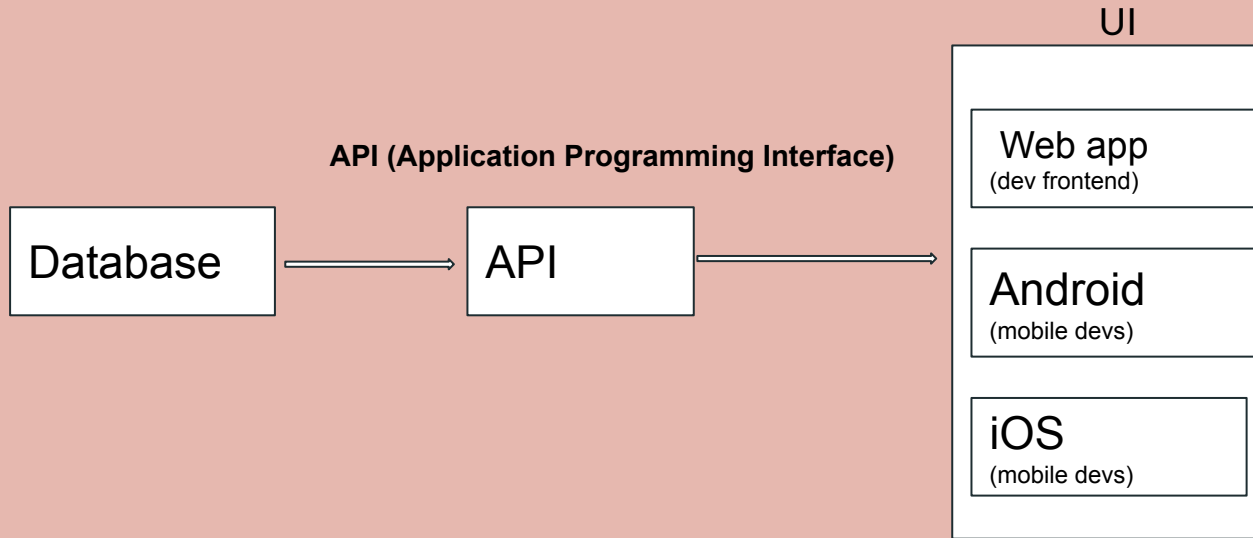


API Testing

1. Why do we need to do API testing?
2. API elements
3. HTTP status code
4. Tools
5. Practice
6. Review day 6
7. Project tasks & Interview questions

Review day 6

1. Why do we need to do API testing?





2. API elements

Request

Raw	Params	Headers	Hex
-----	--------	---------	-----

```
POST /comment.php HTTP/1.1
Host: testphp.vulnweb.com
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:74.0)
Gecko/20100101 Firefox/74.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en,vi-VN;q=0.8,vi;q=0.5,en-US;q=0.3
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 100
Origin: http://testphp.vulnweb.com
Connection: close
Referer: http://testphp.vulnweb.com/comment.php?aid=2
Cookie: login=test12ftest
Upgrade-Insecure-Requests: 1

name=%3Cyour+name+here%3E&comment=nhantcomment&Submit=Submit&phaction=cho%24_POST%5Bcomment%5D%3B
```

Response

Raw	Headers	Hex	HTML	Render
-----	---------	-----	------	--------

```
HTTP/1.1 200 OK
Server: nginx/1.4.1
Date: Wed, 11 Feb 1970 01:49:19 GMT
Content-Type: text/html
Connection: close
X-Powered-By: PHP/5.3.10-1-lucid+2uwsgi2
Content-Length: 565

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<title>
<your name here> commented</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<style type="text/css">
<!--
body {
    margin-left: 0px;
    margin-top: 0px;
    margin-right: 0px;
    margin-bottom: 0px;
}
-->
</style>
<link href="style.css" rel="stylesheet" type="text/css">
</head>
<body>
<p class='story'><your name here>, thank you for your comment.</p><p class='story'><i></p></i></body>
</html>
```

Request

Raw Params Headers Hex

```
POST: insecure meothd /userinfo.php: path traversal/idor HTTP/1.1: out of date
Host: testphp.vulnweb.com: open redirection, original source...
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:72.0) Gecko/20100101 Firefox/72.0
command injection
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en,vi-VN;q=0.8,vi;q=0.5,en-US;q=0.3
Content-Type: application/x-www-form-urlencoded: malware, file extention
Content-Length: 31
Origin: http://testphp.vulnweb.com: SOP, CORS...
Connection: close
Referer: http://testphp.vulnweb.com/login.php:...
Upgrade-Insecure-Requests: 1
```

```
uname=fdgdgdgdg: xxs, sqlinject&pass=gfdgfdgfdg: databalse, source...
```

