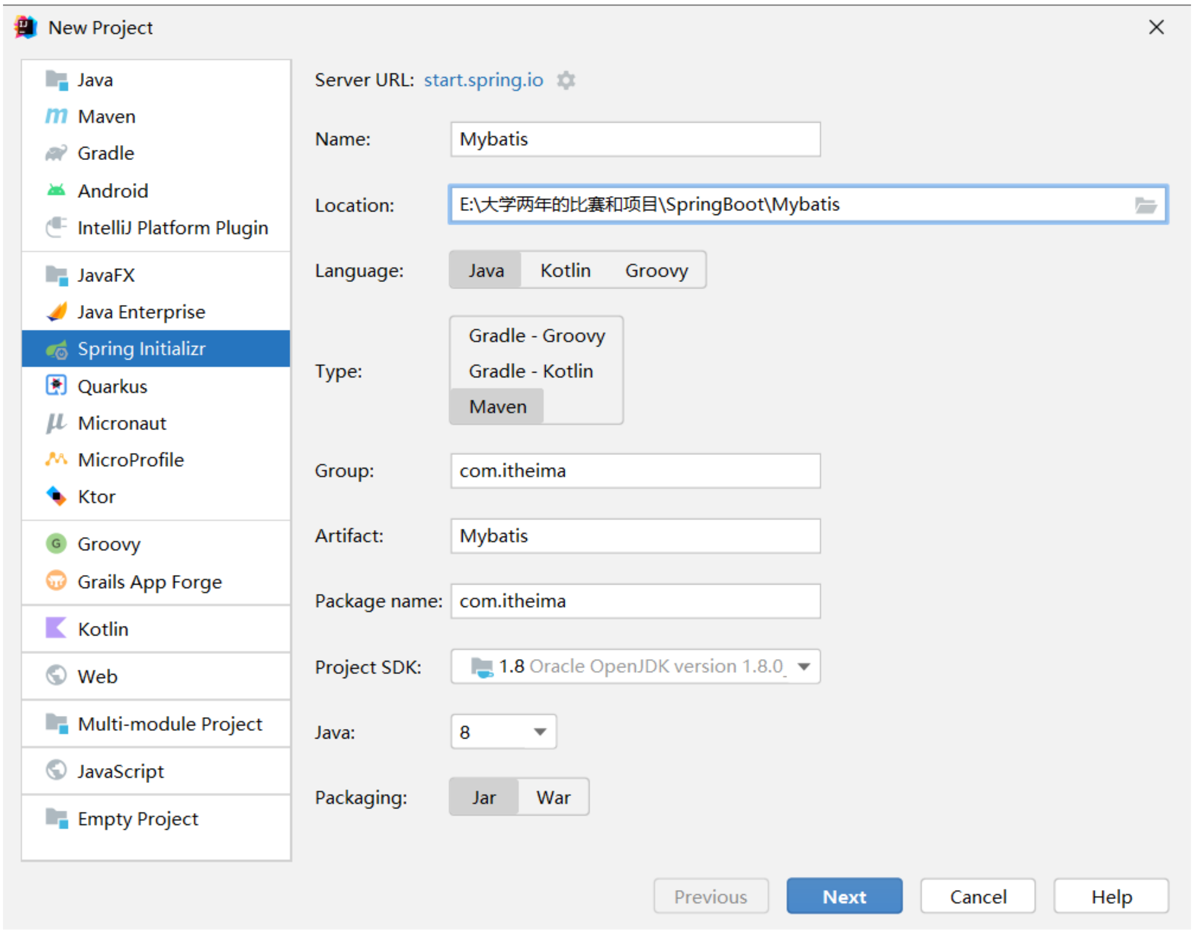
- 相关属性
  - ◆ classes：设置SpringBoot启动类

注意事项

如果测试类在SpringBoot启动类的包或子包中，可以省略启动类的设置，也就是省略classes的设定

整合Mybatis

创建一个新工程



New Project

Server URL: start.spring.io

Name: Mybatis

Location: E:\大学两年的比赛和项目\SpringBoot\Mybatis

Language: Java

Type: Maven

Group: com.itheima

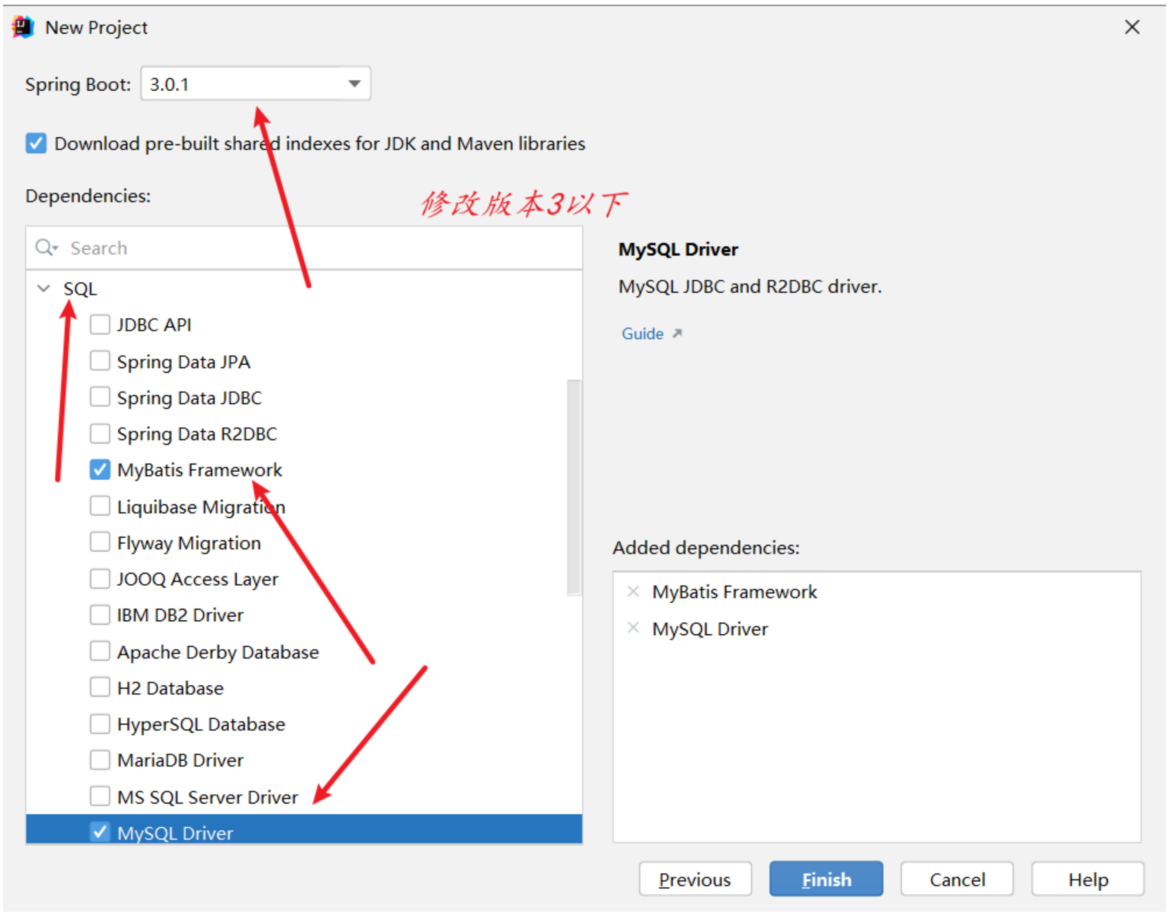
Artifact: Mybatis

Package name: com.itheima

Project SDK: 1.8 Oracle OpenJDK version 1.8.0

Java: 8

Packaging: Jar



New Project

Spring Boot: 3.0.1

☑ Download pre-built shared indexes for JDK and Maven libraries

修改版本3以下

Dependencies:

