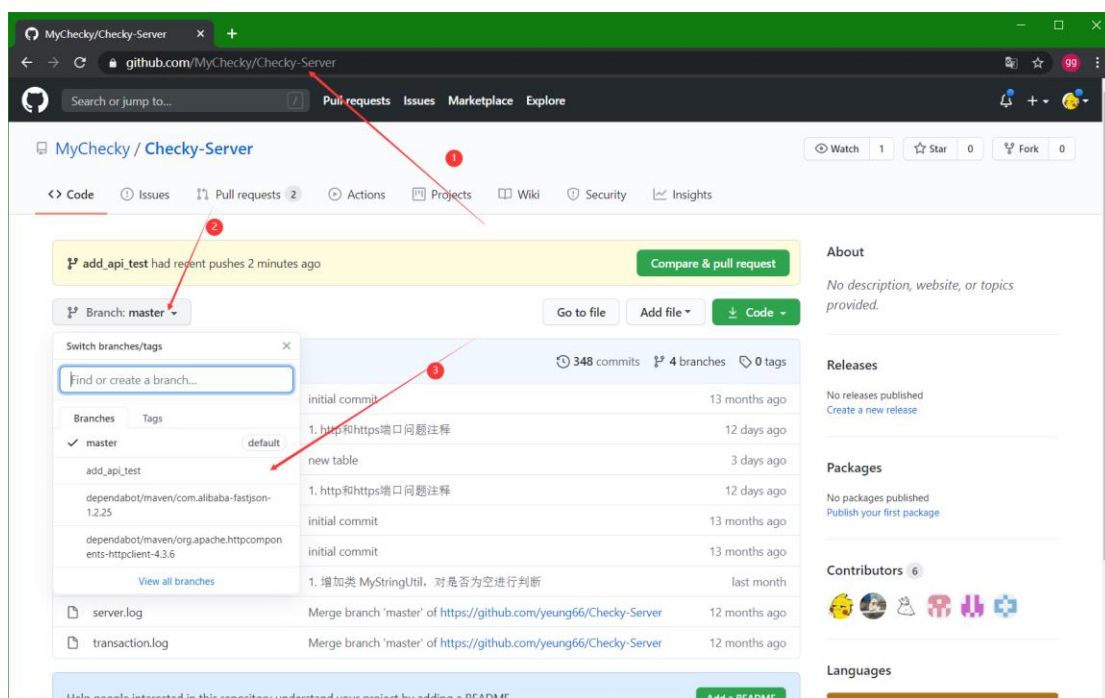


# 新增后台接口教程

——从数据库到测试

代码位置 <https://github.com/MyChecky/Checky-Server> branch: add\_api\_test



2020-07-11

芦光锋

# 1、DataBase

目前表（参见 0624 数据库群文件 ）：



临时新建表，add\_api\_test

```
CREATE TABLE `add_api_test` (  
  `add_api_id` varchar(36) NOT NULL,  
  `add_api_name` varchar(20) NOT NULL,  
  `add_api_content` varchar(255) NOT NULL,  
  `add_api_time` varchar(20) NOT NULL,  
  PRIMARY KEY (`add_api_id`)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8
```

## Column Information

	Field	Type
🔑	add_api_id	varchar(36) NOT NULL
	add_api_name	varchar(20) NOT NULL
	add_api_content	varchar(255) NOT NULL
	add_api_time	varchar(20) NOT NULL

## 2、domain

### 2.1 新建类

一个字段对应一个成员变量（数据库中 ‘\_’ 在这变为 下一字母大写），新建 类&成员变量：

```
package com.whu.checky.domain;

import com.baomidou.mybatisplus.annotations.TableId;

public class AddApiTest {
    @TableId
    private String addApiId;

    private String addApiName;

    private String addApiContent;

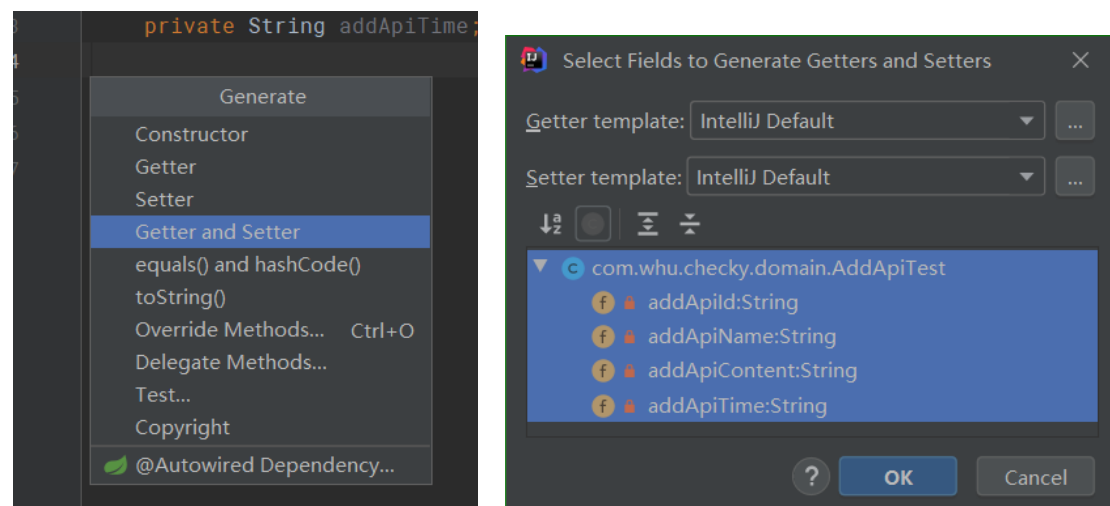
    private String addApiTime;

    public String getAddApiId() {
        return addApiId;
    }
}
```

