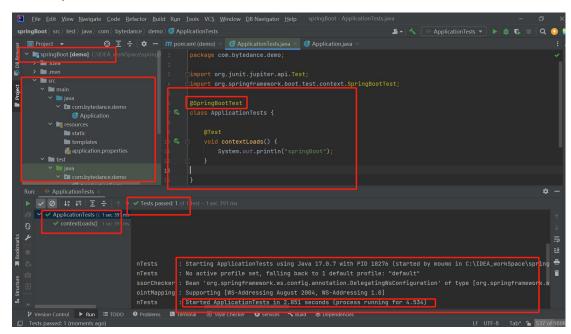
SpringBoot

任务要求1

能够成功启动springboot空项目

- 1. 启动连接/生成初始项目包: https://start.spring.io/
- 2. SpringBoot 教程: https://www.cainiaojc.com/springboot/springboot-tutorial.html
- 3. 启动空 springboot 空项目:
 - 3.1. Output



任务2

认识Restful和CRUD

两个网络通信标准规范,一个面向前端,另一个面向数据库。

仿照<u>https://www.cainiaojc.com/springboot/springboot-rest-example.html</u>中的REST示例,写一个press的REST接口,用postman进行校验。

预先向数据库中存储一篇id为1的文章,做到使用get请求访问localhost:port/press/1的时候,能够以json格式返回文章数据。

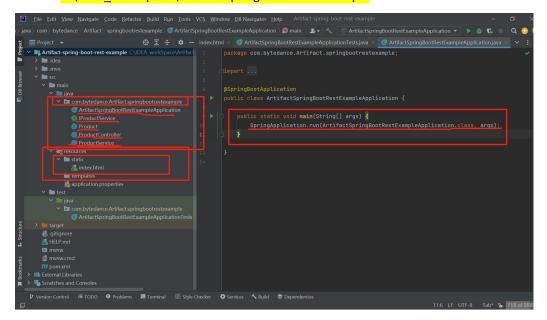
1. RESTful 架构详解/...什么是 RESTful? .../...: https://www.runoob.com/w3cnote/restful-architecture.html

2. crud/CRUD - (Create, Read, Update, Delete): https://baike.baidu.com/item/crud/3606157?fr=aladdin

3. 复现"https://www.cainiaojc.com/springboot/springboot-rest-example.html"中的 REST 示例:

(Using using an in-memory list instead of using a database like MySQL)

3.1. In 'C:\IDEA workSpace\Artifact-spring-boot-rest-example':



3.2. Product.java:

```
© ProductJava × ② ProductControllerjava × ③ ProductServicejava × ¾ Index.html

package com.bytedance.Artifact.springbootrestexample;

12 usages
public class Product {
3 usages
private int id;
3 usages
private String pname;
3 usages
private String batchno;
3 usages
private double price;
3 usages
private int noofproduct;

//默认构造函数
no usages
public Product()

{
13 }

// Constructor
6 usages
public Product(int id, String pname, String batchno, double price, int noofthis.id = id;
```

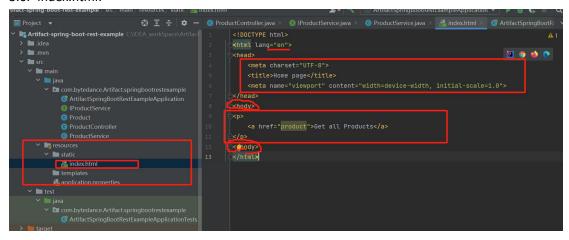
3.3. ProductController.java:

3.4. IProductService(Interface_Product_Service):

3.5. ProductService:

(Using using an in-memory list instead of using a database like MySQL)

