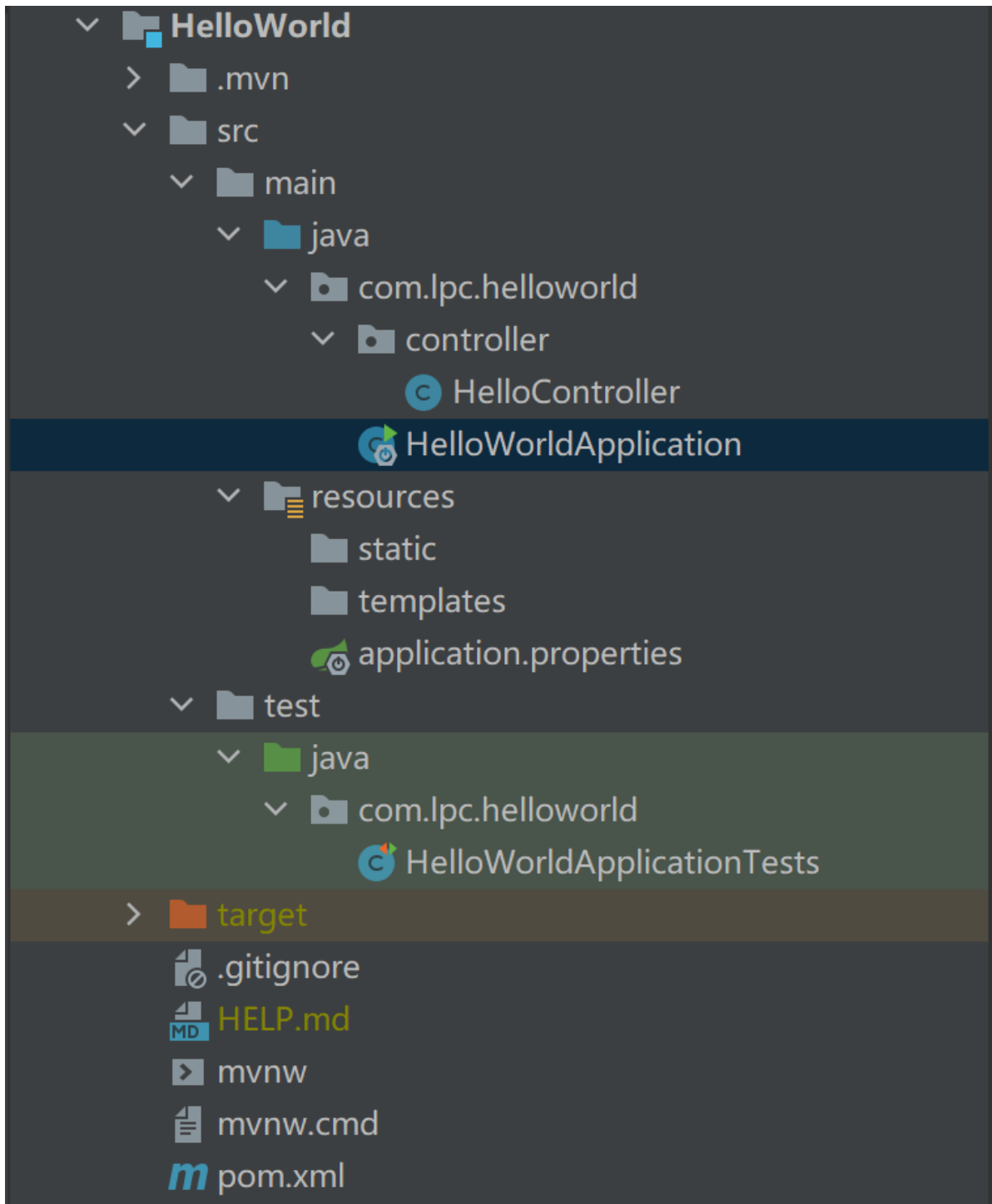


一、Hello World

1、目录结构



2、代码

- HelloController代码

```
package com.lpc.helloworld.controller;  
  
import org.springframework.web.bind.annotation.GetMapping;
```

```
import org.springframework.web.bind.annotation.RestController;

/**
 * @author byu_rself
 * @create 2021/9/7 21:58
 */

@RestController
public class HelloController {

    @GetMapping("/hello")
    public String hello(){
        return "Hello world!";
    }

}
```