SQL
- ☐ JDBC API
- ☐ Spring Data JPA
- ☐ Spring Data JDBC
- ☐ Spring Data R2DBC
- ☑ MyBatis Framework
- ☐ Liquibase Migration
- ☐ Flyway Migration
- ☐ JOOQ Access Layer
- ☐ IBM DB2 Driver
- ☐ Apache Derby Database
- ☐ H2 Database
- ☐ HyperSQL Database
- ☐ MariaDB Driver
- ☐ MS SQL Server Driver
- ☑ MySQL Driver

MySQL Driver

MySQL JDBC and R2DBC driver.

Added dependencies:
- MyBatis Framework
- MySQL Driver

创建文件

```java
package com.itheima.dao;

import com.itheima.domain.Book;
import org.apache.ibatis.annotations.Mapper;
import org.apache.ibatis.annotations.Select;

/**
 * @ClassName
 * @Description TODO
 * @Author lenovo
 * @Date 2023/1/4 22:35
 * @Version 1.0
 */
//添加Mapper注释
@Mapper
public interface BookDao {

    @Select("select * from book where id = #{id}")
    public Book GetById(Integer id);
}
```

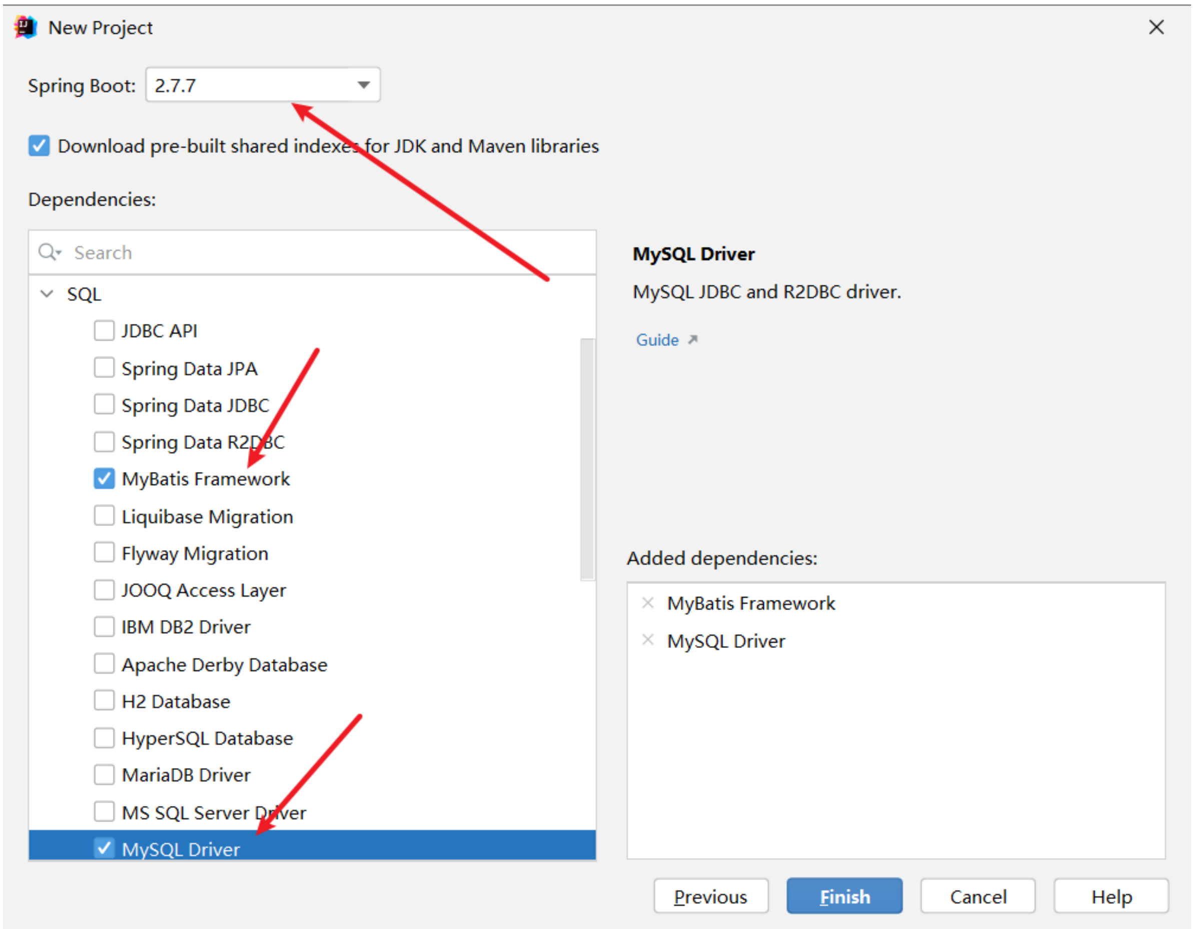
```java
package com.itheima.domain;

/**
 * @ClassName Book
 * @Description TODO
 * @Author Typecoh
 * @Date 2023/1/4 22:37
 * @Version 1.0
 */

public class Book {

    public String id;
    public String type;
    public String name;
    public String description;

    @Override
    public String toString() {
        return "Book{" +
                "id='" + id + '\'' +
                ", type='" + type + '\'' +
                ", name='" + name + '\'' +
                ", description='" + description + '\'' +
                '}';
    }

    public String getId() {
        return id;
    }

    public void setId(String id) {
        this.id = id;
    }

    public String getType() {
        return type;
    }

    public void setType(String type) {
        this.type = type;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }
}
```

```
spring:
  datasource:
    url: jdbc:mysql://localhost:3306/mybatis
    password: 123456
    username: Typecoh
    driver-class-name: com.mysql.jdbc.Driver
```

创建好了之后需要先造好datasource，否则测试报错

整合Druid

1 创建新文件



New Project

Spring Boot: 2.7.7

☑ Download pre-built shared indexes for JDK and Maven libraries

Dependencies:

SQL
- □ JDBC API
- □ Spring Data JPA
- □ Spring Data JDBC
- □ Spring Data R2DBC
- ☑ MyBatis Framework
- □ Liquibase Migration
- □ Flyway Migration
- □ JOOQ Access Layer
- □ IBM DB2 Driver
- □ Apache Derby Database
- □ H2 Database
- □ HyperSQL Database
- □ MariaDB Driver
- □ MS SQL Server Driver
- ☑ MySQL Driver

MySQL Driver

MySQL JDBC and R2DBC driver.

