

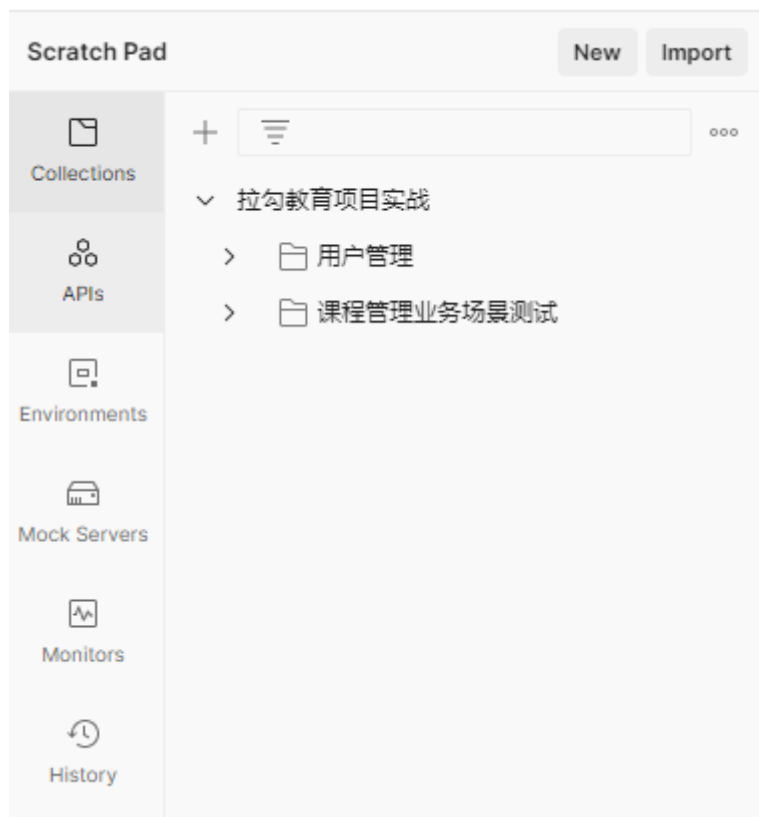
# Postman拉勾教育项目实战

## 1 拉勾教育接口测试流程

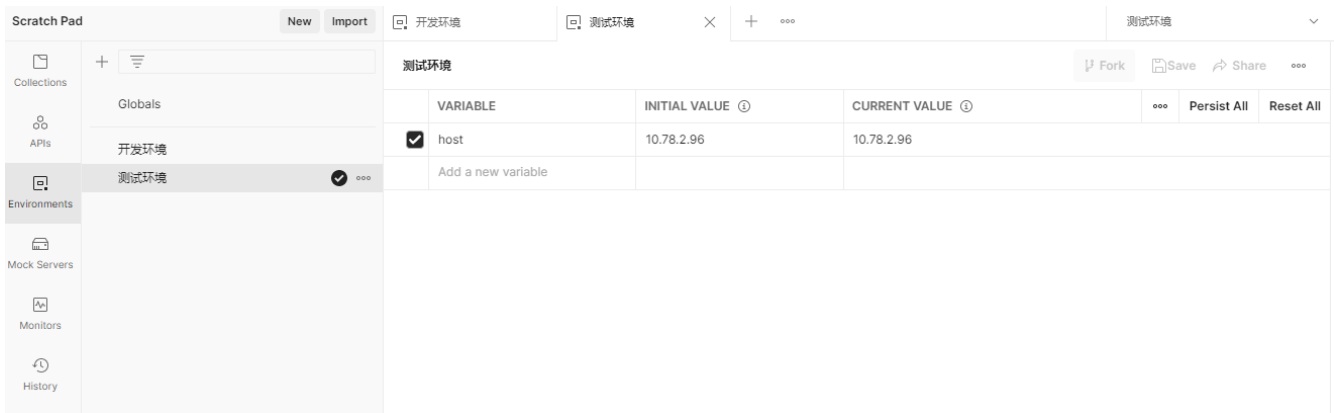
- 需求分析
- 开发提测拉勾教育接口测试
  - 提交拉勾教育安装和配置文件
  - 提交接口文档
- 搭建环境
- 编写测试用例
- 执行测试
- 提交跟踪和管理缺陷
- 接口测试报告