- HelloWorldApplication代码

```
package com.lpc.helloworld;

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

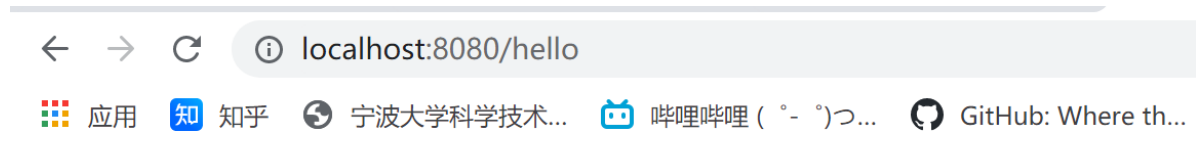
@SpringBootApplication
public class HelloWorldApplication {

    public static void main(String[] args) {
        SpringApplication.run(HelloWorldApplication.class, args);
    }

}
```

3、运行效果

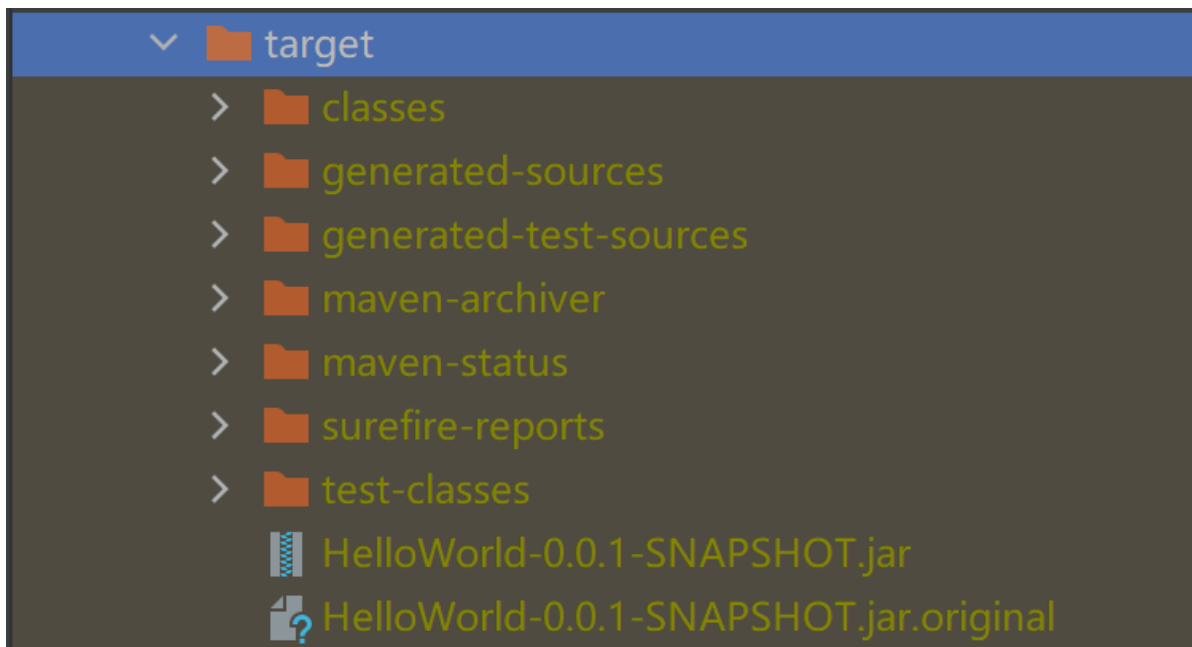
>浏览器内运行



Hello World!