Added dependencies:
- MyBatis Framework
- MySQL Driver

2 导入指定的坐标

```
<dependency>
    <groupId>com.alibaba</groupId>
    <artifactId>druid-spring-boot-starter</artifactId>
    <version>1.2.3</version>
</dependency>
```

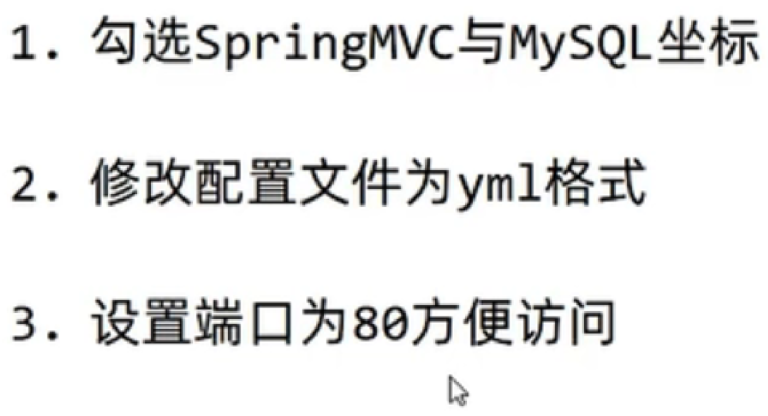
3 Druid数据配置

- 方式一

```
spring:
  datasource:
    driver-class-name: com.mysql.jdbc.Driver
    username: Typecoh
    password: 123456
    url: jdbc:mysql://localhost:3306/mybatis
    type: com.alibaba.druid.pool.DruidDataSource
```

- 方式二

```
spring:
  datasource:
    druid:
      driver-class-name: com.mysql.jdbc.Driver
      username: Typecoh
      password: 123456
      url: jdbc:mysql://localhost:3306/mybatis
```



1. 勾选SpringMVC与MySQL坐标

2. 修改配置文件为yml格式

3. 设置端口为80方便访问

配置lombok

配置版本

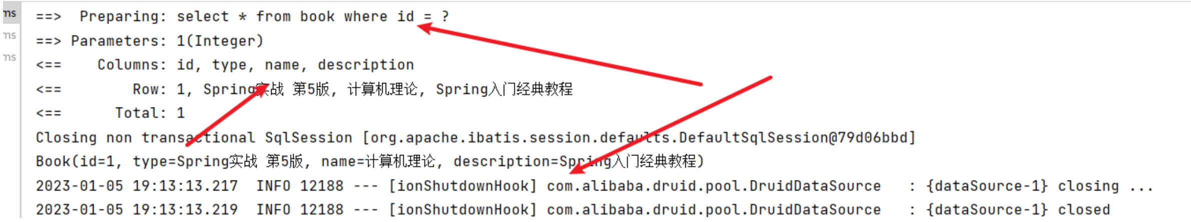
```xml
        <!--导入lombok-->
        <dependency>
            <groupId>org.projectlombok</groupId>
            <artifactId>lombok</artifactId>
        </dependency>
```

使用@Data注解

```java
//使用@Data替代 Getter Setter方法 toString方法
@Data
public class Book {

    public String id;
    public String type;
    public String name;
    public String description;
}
```

开启日志文件

```yaml
mybatis:
  configuration:
    log-impl: org.apache.ibatis.logging.stdout.StdOutImpl
```



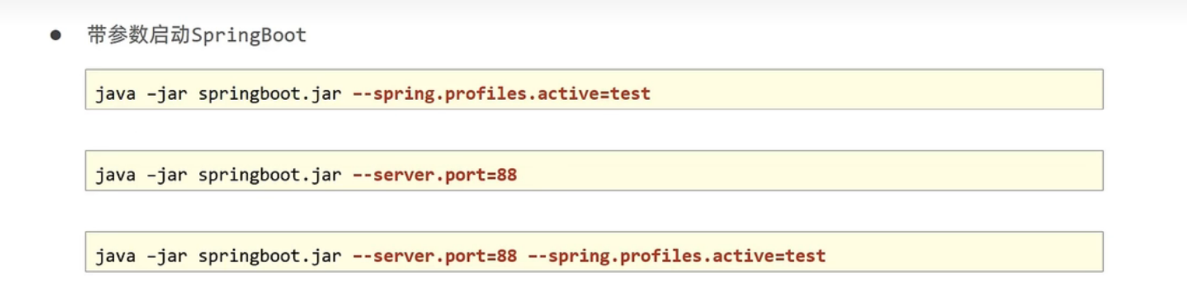
```
==>  Preparing: select * from book where id = ?
==> Parameters: 1(Integer)
<==    Columns: id, type, name, description
<==        Row: 1, Spring实战 第5版, 计算机理论, Spring入门经典教程
<==      Total: 1
Closing non transactional SqlSession [org.apache.ibatis.session.defaults.DefaultSqlSession@79d06bbd]
Book(id=1, type=Spring实战 第5版, name=计算机理论, description=Spring入门经典教程)
2023-01-05 19:13:13.217  INFO 12188 --- [ionShutdownHook] com.alibaba.druid.pool.DruidDataSource   : {dataSource-1} closing ...
2023-01-05 19:13:13.219  INFO 12188 --- [ionShutdownHook] com.alibaba.druid.pool.DruidDataSource   : {dataSource-1} closed
```

多环境开发

yaml书写格式

```
spring:
  profiles:
    active: test
---
spring:
  profiles: pro
server:
  port: 8080

---
spring:
  profiles: dev
server:
  port: 8081

---
spring:
  profiles: test
server:
  port: 8082

```

将文件打成jar包使用nmp执行



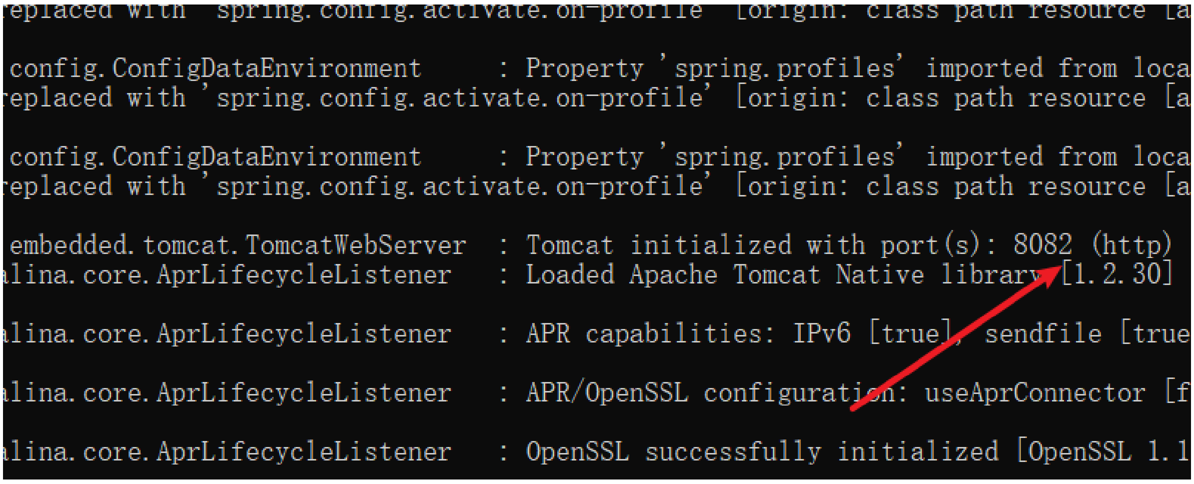
- 带参数启动SpringBoot

```
java -jar springboot.jar --spring.profiles.active=test
```

```
java -jar springboot.jar --server.port=88
```