## 2 拉勾教育接口测试准备

### 2.1 新建用例集管理测试用例



### 2.2 添加环境变量

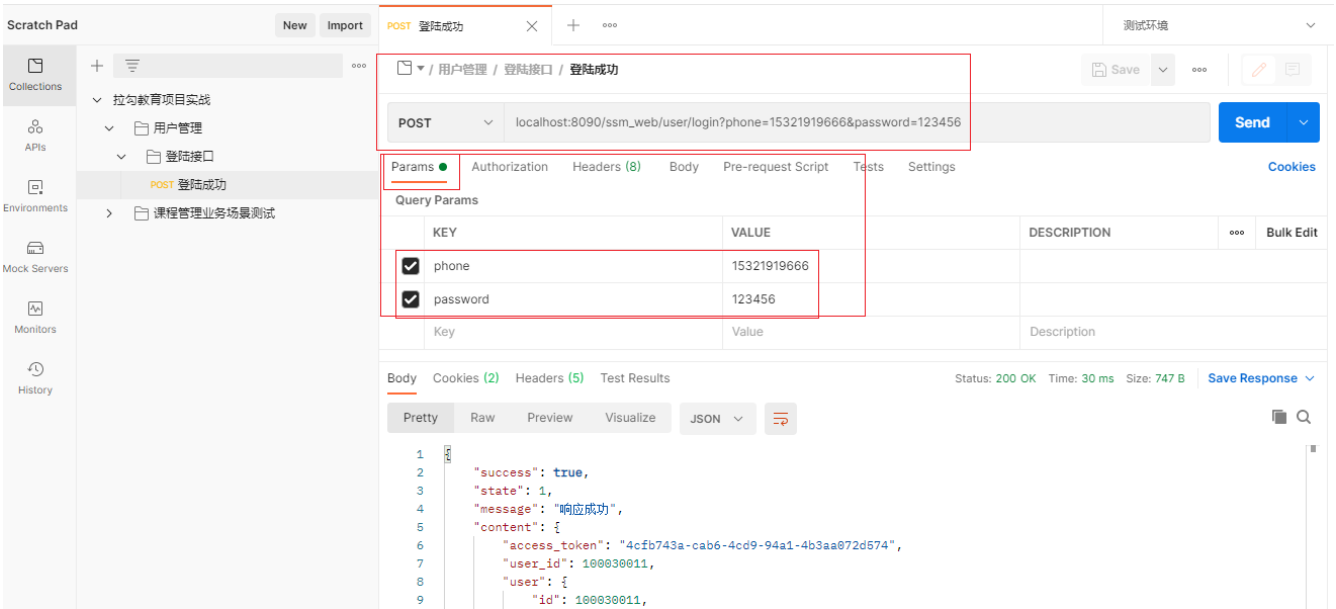


## 3 实现拉勾教育登录接口测试

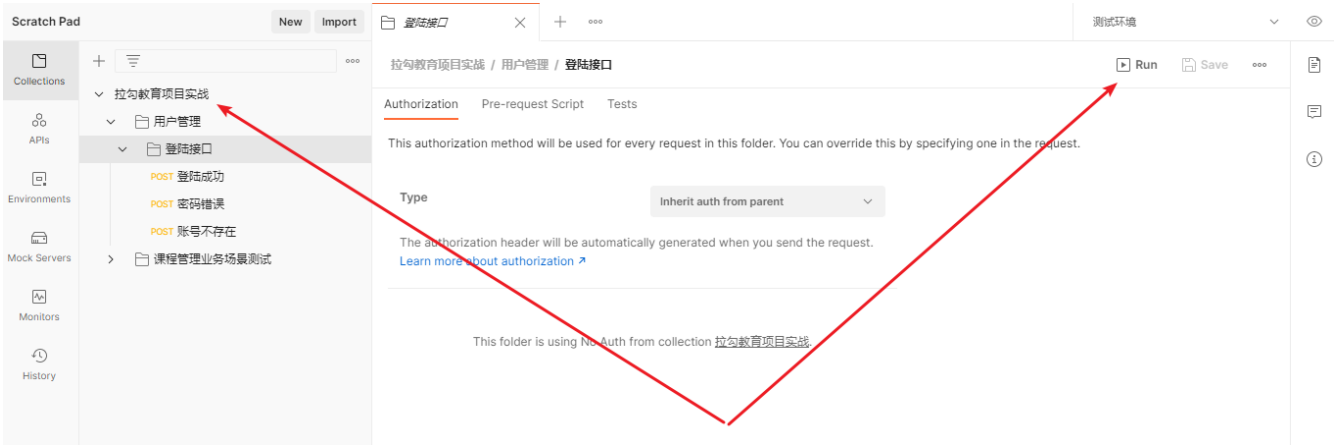
### 3.1 登录接口测试用例

编号	标题	模块	接口名称	请求方法	URL	请求头	请求数据	请求数据类型	预期数据
1	登录成功	拉勾教育	登录	POST	/ssm_web/user/login		查询参数: phone=15321919666 password=123456	x-www-form-urlencoded	{ "success": true, "state": 1, "message": "响应成功", "content": { "access_token": "e26d5ba4-24a4-455c-b683-8a11bc78053c", "user_id": 100030011, "user": { "id": 100030011, "name": "15321919666", "portrait": "https://edu-lagou.oss-cn-beijing.aliyuncs.com/images/2020/06/28/15933251448762927.png", "phone": "15321919666", "password": "123456", "reg_ip": null, "account_non_expired": null, "credentials_non_expired": null, "account_non_locked": null, "status": "DISABLE", "is_del": null, "createTime": 1594347555000, "updateTime": 1594347555000 } } }
2	密码错误	拉勾教育	登录	POST	/ssm_web/user/login		查询参数: phone=15321919666 password=error	x-www-form-urlencoded	{ "success": true, "state": 206, "message": "用户名密码错误", "content": null }
3	账号不存在	拉勾教育	登录	POST	/ssm_web/user/login		查询参数: phone=15121919666 password=123456	x-www-form-urlencoded	{ "success": true, "state": 206, "message": "用户名密码错误", "content": null }
4	账号为空	拉勾教育	登录	POST	/ssm_web/user/login		查询参数: phone= password=123456	x-www-form-urlencoded	{ "success": true, "state": 206, "message": "用户名密码错误", "content": null }
5	密码为空	拉勾教育	登录	POST	/ssm_web/user/login		查询参数: phone=15121919666 password=	x-www-form-urlencoded	{ "success": true, "state": 206, "message": "用户名密码错误", "content": null }
6	账号为null	拉勾教育	登录	POST	/ssm_web/user/login		查询参数: phone=null password=123456	x-www-form-urlencoded	{ "success": true, "state": 206, "message": "用户名密码错误", "content": null }
7	多参	拉勾教育	登录	POST	/ssm_web/user/login		查询参数: phone=15121919666 password=123456 aaa=123	x-www-form-urlencoded	{ "success": true, "state": 1, "message": "响应成功", "content": { ... } }
8	少参	拉勾教育	登录	POST	/ssm_web/user/login		查询参数: phone=15121919666	x-www-form-urlencoded	{ "success": true, "state": 206, "message": "用户名密码错误", "content": null }
9	无参	拉勾教育	登录	POST	/ssm_web/user/login				{ "success": true, "state": 206, "message": "用户名密码错误", "content": null }
10	错误参数	拉勾教育	登录	POST	/ssm_web/user/login		查询参数: mobile=15121919666 password=123456	x-www-form-urlencoded	{ "success": true, "state": 206, "message": "用户名密码错误", "content": null }