### 2.2 快捷生成 Get & Set 方法：

使用 Alt + Insert 键，在 弹出框（下图左一） 选中 **getter and setter** 并回车；

然后在 弹出框（下图右一） Ctrl + A 选中全部并回车。



### 3、mapper

新建 接口类 AddApiTestMapper.java 如下

```
package com.whu.checky.mapper;

import ...
@Mapper
@Component(value = "AddApiTestMapper")
public interface AddApiTestMapper extends BaseMapper<AddApiTest> {
}
```

这样即可满足 90% 的业务场景。特殊情况下自己可以手写 SQL 语言。举例如下：

假如 add\_api\_test 表中的 add\_api\_content 字段中信息较为敏感，不可返回给用户前端。

新建 com.whu.checky.domain.AddApiTestAux.java

```
package com.whu.checky.domain;

import com.baomidou.mybatisplus.annotations.TableId;

public class AddApiTestAux {
    @TableId
    private String id;

    private String name;

    private String time;

    ... ..
}
```

在 com.whu.checky.mapper.AddApiTestMapper.java 中添加查询方法：

```
package com.whu.checky.mapper;

import ...
@Mapper
@Component(value = "AddApiTestMapper")
public interface AddApiTestMapper extends BaseMapper<AddApiTest> {
    @Select("SELECT `add_api_id` AS `id`, `add_api_name` AS `name`, `add_api_time` AS `time` " +
            "FROM `add_api_test` WHERE `add_api_id` = #{addApiId};")
    AddApiTestAux selectSafelyById(@Param("addApiId") String addApiId);
}
```

#### 4、service

Service 类

```
package com.whu.checky.service;

import ...

public interface AddApiTestService {
    int addAddApiTest(AddApiTest addApiTest);

    AddApiTest selectAddApiTestById(String id); // for admin

    AddApiTestAux selectAddApiTestSafelyById(String id); // for user
}
```

Service 实现类

```
package com.whu.checky.service.impl;

import ...

@Service("addApiTestService")
public class AddApiTestServiceImpl implements AddApiTestService {
    @Autowired
    private AddApiTestMapper addApiTestMapper;

    @Override
    public int addAddApiTest(AddApiTest addApiTest) {
        return addApiTestMapper.insert(addApiTest); // mapper 提供
    }

    @Override
    public AddApiTest selectAddApiTestById(String id) {
        return addApiTestMapper.selectById(id); // mapper 提供
    }

    @Override
    public AddApiTestAux selectAddApiTestSafelyById(String id) {
        return addApiTestMapper.selectSafelyById(id); // 自己写的
    }
}
```

## 5、controller

用户的 com.whu.checky.controller.AddApiTestController.java:

```
20 public class AddApiTestController {
21     @Autowired
22     AddApiTestService addApiTestService;
23
24     @RequestMapping("/add")
25     public JSONObject add(@RequestBody String jsonstr) {
26         AddApiTest addApiTest = JSON.parseObject(jsonstr, new TypeReference<AddApiTest>() {
27         });
28         addApiTest.setAddApiId(UUID.randomUUID().toString()); // 生成主键 id
29         addApiTest.setAddApiTime(MyConstants.DATETIME_FORMAT.format(new Date())); // 记录添加时间
30         int result = addApiTestService.addAddApiTest(addApiTest);
31         String addResult = result == 1 ? MyConstants.RESULT_OK : MyConstants.RESULT_FAIL;
32
33         JSONObject object = new JSONObject();
34         object.put("state", addResult);
35         return object;
36     }
37
38     @RequestMapping("/get")
39     public JSONObject get(@RequestBody String jsonstr) {
40         String id = JSON.parseObject(jsonstr).getString("key: id");
41         AddApiTestAux addApiTestAux = addApiTestService.selectAddApiTestSafelyById(id);
42
43         JSONObject object = new JSONObject();
44         object.put("state", MyConstants.RESULT_OK);
45         object.put("addApiTest", addApiTestAux);
46         return object;
47     }
48 }
49
```