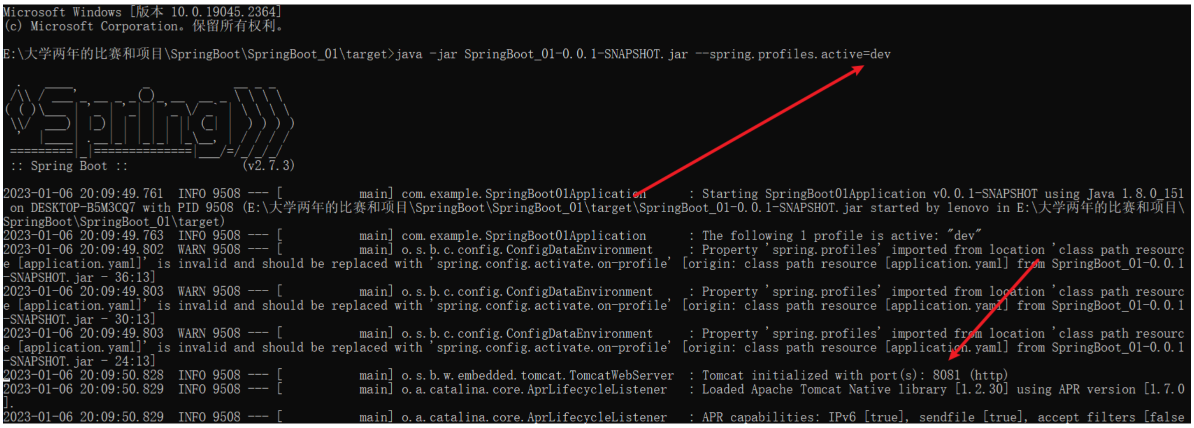
```
java -jar springboot.jar --server.port=88 --spring.profiles.active=test
```

```
java -jar SpringBoot_01-0.0.1-SNAPSHOT.jar
```



```
eplaced with 'spring.config.activate.on-profile' [origin: class path resource [a

 config.ConfigDataEnvironment      : Property 'spring.profiles' imported from loca
eplaced with 'spring.config.activate.on-profile' [origin: class path resource [a

 config.ConfigDataEnvironment      : Property 'spring.profiles' imported from loca
eplaced with 'spring.config.activate.on-profile' [origin: class path resource [a

 embedded.tomcat.TomcatWebServer   : Tomcat initialized with port(s): 8082 (http)
alina.core.AprLifecycleListener    : Loaded Apache Tomcat Native library [1.2.30]

alina.core.AprLifecycleListener    : APR capabilities: IPv6 [true], sendfile [true

alina.core.AprLifecycleListener    : APR/OpenSSL configuration: useAprConnector [f

alina.core.AprLifecycleListener    : OpenSSL successfully initialized [OpenSSL 1.1
```

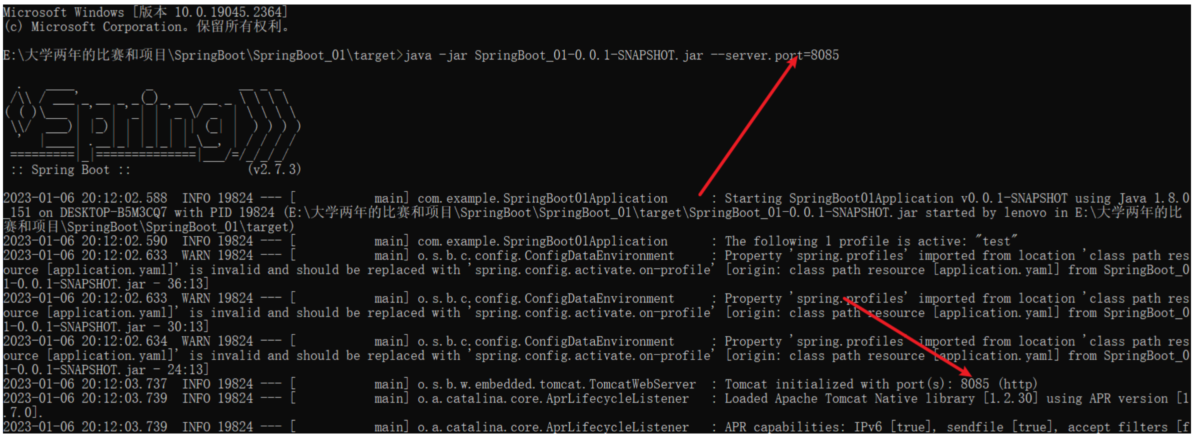
npm修改运行种类



```
Microsoft Windows [版本 10.0.19045.2364]
(c) Microsoft Corporation。保留所有权利。

E:\大学两年的比赛和项目\SpringBoot\SpringBoot_01\target>java -jar SpringBoot_01-0.0.1-SNAPSHOT.jar --spring.profiles.active=dev

  .   ____          _            __ _ _
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.3)

2023-01-06 20:09:49.761  INFO 9508 --- [           main] com.example.SpringBoot01Application      : Starting SpringBoot01Application v0.0.1-SNAPSHOT using Java 1.8.0_151
 on DESKTOP-B5M3CQ7 with PID 9508 (E:\大学两年的比赛和项目\SpringBoot\SpringBoot_01\target\SpringBoot_01-0.0.1-SNAPSHOT.jar started by lenovo in E:\大学两年的比赛和项目\
SpringBoot\SpringBoot_01\target)
2023-01-06 20:09:49.763  INFO 9508 --- [           main] com.example.SpringBoot01Application      : The following 1 profile is active: "dev"
2023-01-06 20:09:49.802  WARN 9508 --- [           main] o.s.b.c.config.ConfigDataEnvironment     : Property 'spring.profiles' imported from location 'class path resourc
e [application.yaml]' is invalid and should be replaced with 'spring.config.activate.on-profile' [origin: class path resource [application.yaml] from SpringBoot_01-0.0.1
-SNAPSHOT.jar - 36:13]
2023-01-06 20:09:49.803  WARN 9508 --- [           main] o.s.b.c.config.ConfigDataEnvironment     : Property 'spring.profiles' imported from location 'class path resourc
e [application.yaml]' is invalid and should be replaced with 'spring.config.activate.on-profile' [origin: class path resource [application.yaml] from SpringBoot_01-0.0.1
-SNAPSHOT.jar - 30:13]
2023-01-06 20:09:49.803  WARN 9508 --- [           main] o.s.b.c.config.ConfigDataEnvironment     : Property 'spring.profiles' imported from location 'class path resourc
e [application.yaml]' is invalid and should be replaced with 'spring.config.activate.on-profile' [origin: class path resource [application.yaml] from SpringBoot_01-0.0.1
-SNAPSHOT.jar - 24:13]
2023-01-06 20:09:50.828  INFO 9508 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 8081 (http)
2023-01-06 20:09:50.829  INFO 9508 --- [           main] o.a.catalina.core.AprLifecycleListener   : Loaded Apache Tomcat Native library [1.2.30] using APR version [1.7.0
].
2023-01-06 20:09:50.829  INFO 9508 --- [           main] o.a.catalina.core.AprLifecycleListener   : APR capabilities: IPv6 [true], sendfile [true], accept filters [false
```