>cmd命令行中运行

对代码打包



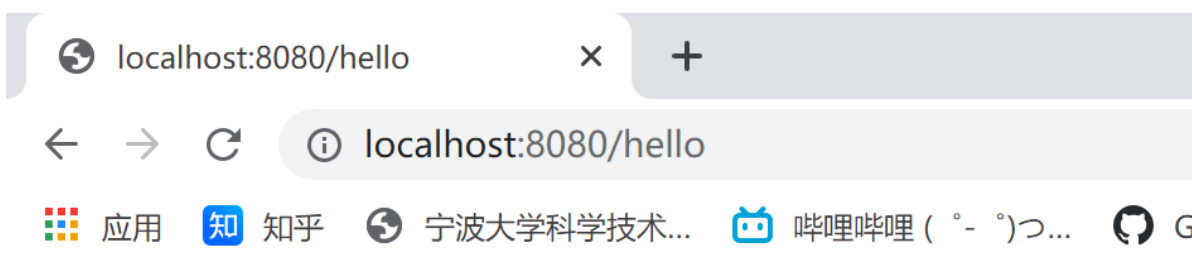
在cmd中输入指令

```
C:\Windows\System32\cmd.exe - java -jar HelloWorld-0.0.1-SNAPSHOT.jar
Microsoft Windows [版本 10.0.19042.1165]
(c) Microsoft Corporation。保留所有权利。

D:\Java_Code\SpringBootWork\HelloWorld\target>java -jar HelloWorld-0.0.1-SNAPSHOT.jar

:: Spring Boot :: (v2.5.4)

2021-09-08 08:57:56.698 INFO 7840 --- [main] c.lpc.helloworld.HelloWorldApplication : Starting HelloWorldApplication v0.0.1-SNAPSHOT using Java 1.8.0_152 on LAPTOP-C8CUCOM1 with PID 7840 (D:\Java_Code\SpringBootWork\HelloWorld\target\HelloWorld-0.0.1-SNAPSHOT.jar started by byu_rself in D:\Java_Code\SpringBootWork\HelloWorld\target)
2021-09-08 08:57:56.699 INFO 7840 --- [main] c.lpc.helloworld.HelloWorldApplication : No active profile set, falling back to default profiles: default
2021-09-08 08:57:57.821 INFO 7840 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2021-09-08 08:57:57.831 INFO 7840 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2021-09-08 08:57:57.832 INFO 7840 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.52]
2021-09-08 08:57:57.833 INFO 7840 --- [main] o.a.catalina.core.AprLifecycleListener : An older version [1.2.26] of the Apache Tomcat Native library is installed, while Tomcat recommends a minimum version of [1.2.30]
2021-09-08 08:57:57.834 INFO 7840 --- [main] o.a.catalina.core.AprLifecycleListener : Loaded Apache Tomcat Native library [1.2.26] using APR version [1.7.0].
2021-09-08 08:57:57.834 INFO 7840 --- [main] o.a.catalina.core.AprLifecycleListener : APR capabilities: IPv6 [true], sendfile [true], accept filters [false], random [true], UDS [true].
```



Hello World!

二、Mybatis

1、目录结构

- ▼ mybatis
 - > .mvn
 - ▼ src
 - ▼ main
 - ▼ java
 - ▼ com.lpc.mybatis
 - ▼ controller
 - UserController
 - ▼ domain
 - User
 - ▼ mapper
 - UserMapper
 - ▼ service
 - ▼ impl
 - UserServiceImpl
 - UserService
 - MybatisApplication
 - ▼ resources
 - ▼ mybatis.mapper
 - UserMapper.xml
 - static
 - templates
 - application.properties
 - ▼ test
 - ▼ java
 - ▼ com.lpc.mybatis
 - MybatisApplicationTests
 - > target
 - .gitignore
 - HELP.md
 - mvnw
 - mvnw.cmd
 - m pom.xml

2、初始数据库

> book	开始事务	文本	筛选	排序	导入	导出
> exam	id	name	age	sex	createTime	
information_schema	1	娄鹏程	21	男	2021年9月7日	
▼ mybatis	2	张三	18	男	2021年9月7日	
▼ 表						
user						
> 视图						
> 函数						
> 查询						

3、代码

- User代码

```
package com.lpc.mybatis.domain;

import lombok.AllArgsConstructor;
import lombok.Data;
import lombok.NoArgsConstructor;

/**
 * @author byu_rself
 * @create 2021/9/7 20:46
 */

@Data
@NoArgsConstructor
@AllArgsConstructor
public class User {

    private Integer id;
    private String name;
    private Integer age;
    private String sex;
    private String createTime;

}
```

- application.properties代码

```
spring.datasource.username=root
spring.datasource.password=123456
spring.datasource.url=jdbc:mysql://localhost:3306/mybatis?
serverTimezone=UTC&useUnicode=true&characterEncoding=utf-8
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

# 整合mybatis
mybatis.type-aliases-package=com.lpc.mybatis.domain
mybatis.mapper-locations=classpath:mybatis/mapper/*.xml
```