3.6. Index.html:



3.7. Output:

Terminal

```
### ArtifactSpringBootRestExampleApplication **

**tifactSpringBootRestExampleApplication tifactSpringBootRestExampleApplication tifactSpringBootRestExampleApplication to s.b.w.embedded.tomcat.TomcatWebServer apache.catalina.core.StandardService apache.catalina.core.StandardEngine a.c.c.C.[Tomcat].[localhost].[/] : Initialized with port 8080 (http)

**so.ServletWebServerApplicationContext s.b.a.w.s.WelcomePageHandlerHapping s.b.w.embedded.tomcat.TomcatWebServer tifactSpringBootRestExampleApplication to starting Servlet engine: [Apache Tomcat/10.1.17] : Initializing Spring embedded WebApplicationContext s.b.a.w.s.WelcomePageHandlerHapping s.b.w.embedded.tomcat.TomcatWebServer tifactSpringBootRestExampleApplication in 2.452 seconds (process running for 2.887)
```

• 打开浏览器并调用 URL http://localhost:8080/index.html。它显示了 获取所有产品的链接,如下图所示:

4. 仿照 https://www.cainiaojc.com/springboot/springboot-rest-example.html 中的 REST 示例,写一个 press 的 REST 接口,用 postman 进行校验(<mark>疑问:如何'用 postman进行校验?',是类似于 crul...命令吗?</mark>):

(Using using an in-memory list instead of using a database like MySQL)

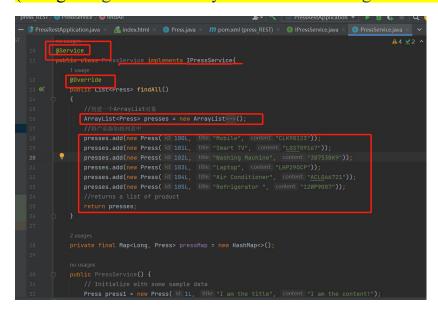
"C:\IDEA_workSpace\press_REST":

4.1. JavaBean creation: (Press.java)

• • •

· PressService.java:

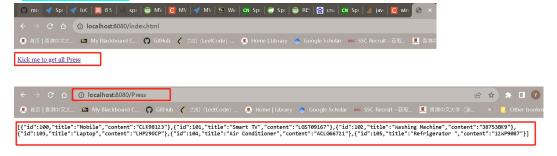
(Using using an in-memory list instead of using a database like MySQL)



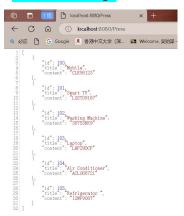
• 打开浏览器并调用 URL <u>http://localhost:8080/index.html</u> (<mark>'index.html' here is a folder under</mark>

<mark>"C:\lDEA_workSpace\press-REST_databaseVersion\</mark>src\main\resources\static\index.html<mark>" !</mark>)。 它**显示了 获取所有产品的链接**,如下图所示:

- In Google Chrome:



- In Microsoft Edge:



- 5. 仿照 https://www.cainiaojc.com/springboot/springboot-rest-example.html 中的 REST 示例,写一个 press 的 REST 接口,用 postman 进行校验。
- 预先向数据库中存储一篇 id 为 1 的文章, 做到使用 get 请求访问 localhost:port/press/1(localhost:8080/press/1 here, since)的时候,能够以 json 格式返回文章数据。

Modify parts:

5.1. PressService.java:

```
press-REST databaseVersion | size | main | java | com | bytedance | press REST | @ PressService | @ getPressByld | live | @ PressService | main | java | com | bytedance | press REST | @ PressService | main | java | com | bytedance | press REST | @ PressService | main | java | com | bytedance | press REST | @ PressService | main | java | util.List; | import | java.util.List; | import | java.util.l
```

```
//returns a list of product
return presses;
/*}*/

1 usage
@Override
public List<Press> findAtt() {
PressServiceImpl();
return presses;
}

1 usage
@Override
public Optional Press> getPressById(Long id) {
PressServiceImpl();
return presses.stream()
.filter(press -> press.getId().equals(id))
.findFirst();
}
```

5.2. PressController.java:

5.3. Output

"localhost:8080/press/105":



"localhost:8080/press/103":



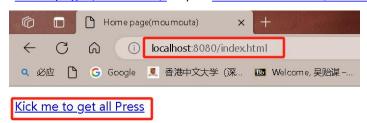
"localhost:8080/press/100":



"localhost:8080/press/Press":



"Home page (moumouta)" / "localhost:8080/index.html"



After Kick the link "Kick me to get all Press":

Same as "<u>localhost:8080/press/Press</u>" page.