管理员的 com.whu.checky.controller.admin.AddApiTestController.java:

```
14 @RestController
15 @RequestMapping("/admin/addApiTest")
16 @Component("AdminAddApiTestController") // 防止组件名相同冲突
17 public class AddApiTestController {
18     @Autowired
19     AddApiTestService addApiTestService;
20
21     @RequestMapping("/get")
22     public JSONObject get(@RequestBody String jsonstr) {
23         String id = JSON.parseObject(jsonstr).getString("key: id");
24         AddApiTest addApiTest = addApiTestService.selectAddApiTestById(id);
25
26         JSONObject object = new JSONObject();
27         object.put("state", MyConstants.RESULT_OK);
28         object.put("addApiTest", addApiTest);
29         return object;
30     }
31 }
32
```

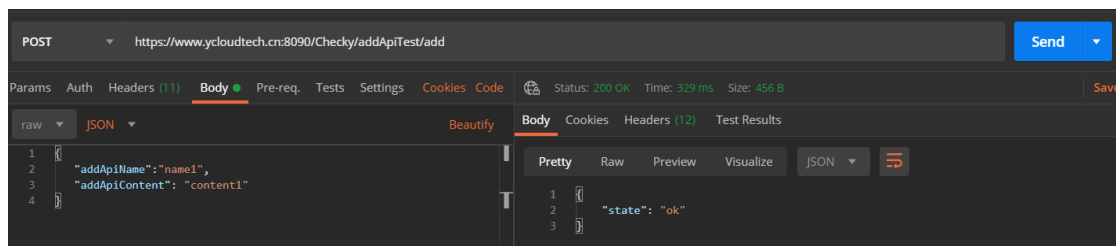
## 6、API Test

打开接口权限 com.whu.checky.config.WebSecurityConfig.java

```
51 // 暂时关闭权限认证
52 .antMatchers(...antPatterns: "/wechat/login", "/admin/login", "/resources/**", "/socket/**",
53     "/userAndHobby/getServiceTerms", "/essay/queryEssayById", "/essay/displayEssay",
54     "/essay/queryComments", "/task/taskDetail",
55     "/addApiTest/**", "/admin/**").permitAll() ExpressionUrlAuthorizationConfigurer<H>.ExpressionInterceptorUrlR
56 .antMatchers(...antPatterns: "/admin", "/**/admin/**").hasRole("ADMIN") ExpressionUrlAuthorizationConfigurer<H>.Exp
57 .antMatchers(...antPatterns: "/**").hasRole("USER") ExpressionUrlAuthorizationConfigurer<H>.ExpressionInterceptorUrlRegis
58 .and() HttpSecurity
59 csrf().csrfSourceMatcher(HttpSecurity
```

Postman:

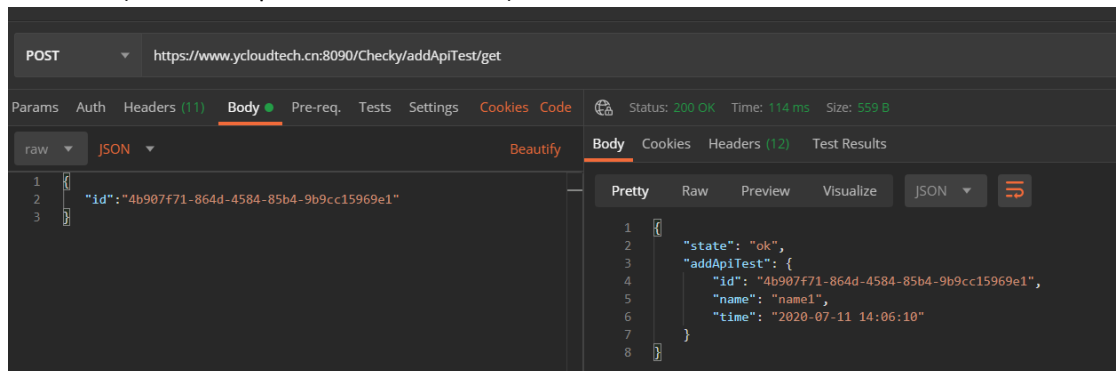
用户 add:



此后数据库:

1 结果	2 分析	3 信息	4 表数据	5 资料	6 历史
所有行 行的范围 首行: 0 100 行 刷新					
add_api_id	add_api_name	add_api_content	add_api_time		
4b907f71-864d-4584-85b4-9b9cc15969e1	name1	content1	2020-07-11 14:06:10		
(NULL)	(NULL)	(NULL)	(NULL)		

user 查询(注意 addApiTest 中名字、内容):



admin 查询(注意 addApiTest 中名字、内容):