## 3.2 编写登录接口测试用例脚本



### 3.3 批量运行

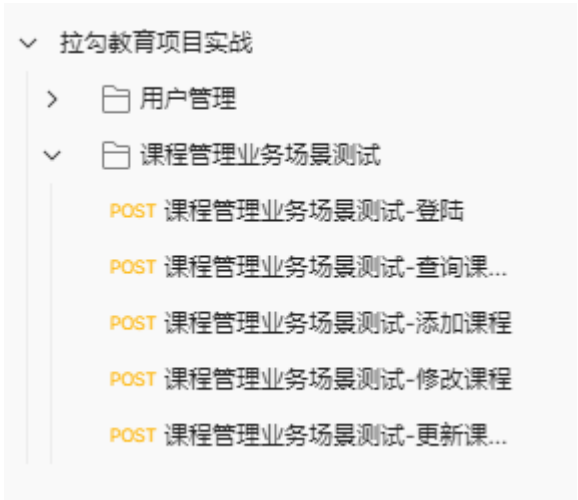


## 4 实现课程管理业务场景接口测试

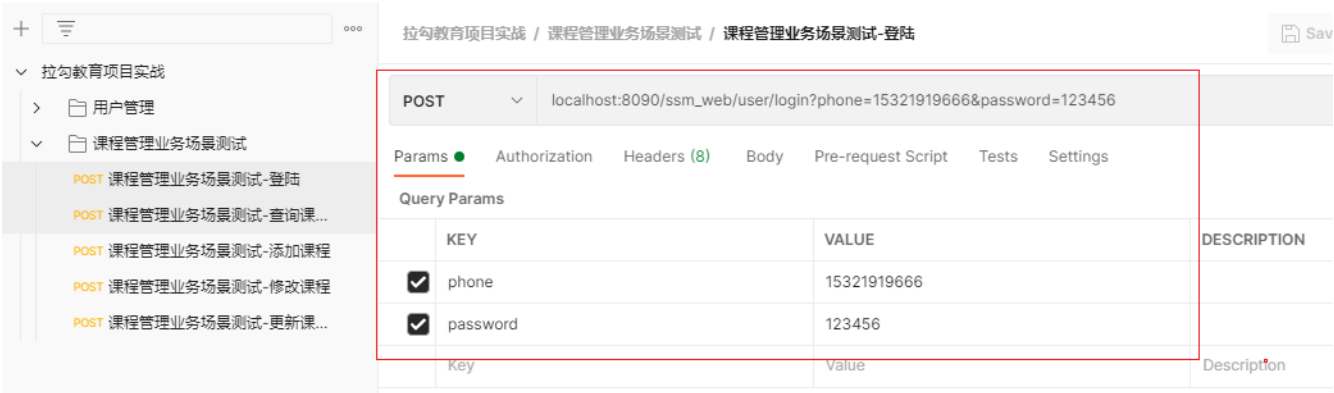
### 4.1 课程管理业务场景接口测试用例

编号	标题	模块	接口名称	请求方法	URL	请求头	请求数据	请求数据类型	预期数据
1	测试课程管理课程	拉勾教育	登陆	POST	/ssm_web/user/login		查询参数: phone=15321919666 password=123456	x-www-form-urlencoded	{ "success": true, "state": 1, "message": "响应成功", }
			查询课程列表	POST	/ssm_web/course/findAllCourse	Cookie("JSESSIONID":"FA36D8F677B83200C94D8B46495E697A")	{}	application/json	{ "success": true, "state": 200, }
			添加课程	POST	/ssm_web/course/saveOrUpdateCourse	Cookie("JSESSIONID":"FA36D8F677B83200C94D8B46495E697A"), Content-Type:application/json	{ "brief": "简介", "courseDescriptionMarkDown": "", "courseImgUrl": "", "courseListing": "", "courseName": "测试添加课程111", "discounts": 1, "discountsTag": "泰坦", "id": 1, "previewFirstField": "这是一个测试用视频", "previewSecondField": "这是一个测试用视频", "price": 1, "sales": 1, "sortNum": 1, "status": 1, "teacherName": "泰坦", "position": "讲师", "description": "讲师简介", "teacherDTO": {}, "activityCourse": false, "activityCourseDTO": {} }	application/json	{ "success": true, "state": 200, "message": "响应成功", "content": null }
			修改课程	POST	/ssm_web/course/saveOrUpdateCourse	Cookie("JSESSIONID":"FA36D8F677B83200C94D8B46495E697A"), Content-Type:application/json	{ "brief": "简介", "courseDescriptionMarkDown": "", "courseImgUrl": "", "courseListing": "", "courseName": "测试添加课程111", "discounts": 1, "discountsTag": "泰坦", "id": 1, "previewFirstField": "这是一个测试用视频", "previewSecondField": "这是一个测试用视频", "price": 1, "sales": 1, "sortNum": 0, "status": null, "teacherName": "泰坦", "position": "讲师", "description": "讲师简介", "teacherDTO": {}, "activityCourse": false, "activityCourseDTO": {}, "currentPage": 1, "pageSize": 10 }	application/json	{ "success": true, "state": 200, "message": "响应成功", "content": null }
			更新课程状态	GET	/ssm_web/course/updateCourseStatus?status=1&id=32	Cookie("JSESSIONID":"FA36D8F677B83200C94D8B46495E697A")			{ "success": true, "state": 200, "message": "响应成功", "content": { "status": 1 } }

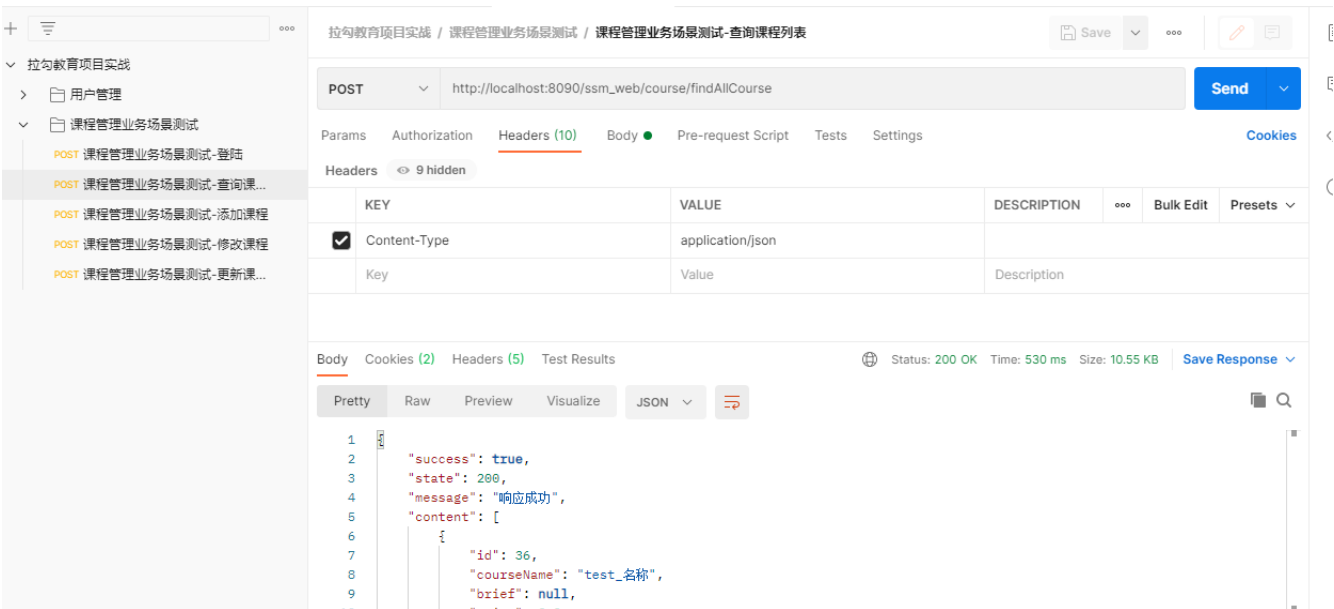
## 4.2 编写课程管理业务场景Postman脚本



### 4.2.1 登录



### 4.2.2 查询课程列表



### 4.2.3 添加课程

+

☰

...

拉勾教育项目实战

> 用户管理

> 课程管理业务场景测试

POST 课程管理业务场景测试-登陆

POST 课程管理业务场景测试-查询课...

POST 课程管理业务场景测试-添加课程 ...

POST 课程管理业务场景测试-修改课程

POST 课程管理业务场景测试-更新课...

拉勾教育项目实战 / 课程管理业务场景测试 / 课程管理业务场景测试-添加课程

Save

POST localhost:8090/ssm\_web/course/saveOrUpdateCourse

Params Authorization Headers (10) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   ... "brief": "简介",
3   ... "courseDescriptionMarkDown": "",
4   ... "courseImgUrl": "",
5   ... "courseListImg": "",
6   ... "courseName": "测试添加课程",
7   ... "discounts": "1",
8   ... "discountsTag": "泰坦",
9 }
```

Body Cookies (2) Headers (5) Test Results

Status: 200 OK Time: 549 ms Size: 30

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "state": 200,
4   "message": "响应成功",
5   "content": null
6 }
```

## 4.2.4 修改课程

✓ 拉勾教育项目实战

> 用户管理

> 课程管理业务场景测试

POST 课程管理业务场景测试-登陆

POST 课程管理业务场景测试-查询课...