- 在test包中测试mybatis是否配置成功

```
package com.lpc.mybatis;
```

```

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

import javax.sql.DataSource;
import java.sql.SQLException;

@SpringBootTest
class MybatisApplicationTests {

    @Autowired
    DataSource dataSource;

    @Test
    void contextLoads() throws SQLException {
        System.out.println(dataSource.getClass());
        System.out.println(dataSource.getConnection());
    }

}

```

- UserMapper代码

```

package com.lpc.mybatis.mapper;

import com.lpc.mybatis.domain.User;
import org.apache.ibatis.annotations.Mapper;
import org.springframework.stereotype.Repository;

import java.util.List;

/**
 * @author byu_rself
 * @create 2021/9/7 20:50
 */

@Mapper
@Repository
public interface UserMapper {

    List<User> selectAllUser();

    User queryUserById(Integer id);

    int addUser(User user);

    int updateUserById(User user);

    int deleteUserById(int id);

}

```

- UserMapper.xml代码

```

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper

```

```

PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
"http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="com.lpc.mybatis.mapper.UserMapper">

    <select id="selectAllUser" resultType="User">
        select * from user
    </select>

    <select id="queryUserById" resultType="User">
        select * from user where id = #{id}
    </select>

    <insert id="addUser" parameterType="User">
        insert into user (id,name,age,sex,createTime) values (#{id},#{
name},#{age},#{sex},#{createTime})
    </insert>

    <update id="updateUserById" parameterType="User">
        update user set name = #{name},age = #{age},sex=#{sex},createTime=#
{createTime} where id = #{id}
    </update>

    <delete id="deleteUserById" parameterType="Integer">
        delete from user where id = #{id}
    </delete>

</mapper>

```

- UserService代码

```

package com.lpc.mybatis.service;

import com.lpc.mybatis.domain.User;

import java.util.List;

/**
 * @author byu_rself
 * @create 2021/9/7 21:44
 */

public interface UserService {

    List<User> selectAllUser();

    User queryUserById(Integer id);

    int addUser(User user);

    int updateUserById(User user);

    int deleteUserById(int id);

}

```

- UserServiceImpl代码


```

package com.lpc.mybatis.service.impl;

import com.lpc.mybatis.domain.User;
import com.lpc.mybatis.mapper.UserMapper;
import com.lpc.mybatis.service.UserService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import java.util.List;

/**
 * @author byu_rself
 * @create 2021/9/7 21:46
 */
@Service
public class UserServiceImpl implements UserService {

    @Autowired
    private UserMapper UserMapper;

    @Override
    public List<User> selectAllUser() {
        List<User> userList = UserMapper.selectAllUser();
        return userList;
    }

    @Override
    public User queryUserById(Integer id) {
        return UserMapper.queryUserById(id);
    }

    @Override
    public int addUser(User user) {
        return UserMapper.addUser(user);
    }

    @Override
    public int updateUserById(User user) {
        return UserMapper.updateUserById(user);
    }

    @Override
    public int deleteUserById(int id) {
        return UserMapper.deleteUserById(id);
    }
}

```

- UserController代码

```

package com.lpc.mybatis.controller;

import com.lpc.mybatis.domain.User;
import com.lpc.mybatis.service.UserService;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;

```

```

import java.util.List;

/**
 * @author byu_rself
 * @create 2021/9/7 21:09
 */

@RestController
public class UserController {

    @Autowired
    private UserService userService;

    @GetMapping("/selectAllUser")
    public List<User> selectAllUser(){
        List<User> userList = userService.selectAllUser();
        for (User user : userList) {
            System.out.println(user);
        }
        return userList;
    }

    @GetMapping("/queryUserById")
    public User queryUserById(){
        User user = userService.queryUserById(1);
        return user;
    }

    @GetMapping("/addUser")
    public String addUser(){
        userService.addUser(new User(null, "张三", 18, "男", "2021年9月7日"));
        return "添加成功";
    }

    @GetMapping("/updateUser")
    public String updateUser(){
        userService.updateUserById(new User(1, "Lpc", 18, "男", "2021年9月9日"));
        return "修改成功";
    }

    @GetMapping("/deleteUserById")
    public String deleteUserById(){
        userService.deleteUserById(2);
        return "删除成功";
    }

}