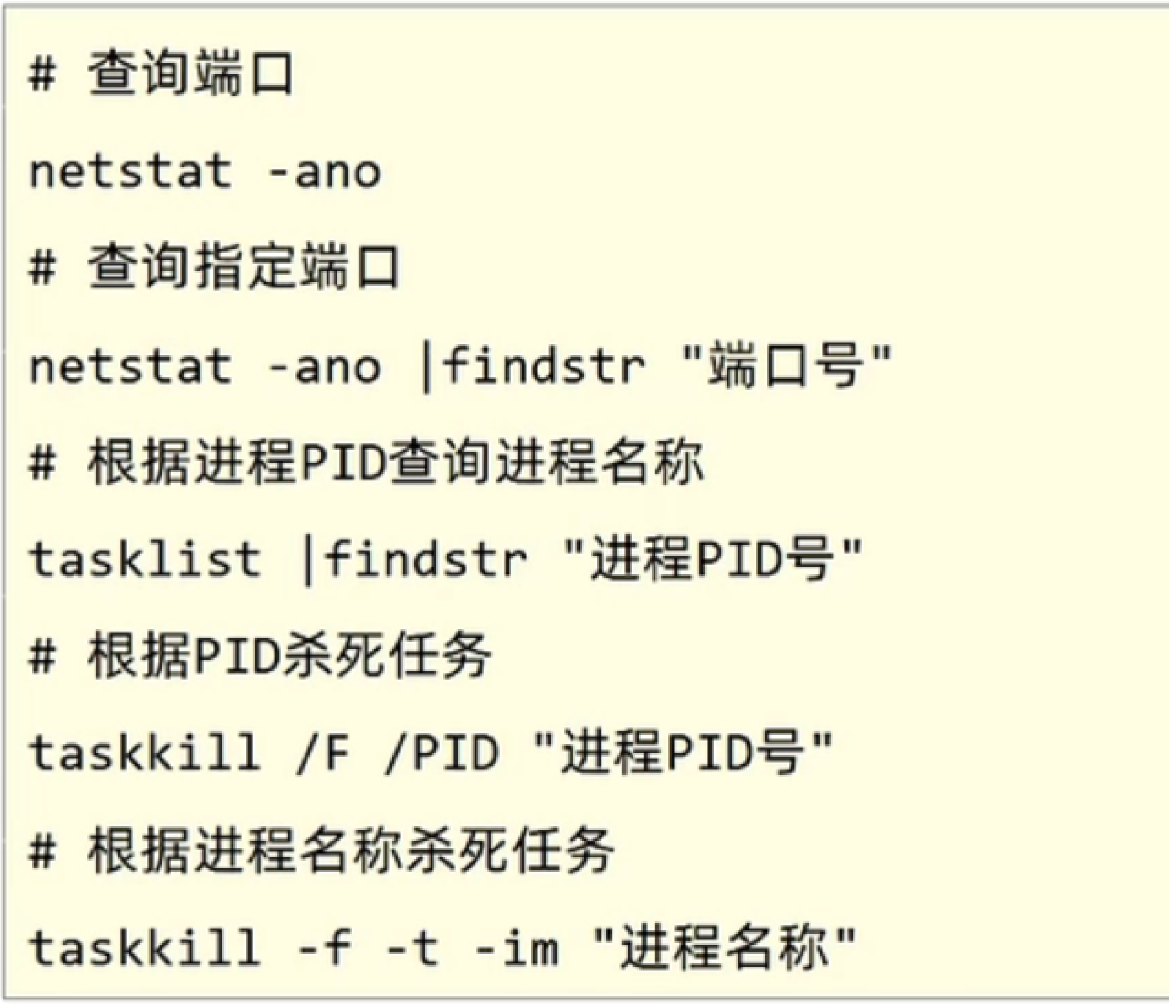
```
java -jar SpringBoot_01-0.0.1-SNAPSHOT.jar --server.port=8085
```

修改临时端口



```
Microsoft Windows [版本 10.0.19045.2364]
(c) Microsoft Corporation。保留所有权利。

E:\大学两年的比赛和项目\SpringBoot\SpringBoot_01\target>java -jar SpringBoot_01-0.0.1-SNAPSHOT.jar --server.port=8085

  .   ____          _            __ _ _
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.3)

2023-01-06 20:12:02.588  INFO 19824 --- [           main] com.example.SpringBoot01Application      : Starting SpringBoot01Application v0.0.1-SNAPSHOT using Java 1.8.0
_151 on DESKTOP-B5M3CQ7 with PID 19824 (E:\大学两年的比赛和项目\SpringBoot\SpringBoot_01\target\SpringBoot_01-0.0.1-SNAPSHOT.jar started by lenovo in E:\大学两年的比
赛和项目\SpringBoot\SpringBoot_01\target)
2023-01-06 20:12:02.590  INFO 19824 --- [           main] com.example.SpringBoot01Application      : The following 1 profile is active: "test"
2023-01-06 20:12:02.633  WARN 19824 --- [           main] o.s.b.c.config.ConfigDataEnvironment     : Property 'spring.profiles' imported from location 'class path res
ource [application.yaml]' is invalid and should be replaced with 'spring.config.activate.on-profile' [origin: class path resource [application.yaml] from SpringBoot_0
1-0.0.1-SNAPSHOT.jar - 36:13]
2023-01-06 20:12:02.633  WARN 19824 --- [           main] o.s.b.c.config.ConfigDataEnvironment     : Property 'spring.profiles' imported from location 'class path res
ource [application.yaml]' is invalid and should be replaced with 'spring.config.activate.on-profile' [origin: class path resource [application.yaml] from SpringBoot_0
1-0.0.1-SNAPSHOT.jar - 30:13]
2023-01-06 20:12:02.634  WARN 19824 --- [           main] o.s.b.c.config.ConfigDataEnvironment     : Property 'spring.profiles' imported from location 'class path res
ource [application.yaml]' is invalid and should be replaced with 'spring.config.activate.on-profile' [origin: class path resource [application.yaml] from SpringBoot_0
1-0.0.1-SNAPSHOT.jar - 24:13]
2023-01-06 20:12:03.737  INFO 19824 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 8085 (http)
2023-01-06 20:12:03.739  INFO 19824 --- [           main] o.a.catalina.core.AprLifecycleListener   : Loaded Apache Tomcat Native library [1.2.30] using APR version [1
.7.0].
2023-01-06 20:12:03.739  INFO 19824 --- [           main] o.a.catalina.core.AprLifecycleListener   : APR capabilities: IPv6 [true], sendfile [true], accept filters [f
```

Windonws端口被占用



```
# 查询端口
netstat -ano
# 查询指定端口
netstat -ano |findstr "端口号"
# 根据进程PID查询进程名称
tasklist |findstr "进程PID号"
# 根据PID杀死任务
taskkill /F /PID "进程PID号"
# 根据进程名称杀死任务
taskkill -f -t -im "进程名称"
```