POST 课程管理业务场景测试-添加课程

POST 课程管理业务场景测试-修改课程 ...

POST 课程管理业务场景测试-更新课...

拉勾教育项目实战 / 课程管理业务场景测试 / 课程管理业务场景测试-修改课程

Save

POST localhost:8090/ssm\_web/course/saveOrUpdateCourse

Params Authorization Headers (10) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   ... "brief": "修改后的简介",
3   ... "courseDescriptionMarkDown": "",
4   ... "courseImgUrl": "",
5   ... "courseListImg": "",
6   ... "courseName": "测试修改课程",
7   ... "discounts": "1"
8 }
```

Body Cookies (2) Headers (5) Test Results

Status: 200 OK

Pretty Raw Preview Visualize JSON

```
1 {
2   "success": true,
3   "state": 200,
4   "message": "响应成功",
5   "content": null
6 }
```

## 4.2.5 更新课程状态

拉勾教育项目实战

用户管理

课程管理业务场景测试

POST 课程管理业务场景测试-登陆

POST 课程管理业务场景测试-查询课...

POST 课程管理业务场景测试-添加课程

POST 课程管理业务场景测试-修改课程

POST 课程管理业务场景测试-更新课...

POSTlocalhost:8090/ssm\_web/course/updateCourseStatus?status=0&id=36

ParamsAuthorizationHeaders (8)BodyPre-request ScriptTestsSettings

Query Params

	KEY	VALUE	DESCRIP
<input checked="" type="checkbox"/>	status	0	
<input checked="" type="checkbox"/>	id	36	
	Key	Value	Descripti

BodyCookies (2)Headers (5)Test Results

Status: 200 OKTime:

PrettyRawPreviewVisualizeJSON