Response

Raw Headers Hex

```
HTTP/1.1 302 Found
Server: nginx/1.4.1
Date: Sat, 08 Feb 2020 02:11:26 GMT
Content-Type: text/html
Connection: close
X-Powered-By: PHP/5.3.10-1~lucid+2uwsgi2
Location: login.php
Content-Length: 14
```

you must login

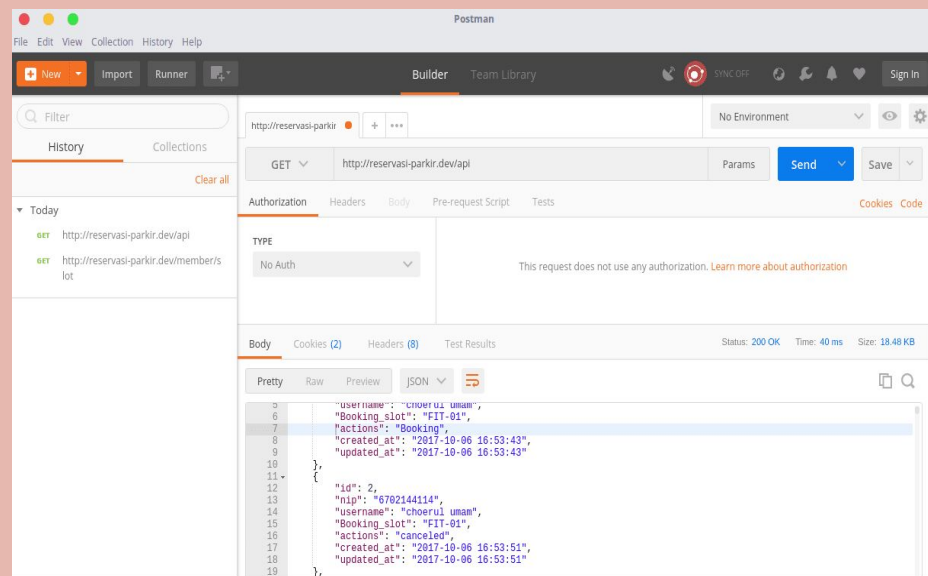
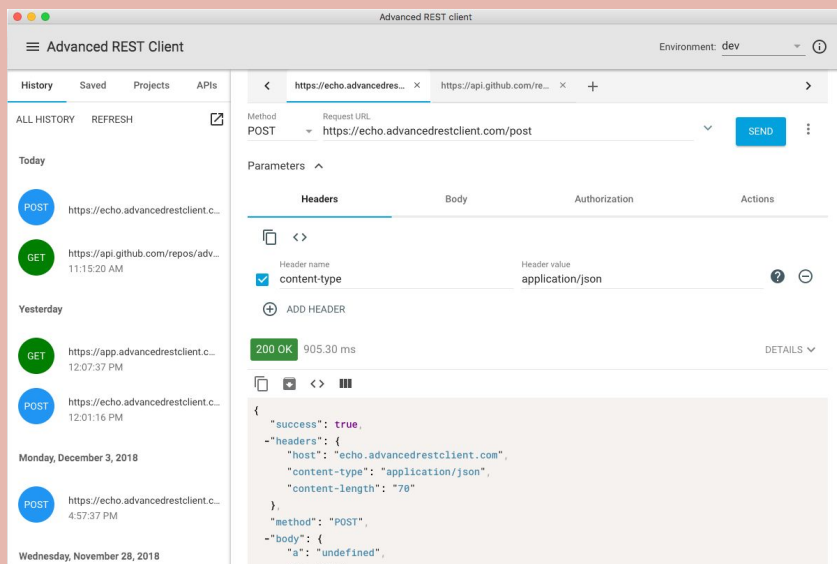
1	REQUEST	Method	GET	READ	lấy ra	
2			POST	CREATE	thêm mới	
3			PUT	UPDATE	sửa thông tin	
4			DELETE	Delete	xóa	
5		URL		=> CRUD		
6		REQUEST BODY				
7	RESPONSE	Status code	Response code			
8			Response message			
9		Response body				
10						
11						

3. HTTP status code

HTTP Status Codes		
Level 200 (Success) 200 : OK 201 : Created 203 : Non-Authoritative Information 204 : No Content	Level 400 400 : Bad Request 401 : Unauthorized 403 : Forbidden 404 : Not Found 409 : Conflict	Level 500 500 : Internal Server Error 503 : Service Unavailable 501 : Not Implemented 504 : Gateway Timeout 599 : Network timeout 502 : Bad Gateway

4. Tools

- Rest client
- Postman



5. Practice

<https://reqres.in/>

- Register
- Login
- List of user
- Create user

5. Project tasks & Interview questions

1. What is api?
2. Why do we need to do api testing?
3. What is http status code?
4. How many parts of API?

Project tasks

Execute test APIs:

<https://regres.in/>

- Register
- Login
- List of user
- Create user
- Update user

Sprint 4:

1. Write test case: list of product
2. Execute test: mobile app and log bug to Jira
3. Review test case and bug for other team

Review result will be note on a column,
reported to author => author review comment
then update TCs/bugs