配置高级

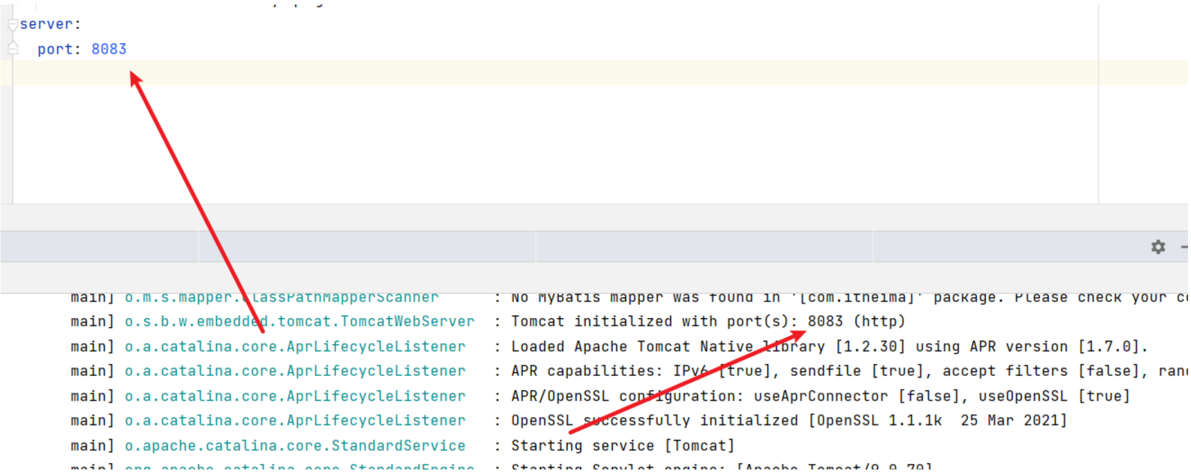
修改临时属性

```
@SpringBootApplication
public class Package1Application {

    public static void main(String[] args) {

        String []arg = new String[1];
        arg[0] = "--server.port=8088";

        SpringApplication.run(Package1Application.class, arg);
    }

}
```

拦截临时属性

```java
public class Package1Application {

    public static void main(String[] args) {

        // String []arg = new String[1];
        // arg[0] = "--server.port=8088";

        SpringApplication.run(Package1Application.class);
    }

}
```

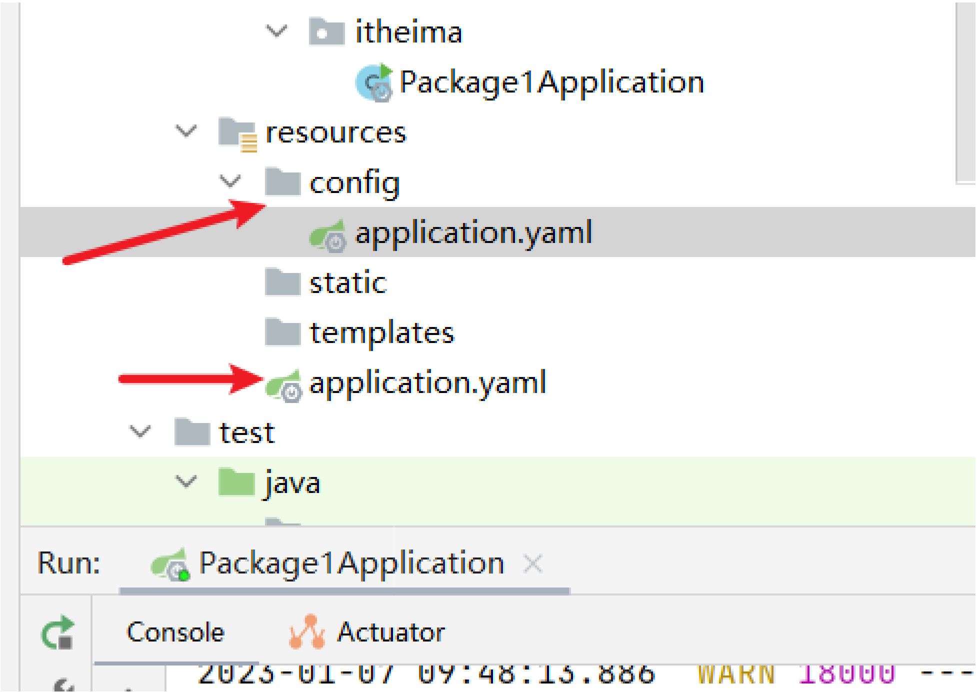
创建config文件夹覆盖原来文件



```yaml
server:
  port: 8083
```

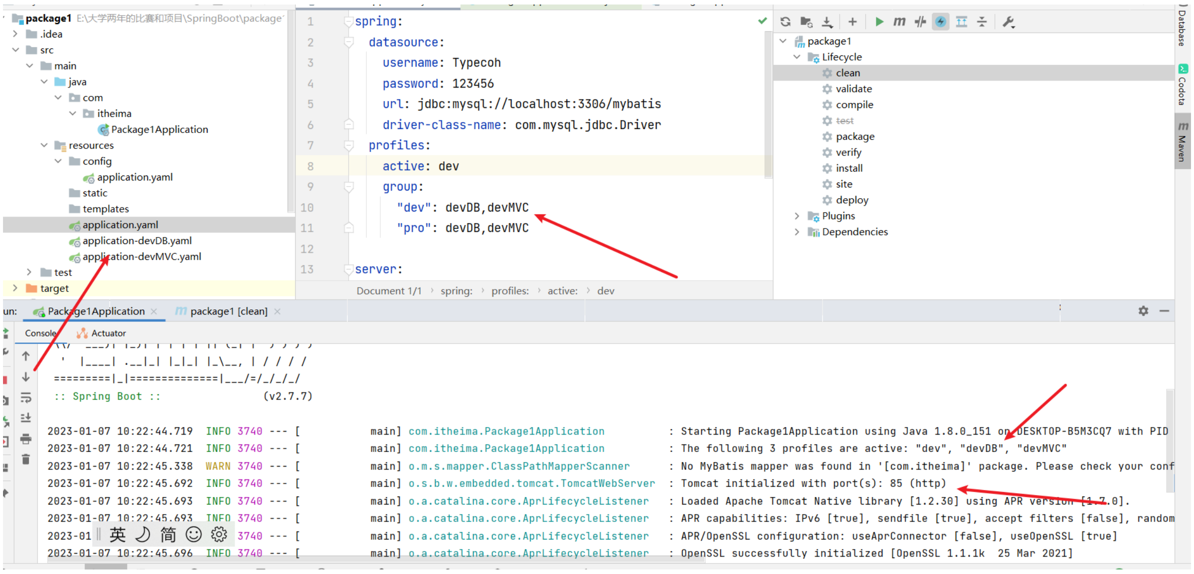
```
main] o.m.s.mapper.ClassPathMapperScanner       : No MyBatis mapper was found in '[com.itheima]' package. Please check your c
main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 8083 (http)
main] o.a.catalina.core.AprLifecycleListener   : Loaded Apache Tomcat Native library [1.2.30] using APR version [1.7.0].
main] o.a.catalina.core.AprLifecycleListener   : APR capabilities: IPv6 [true], sendfile [true], accept filters [false], ran
main] o.a.catalina.core.AprLifecycleListener   : APR/OpenSSL configuration: useAprConnector [false], useOpenSSL [true]
main] o.a.catalina.core.AprLifecycleListener   : OpenSSL successfully initialized [OpenSSL 1.1.1k  25 Mar 2021]
main] o.apache.catalina.core.StandardService   : Starting service [Tomcat]
main] org.apache.catalina.core.StandardEngine  : Starting Servlet engine: [Apache Tomcat/9.0.70]
```

```yaml
spring:
  datasource:
    username: Typecoh
    password: 123456
    url: jdbc:mysql://localhost:3306/mybatis
    driver-class-name: com.mysql.jdbc.Driver
server:
  port: 8083
```



```
2023-01-07 09:48:13.886  WARN 18000 ---
```