```
1
2  "success": true,
3  "state": 200,
4  "message": "响应成功",
5  "content": {
6    "status": 0
7  }
8
```

## 4.2.6 批量运行

Scratch PadNewImport

Collections

拉勾教育项目实战

用户管理

课程管理业务场景测试

POST 课程管理业务场景测试-登陆

POST 课程管理业务场景测试-查询课...

POST 课程管理业务场景测试-添加课程

POST 课程管理业务场景测试-修改课程

POST 课程管理业务场景测试-更新课...

APIs

Environments

Mock Servers

Monitors

History

课程管理业务场景...

RunSave

拉勾教育项目实战 / 课程管理业务场景测试

AuthorizationPre-request ScriptTests

This authorization method will be used for every request in this folder. You can override this by specifying one in the request.

TypeInherit auth from parent

The authorization header will be automatically generated when you send the request.

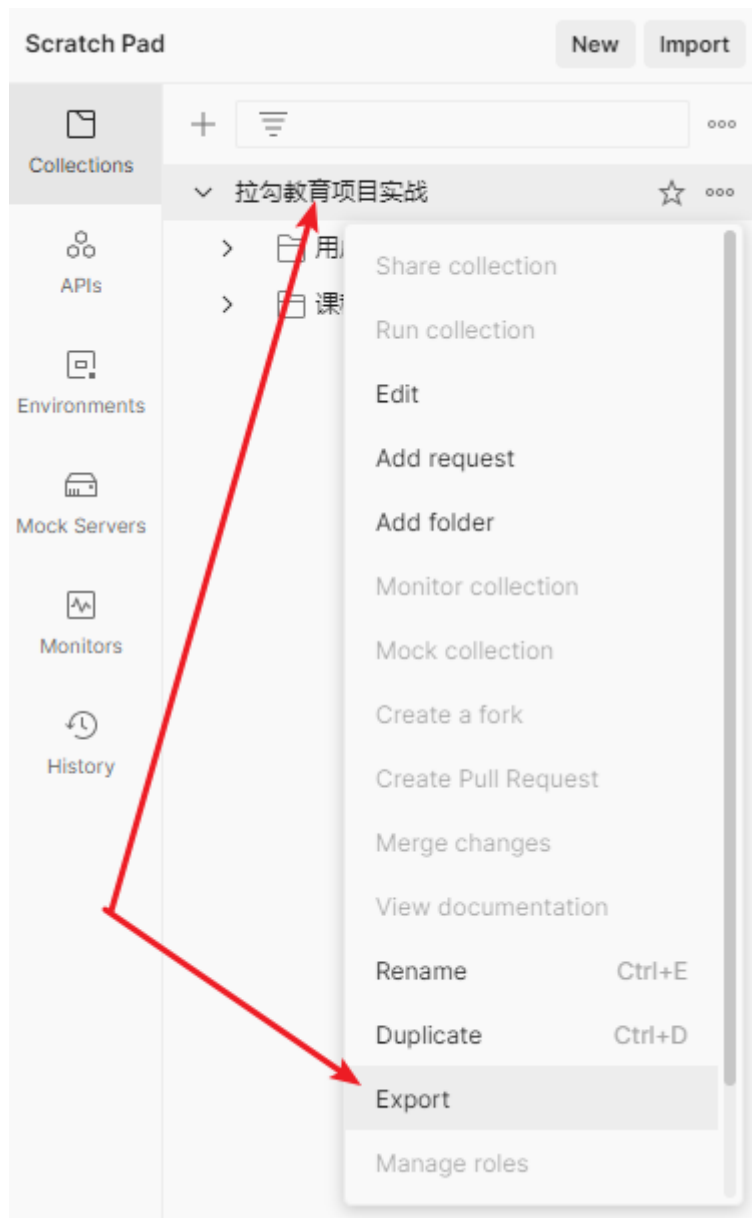
Learn more about authorization

This folder is using No Auth from collection 拉勾教育项目实战

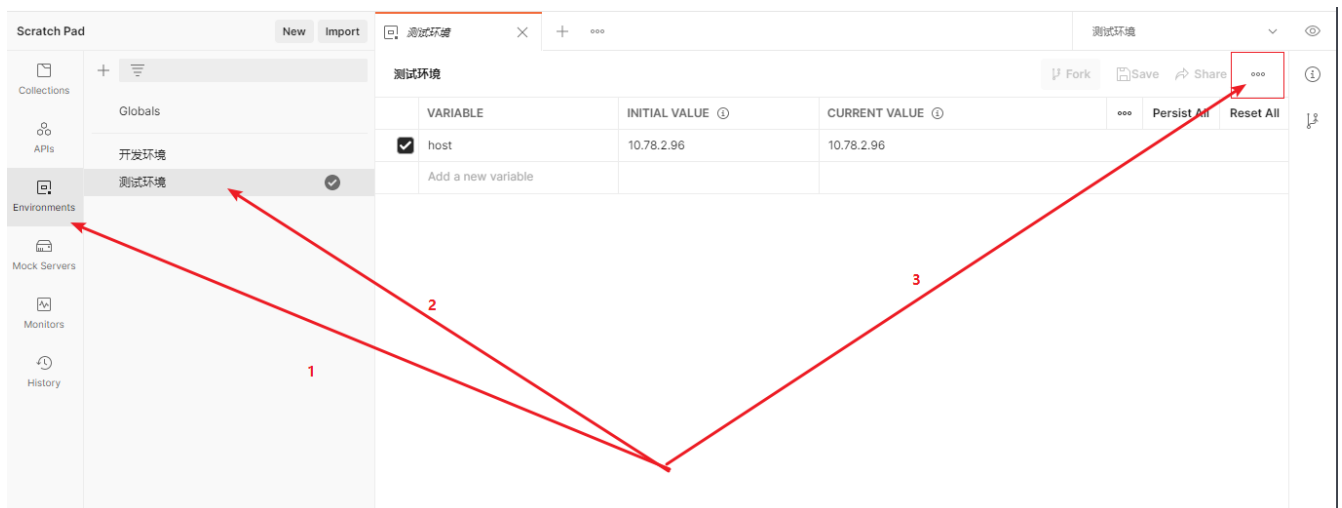
## 5 生成测试报告

### 5.1 导出用例集和环境文件

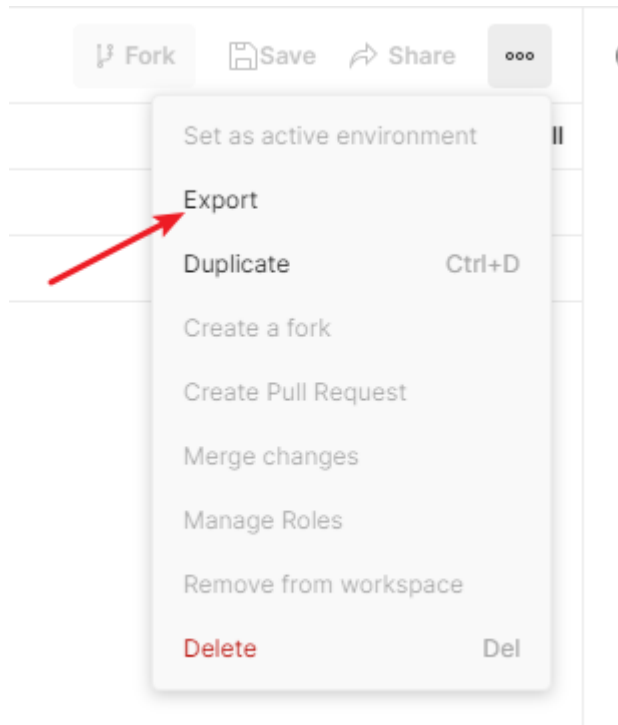
导出用例集



## 导出环境文件







导出的成果：

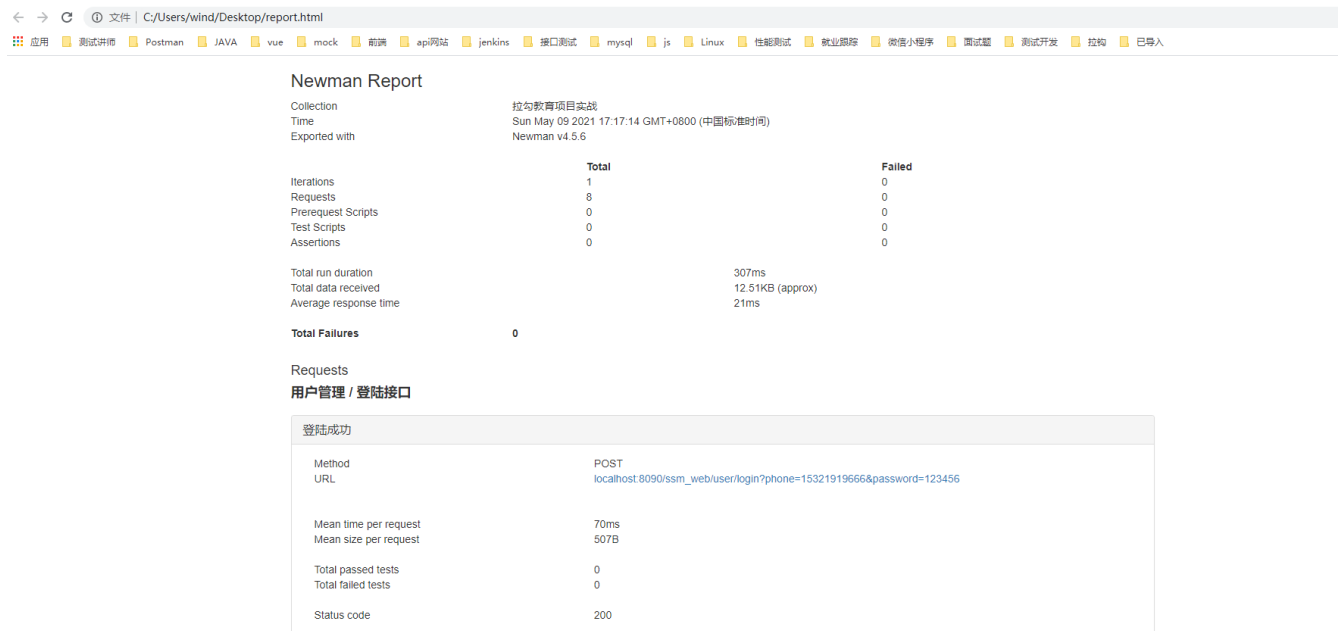


## 5.2 编写newman命令生成测试报告