• 用 postman 进行校验

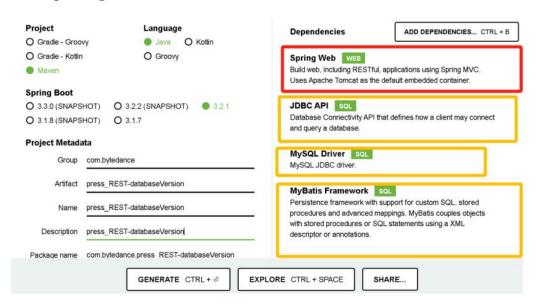
```
| StatusCode | 266 | StatusDescription : | Content | Eminate | Emi
```

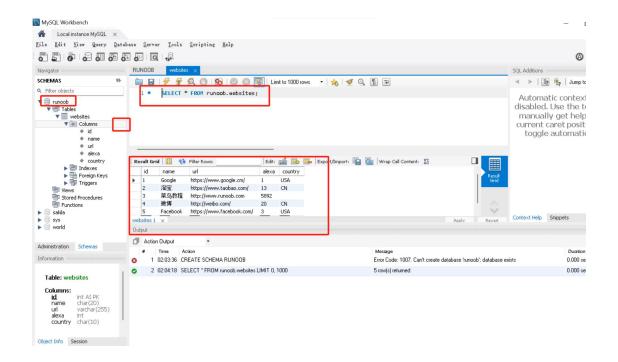
• 缺点/未完成的地方.

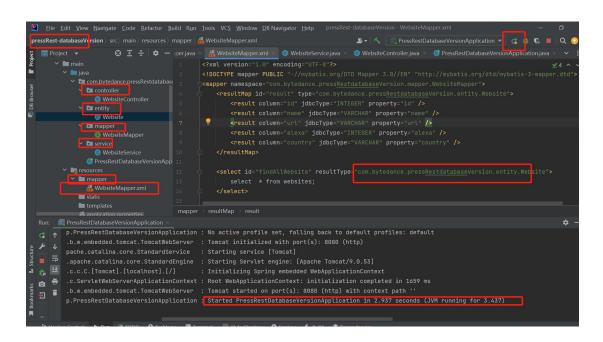
只能实现 in-memory list 而不是 using a database like MySQL。在网上查了如何(远程)连接(绑定)SpringBoot 和 MySQL数据库,但实现过程中出现了较大阻碍。请老师帮忙指点下~(已解决)

• Database Version:

1. Spring initializr







Reference:

 $\frac{\text{https://blog.csdn.net/YangMaxl/article/details/120757964?spm=1001.2014.3001.5501}}{\text{https://blog.csdn.net/YouthBlood9/article/details/120829154}}$

mapper in 'com.example' and mapper in

'resource.mapper'

. . .

2. 创建 mapper 映射层: 用于对数据库进行数据持久化操作,他的方法语句是直接针对数据库操作的。主要实现一些增加数值操作,在 mybatis 中方法主要与*Mapper.xml 内相互一一映射。