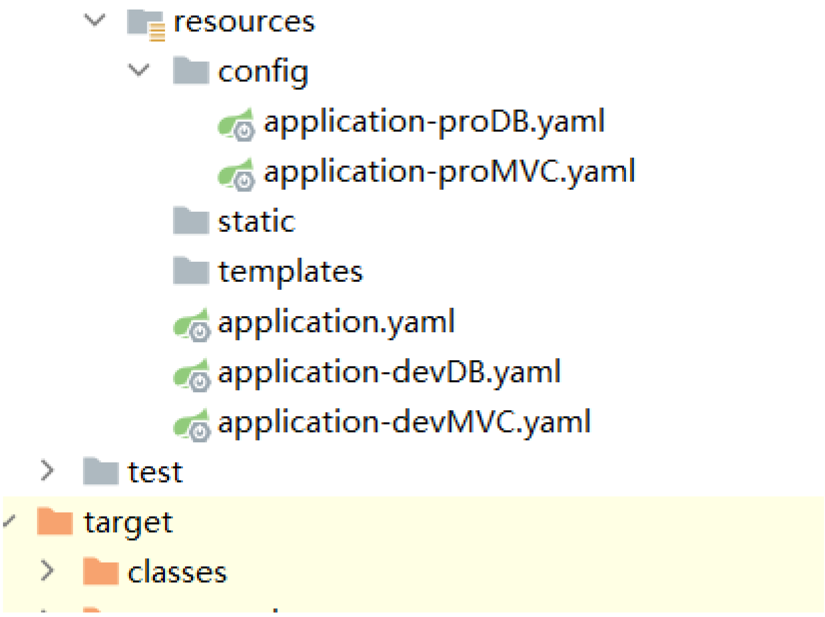
Maven和SpringBoot结合



```yaml
spring:
  datasource:
    username: Typecoh
    password: 123456
    url: jdbc:mysql://localhost:3306/mybatis
    driver-class-name: com.mysql.jdbc.Driver
  profiles:
    active: dev
    group:
      "dev": devDB,devMVC
      "pro": devDB,devMVC

server:
```

```
 '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.7)

2023-01-07 10:22:44.719  INFO 3740 --- [           main] com.itheima.Package1Application          : Starting Package1Application using Java 1.8.0_151 on DESKTOP-B5M3CQ7 with PID
2023-01-07 10:22:44.721  INFO 3740 --- [           main] com.itheima.Package1Application          : The following 3 profiles are active: "dev", "devDB", "devMVC"
2023-01-07 10:22:45.338  WARN 3740 --- [           main] o.m.s.mapper.ClassPathMapperScanner      : No MyBatis mapper was found in '[com.itheima]' package. Please check your conf
2023-01-07 10:22:45.692  INFO 3740 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 85 (http)
2023-01-07 10:22:45.693  INFO 3740 --- [           main] o.a.catalina.core.AprLifecycleListener   : Loaded Apache Tomcat Native library [1.2.30] using APR version [1.7.0].
2023-01-07 10:22:45.693  INFO 3740 --- [           main] o.a.catalina.core.AprLifecycleListener   : APR capabilities: IPv6 [true], sendfile [true], accept filters [false], random
2023-01                  3740 --- [           main] o.a.catalina.core.AprLifecycleListener   : APR/OpenSSL configuration: useAprConnector [false], useOpenSSL [true]
2023-01-07 10:22:45.696  INFO 3740 --- [           main] o.a.catalina.core.AprLifecycleListener   : OpenSSL successfully initialized [OpenSSL 1.1.1k  25 Mar 2021]
```

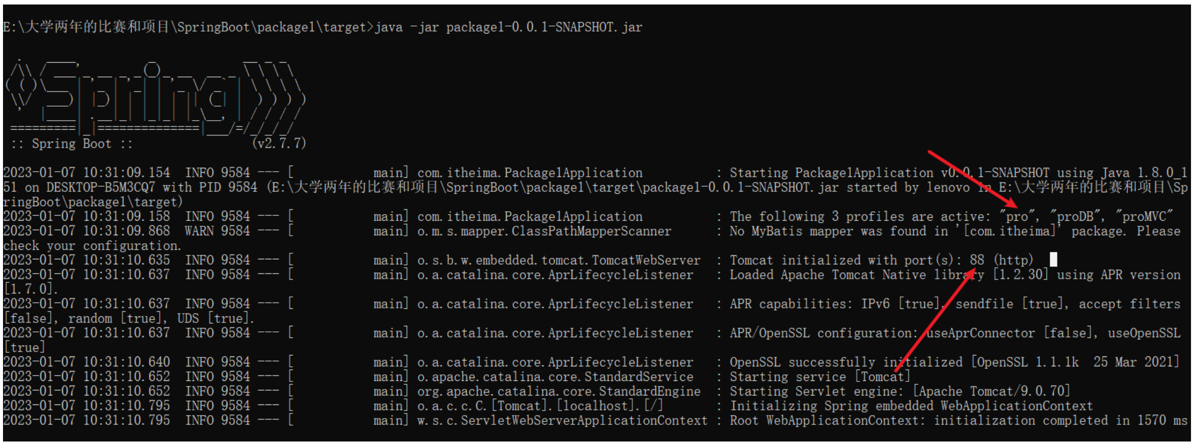
```yaml
  profiles:
    active: @profile.active@
    group:
      "dev": devDB,devMVC
      "pro": proDB,proMVC

server:
  port: 80
```



```
resources
  config
    application-proDB.yaml
    application-proMVC.yaml
  static
  templates
  application.yaml
  application-devDB.yaml
  application-devMVC.yaml
test
target
  classes
```