```
newman run "C:\Users\wind\Desktop\拉勾教育项目实战.postman_collection.json" -e  
C:\Users\wind\Desktop\测试 环境.postman_environment.json -r html --reporter-html-export  
report.html
```

查看生成的报告

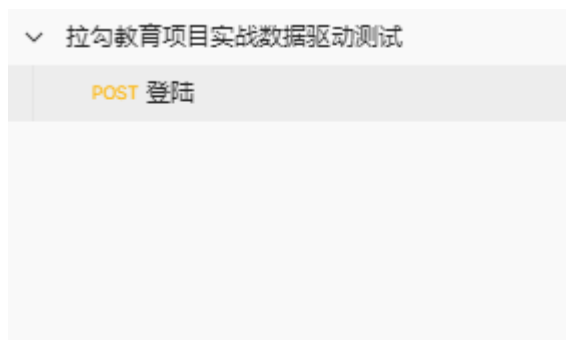


## 6 数据驱动

接口测试数据驱动应用场景：由于Postman一次只能导入一个数据文件，所以实现数据驱动时，一般一个用例集只放一个接口。如果存放多个接口在同一个用例集时，会导致数据文件过于庞大，不容易维护。

并且，如果一个用例集中，有ABC3个接口，其中A接口的数据是变化的，而BC不变。那么由于Postman没有实现控制BC粒度的方法，所以只能整体对ABC所在的用例集实现数据驱动，不能单独对A接口实现数据驱动测试

### 6.1 创建用例集



### 6.2 设计数据文件

CSV数据文件

```
login_data.csv login_data.json
1 phone,password,success,message
2 15321919666,123456,true,响应成功
3 ,123456,true,用户名密码错误
4 null,123456,true,用户名密码错误
5 15321919666,,true,用户名密码错误
6
```

JSON数据文件