```

4、运行效果

>查询所有用户

localhost:8080/selectAllUser

应用 知乎 宁波大学科学技术... 哔哩哔哩 (゜-゜)つ... GitHub: Where th... Gitee - 基于 Git 的... 超星网 全国大学英语四、...

```
[{"id":1,"name":"姜鹏程","age":21,"sex":"男","createTime":"2021年9月7日"}, {"id":2,"name":"张三","age":18,"sex":"男","createTime":"2021年9月7日"}]
```

>根据id查询用户 (此时id=1)

localhost:8080/queryUserById

应用 知乎 宁波大学科学技术... 哔哩哔哩 (゜-゜)つ... GitHub: Where th...

```
{"id":1,"name":"姜鹏程","age":21,"sex":"男","createTime":"2021年9月7日"}
```

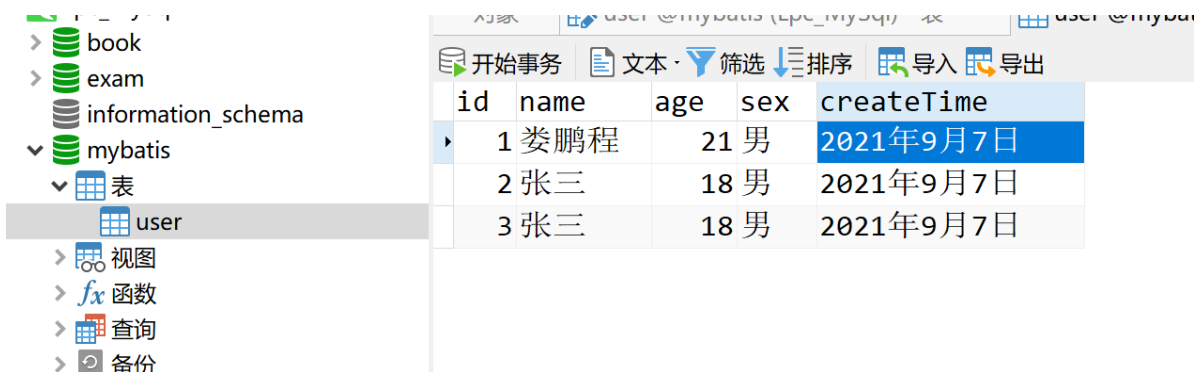
>添加用户

localhost:8080/addUser

应用 知乎 宁波大学科学技术... 哔哩哔哩 (゜-゜)つ... GitHub: Where th...

添加成功

此时数据库中新增一条记录



id	name	age	sex	createTime
1	姜鹏程	21	男	2021年9月7日
2	张三	18	男	2021年9月7日
3	张三	18	男	2021年9月7日

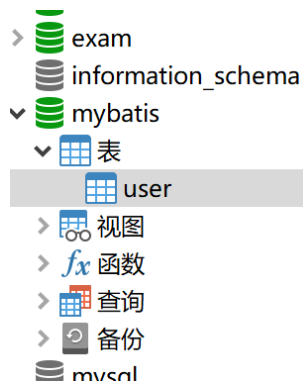
>修改用户

localhost:8080/updateUser

应用 知乎 宁波大学科学技术... 哔哩哔哩 (

修改成功

此时数据库第一条记录被修改



开始事务 文本 筛选 排序 导入 导出				
id	name	age	sex	createTime
1	Lpc	18	男	2021年9月9日
2	张三	18	男	2021年9月7日
3	张三	18	男	2021年9月7日

>删除用户

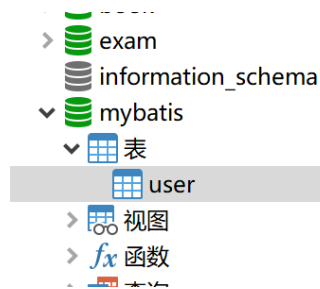


localhost:8080/deleteUserById

应用 知乎 宁波大学科学技术... 哔哩哔哩 (° - °)つ...

删除成功

此时数据库第二条记录被删除



开始事务 文本 筛选 排序 导入 导出				
id	name	age	sex	createTime
1	Lpc	18	男	2021年9月9日
3	张三	18	男	2021年9月7日