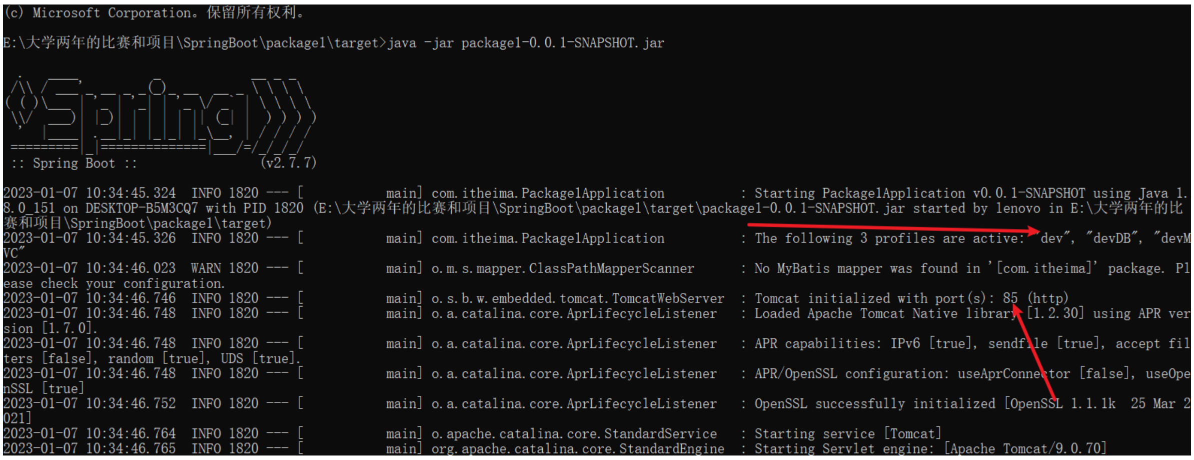
配置pom文件

```xml
<!--设置启动环境-->
<profiles>
    <profile>
        <id>env_pro</id>
        <properties>
            <profile.active>pro</profile.active>
        </properties>
        <!--<activation>-->
        <!--    <activeByDefault>true</activeByDefault>-->
        <!--</activation>-->
    </profile>
    <profile>
        <id>env_dev</id>
        <properties>
            <profile.active>dev</profile.active>
        </properties>
        <activation>
            <activeByDefault>true</activeByDefault>
        </activation>
    </profile>
</profiles>
```



```
E:\大学两年的比赛和项目\SpringBoot\package1\target>java -jar package1-0.0.1-SNAPSHOT.jar

  .   ____          _            __ _ _
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.7)

2023-01-07 10:31:09.154  INFO 9584 --- [           main] com.itheima.Package1Application          : Starting Package1Application v0.0.1-SNAPSHOT using Java 1.8.0_1
51 on DESKTOP-B5M3CQ7 with PID 9584 (E:\大学两年的比赛和项目\SpringBoot\package1\target\package1-0.0.1-SNAPSHOT.jar started by lenovo in E:\大学两年的比赛和项目\Sp
ringBoot\package1\target)
2023-01-07 10:31:09.158  INFO 9584 --- [           main] com.itheima.Package1Application          : The following 3 profiles are active: "pro", "proDB", "proMVC"
2023-01-07 10:31:09.868  WARN 9584 --- [           main] o.m.s.mapper.ClassPathMapperScanner      : No MyBatis mapper was found in '[com.itheima]' package. Please
check your configuration.
2023-01-07 10:31:10.635  INFO 9584 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 88 (http)
2023-01-07 10:31:10.637  INFO 9584 --- [           main] o.a.catalina.core.AprLifecycleListener   : Loaded Apache Tomcat Native library [1.2.30] using APR version
[1.7.0].
2023-01-07 10:31:10.637  INFO 9584 --- [           main] o.a.catalina.core.AprLifecycleListener   : APR capabilities: IPv6 [true], sendfile [true], accept filters
[false], random [true], UDS [true].
2023-01-07 10:31:10.637  INFO 9584 --- [           main] o.a.catalina.core.AprLifecycleListener   : APR/OpenSSL configuration: useAprConnector [false], useOpenSSL
[true]
2023-01-07 10:31:10.640  INFO 9584 --- [           main] o.a.catalina.core.AprLifecycleListener   : OpenSSL successfully initialized [OpenSSL 1.1.1k  25 Mar 2021]
2023-01-07 10:31:10.652  INFO 9584 --- [           main] o.apache.catalina.core.StandardService   : Starting service [Tomcat]
2023-01-07 10:31:10.652  INFO 9584 --- [           main] org.apache.catalina.core.StandardEngine  : Starting Servlet engine: [Apache Tomcat/9.0.70]
2023-01-07 10:31:10.795  INFO 9584 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded WebApplicationContext
2023-01-07 10:31:10.795  INFO 9584 --- [           main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 1570 ms
```

```xml
<!--设置启动环境-->
<profiles>
    <profile>
        <id>env_pro</id>
        <properties>
            <profile.active>pro</profile.active>
        </properties>
        <!--<activation>-->
        <!--    <activeByDefault>true</activeByDefault>-->
        <!--</activation>-->
    </profile>
    <profile>
        <id>env_dev</id>
        <properties>
            <profile.active>dev</profile.active>
        </properties>
        <activation>
            <activeByDefault>true</activeByDefault>
        </activation>
    </profile>
</profiles>
```



```
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E:\大学两年的比赛和项目\SpringBoot\package1\target>java -jar package1-0.0.1-SNAPSHOT.jar

  .   ____          _            __ _ _
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.7.7)

2023-01-07 10:34:45.324  INFO 1820 --- [           main] com.itheima.Package1Application          : Starting Package1Application v0.0.1-SNAPSHOT using Java 1.
8.0_151 on DESKTOP-B5M3CQ7 with PID 1820 (E:\大学两年的比赛和项目\SpringBoot\package1\target\package1-0.0.1-SNAPSHOT.jar started by lenovo in E:\大学两年的比
赛和项目\SpringBoot\package1\target)
2023-01-07 10:34:45.326  INFO 1820 --- [           main] com.itheima.Package1Application          : The following 3 profiles are active: "dev", "devDB", "devM
VC"
2023-01-07 10:34:46.023  WARN 1820 --- [           main] o.m.s.mapper.ClassPathMapperScanner      : No MyBatis mapper was found in '[com.itheima]' package. Pl
ease check your configuration.
2023-01-07 10:34:46.746  INFO 1820 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 85 (http)
2023-01-07 10:34:46.748  INFO 1820 --- [           main] o.a.catalina.core.AprLifecycleListener   : Loaded Apache Tomcat Native library [1.2.30] using APR ver
sion [1.7.0].
2023-01-07 10:34:46.748  INFO 1820 --- [           main] o.a.catalina.core.AprLifecycleListener   : APR capabilities: IPv6 [true], sendfile [true], accept fil
ters [false], random [true], UDS [true].
2023-01-07 10:34:46.748  INFO 1820 --- [           main] o.a.catalina.core.AprLifecycleListener   : APR/OpenSSL configuration: useAprConnector [false], useOpe
nSSL [true]
2023-01-07 10:34:46.752  INFO 1820 --- [           main] o.a.catalina.core.AprLifecycleListener   : OpenSSL successfully initialized [OpenSSL 1.1.1k  25 Mar 2
021]
2023-01-07 10:34:46.764  INFO 1820 --- [           main] o.apache.catalina.core.StandardService   : Starting service [Tomcat]
2023-01-07 10:34:46.765  INFO 1820 --- [           main] org.apache.catalina.core.StandardEngine  : Starting Servlet engine: [Apache Tomcat/9.0.70]
```

日志配置

```
debug: true // 开启debug 可以不开启

logging:
  level:
    root: info
```

```
logging:
#   设置分组
  group:
    ebank: com.itheima.controller,com.itheima.service

  level:
    root: info
#     将组内设置信息
    ebank: info
```

使用lombok记录日志

```
<dependency>
    <groupId>org.projectlombok</groupId>
    <artifactId>lombok</artifactId>
</dependency>
```

```
@Slf4j
@RestController
@RequestMapping("/Book")
public class controller {

    @GetMapping
    public String say(){

        log.warn("warn~~~~~");
        return "SpringBoot~~";
    }
}
```

设置日志格式输出

```
logging:
  pattern:
    console: "%d -%m %n"
```