```
login_data.csv login_data.json
1 [
2   {"phone":"15321919666", "password":"123456", "success":true, "message":"响应成功"},
3   {"phone":"", "password":"123456", "success":true, "message":"用户名密码错误"},
4   {"phone":null, "password":"123456", "success":true, "message":"用户名密码错误"},
5   {"phone":"15321919666", "password":"", "success":true, "message":"用户名密码错误"}
6 ]
```

## 6.3 关联

### 6.3.1 关联请求数据

+

拉勾教育项目实战数据驱动测试 / 登陆

Save

拉勾教育项目实战

拉勾教育项目实战数据驱动测试

POST 登陆

POST

localhost:8090/ssm\_web/user/login?phone={{phone}}&password={{password}}

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Query Params

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	phone	{{phone}}	
<input checked="" type="checkbox"/>	password	{{password}}	
	Key	Value	Description

login\_data.csv login\_data.json

1 [
2 {"phone":"15321919666", "password":"123456", "success":true, "message":"响应成功"},
3 {"phone":"", "password":"123456", "success":true, "message":"用户名密码错误"},
4 {"phone":null, "password":"123456", "success":true, "message":"用户名密码错误"},
5 {"phone":"15321919666", "password":"", "success":true, "message":"用户名密码错误"},
6 ]

### 6.3.2 关联断言数据

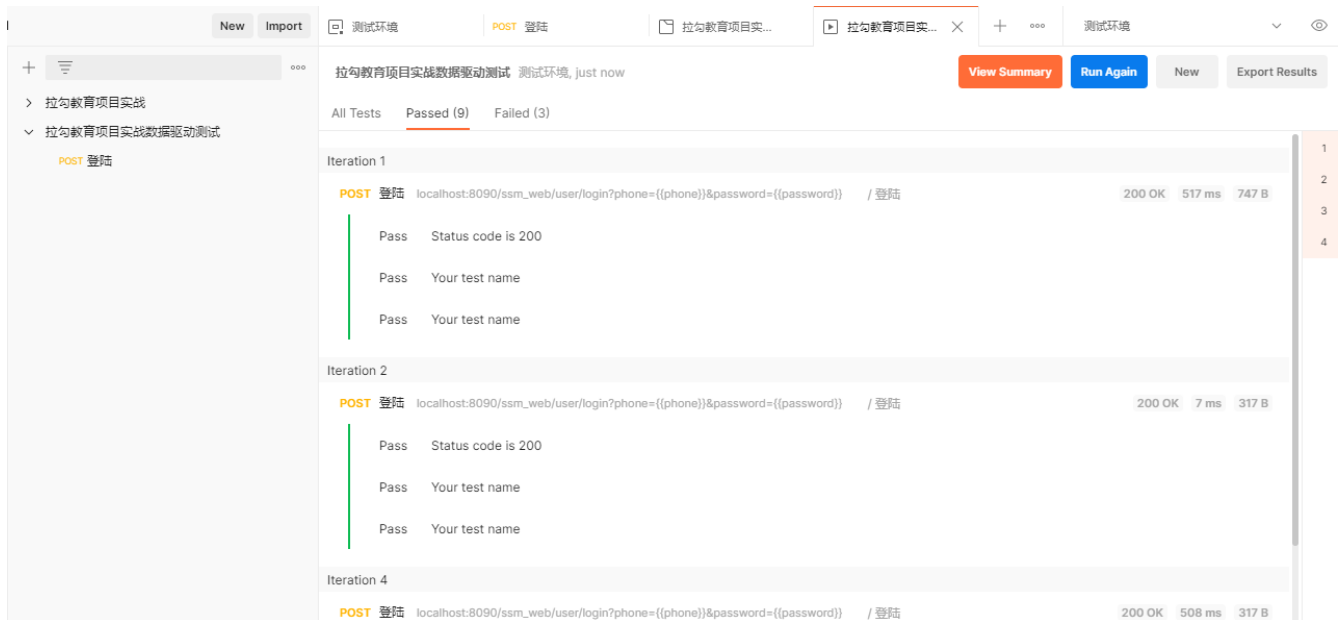
The screenshot shows the Postman interface for a collection named "拉勾教育项目实战数据驱动测试 / 登陆". The request is a POST to "localhost:8090/ssm\_web/user/login?phone={{phone}}&password={{password}}". The "Tests" tab is active, showing a script with assertions for status code 200, success, and message. A red arrow points from the "success" field in the test script to the "success" field in the JSON data in the "login\_data.json" file. The "login\_data.json" file contains an array of test data:

```
1 [{"phone": "15321919666", "password": "123456", "success": true, "message": "响应成功"},  
2 {"phone": "", "password": "123456", "success": true, "message": "用户名密码错误"},  
3 {"phone": null, "password": "123456", "success": true, "message": "用户名密码错误"},  
4 {"phone": "15321919666", "password": "", "success": true, "message": "用户名密码错误"},  
5 }]
```

## 6.4 使用Runner运行

The screenshot shows the Postman Runner interface. The "Run" button is highlighted with a red box. A red arrow points from the "Run" button to the "login\_data.json" file in the previous screenshot, indicating the data source for the test run. The interface also shows the "Authorization" tab and a message stating "This collection does not use any authorization".

查看结果



## 6.5 使用newman运行

```
C:\Windows\System32\cmd.exe
Microsoft Windows [版本 10.0.17134.1069]
(c) 2018 Microsoft Corporation。保留所有权利。

C:\Users\wind\Desktop>newman run "C:\Users\wind\Desktop\拉勾教育项目实战数据驱动测试.postman_collection.json" -e "C:\Users\wind\Desktop\测试环境.postman_environment.json" -d "C:\Users\wind\Desktop\login_data.json" -r html --reporter-html-export report2.html

C:\Users\wind\Desktop>_
```

```
newman run "C:\Users\wind\Desktop\拉勾教育项目实战数据驱动测试.postman_collection.json" -e
"C:\Users\wind\Desktop\测试环境.postman_environment.json" -d
"C:\Users\wind\Desktop\login_data.json" -r html --reporter-html-export report2.html
```

应用测试讲师PostmanJAVAvuemock前端api网站jenkins接口测试mysqljsLinux性能测试就业跟踪微信小程序面试题测试开发拉钩已导入

Newman Report

Collection拉勾教育项目实战数据驱动测试

TimeSun May 09 2021 17:43:34 GMT+0800 (中国标准时间)

Exported withNewman v4.5.6

Iterations4

Requests4

Prerequisite Scripts0

Test Scripts4

Assertions12

Total4

4

0

4

12

Failed0

0

0

0

0

Total run duration202ms

Total data received738B (approx)

Average response time21ms

Total Failures0

Requests

登陆

MethodPOST

URLlocalhost:8090/ssm\_web/user/login?phone=15321919666&password=123456

Mean time per request21ms

Mean size per request185B

Total passed tests12

Total failed tests0

Status code200

Tests

Name	Pass count	Fail count
Status code is 200	4	0
Your test name	8	0

## 6.6 注意事项

- 保存 保存 保存
- 使用newman运行用例集前，先用runner运行通过后，再重新导出文件，使用newman运行