2.创建mapper映射层:用于对数据库进行数据持久化操作,他的方法语句是直接针对数据库操作的,主要实现一些增删改查操作,在 mybatis 中方法主要与*Mapper.xml 内相互——映射。 🙀 File Edit View Navigate Code Analyze Refactor Build Run Iools VCS Window Help mybatis test [...网络唐伯琳程/作业/2021_06] -\WebsiteMapper.java 🔨 🍕 MybatisTestApplication 🗸 😭 🐧 🕟 🕒 📭 🗈 🔾 😊 😤 💠 — 🄞 Website.java × 🄞 WebsiteController.java × 🐧 WebsiteMapper.java × 🟭 WebsiteMapper.xml × 🐧 MybatisTestApplication.java × -==2 May ■ 2021 06 E\计算机1901\网络通信编程\作业\2021 1 package com.example.mybatis_test.mapper; Database > idea import com.example.mybatis_test.entity.Website; m Maven m src import org.apache.ibatis.annotations.Mapper: import java.util.List; ✓ Image: Com.example.mybatis_test * @author Mei → Controller @company @create © WebsiteController ∨ **□** entity © Website mapper

WebsiteMapper public interface WebsiteMapper {
 public List<Website> findAllWebsite(); public List<Website> findWebsiteById(int id); service WebsiteService MybatisTestApplication WebsiteMapper接口:

3. 创建 Mapper 映射对应的 WebsiteMapper.xml 文件

.....

注意该文件放在 resources 目录下的 mapper 包中,具体包名位置 namespace 要和上边的映射类对应。

WebsiteMapper.xml:

3. 创建 Mapper映射 对应的 WebsiteMapper.xml 文件



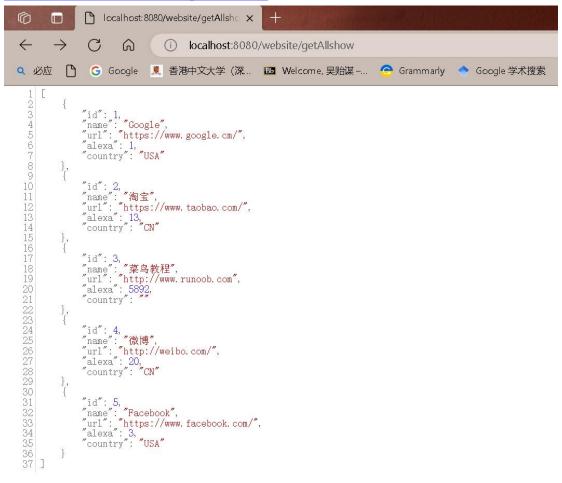
注意该文件放在 resources 目录下的 mapper 包中,具体包名位置namespace要和上边的映射类对应。

WebsiteMapper.xml:

Output:

```
Java and <mark>springBoot</mark>
Mybytis,
                                                     S
WebsiteController.java × | 🍩 WebsiteService.java × | 🚳 application.properties × | 🚳 PressKestDatabaseVersionApplicatio
          <modelVersion>4.0.0</modelVersion>
          <parent>
              <groupId>orq.springframework.boot
              <artifactId>spring-boot-starter-parent</artifactId>
              <version>2.5.5
              <relativeratn/> <!-- lookup parent from repository -->
          </parent
          <groupId>com.example
          <artifactId>mybatis_test</artifactId>
          <version>0.0.1-$NAPSHOT</version>
          <name>mybatis_test</name>
5
          <description>Demo project for Spring Boot</description>
          properties>
              <java.version>1.8</java.version>
8
          </properties>
9
          <dependencies>
0 0
              <dependency>
                  <groupId; org.springframework.boot</pre>
2
                  <artifactId>spring-boot-starter-jdbc</artifactId>
              </dependency:
3
4
 0
              <dependency>
                  <groupId>org.springframework.boot
5
                  <artifactId>spring-boot-starter-web</artifactId>
              </dependency>
              <dependency>
                  <groupId>org.mybatis.spring.boot
                  cartifact(d>myhatis-spring-boot-starter</artifactId>
                  <version>2.1.4
              </dependency>
3
4 6th
              chenendencys
      project > dependencies > dependency > version
```

localhost:8080/website/getAllshow



localhost:8080/website//getWebsiteId/1

