**API INTERWIEV QUESTIONS**

**1---**What is the api and why use it ?

* It is the structure that connects two applications. And it allows communication
* It is the structure that enables information sharing.

2---What are the rest and soap ?

REST : The structure we use while creating the API

* Moves to value JSON types and XML types and TXT types
* More dynamic structure is created

SOAP : One of the methods we use to create a web service

* Moves to value just XML types
* It is more reliable and it does not complex structure .it is a simple structure

3----What is the postman tool and why use it ?

* We use it to test APIs manually
* We can connect API adress we want by choosing a method
* We can add a parameter that we want

4---What is the HTTP and What are the methods ?

* It is a structure by which we want connect to any web site
* It is a protocol that enables comminication between surver and browser

GET :We use it for bring data and result

POST : We use it for send data

PUT : We use it for upgrade data

DELETE : We use it for delete data

**5---How do you plan while testing the API ?**

We connection to any web site and we can match expected result and actual result

SETUP –We complete installation procedures

If there is data , we prepare them

We test APIs manually

EXECUTE : API connection

We start process by making API connection to the adress

VERIFICATION : Control and verify

Are the results the same as what we want ..

REPORTING : Reporting the status

**6---What are the differences between API TEST and UNIT TEST ?**

**API :** Since we can’t see the background code, it can be called ‘Black Box Test ‘

QA Team does it

**UNIT :** Developer can see all codes , so it can be called ‘White Box Test’

DEV-Team does it

**API :** Tests the whole system

**UNIT :**Only necessary parts are tested

**API :** Connection permission maybe required

**UNIT :** Developer builds it and is test that time

**7---What information do we test in API TESTING ?**

* We can test to datas
* We can test status code
* We can test speed
* we can test authorization
* We can test error codes

**8---What are the status codes and Can you explain them?**

These are the codes we get when we make a request

There are 5 codes

1xxx 🡺for information

2xxxx🡺Success

3xxx🡺Redirection

4xxx🡺Client Error

5xxx🡺Server Error

400🡺Bad Request 401🡺Unable to Login 404🡺Not Found page

**9----How to API Testing with Cucumber and Test NG ?**

We use to Rest Assured Library

RestAssured.baseUrl = “ “

RequestSpecification request=RestAssured.given();

**10----How to add data to ‘’body’’ when connceting to API with RestAsuured ?**

Firstly we should add ‘’Json.simple ‘’ library in the pom xml .

JSONObject data=new JSONObject(); =🡺for create jsonObject

data.put(“ “);

**11---How to verify the data in the “Headers “ section of the response ?**

Firstly we create response Object then

response.headers().toString();

response.headers().get(“ any data name “).getValue(); =🡺just give one data value

**12-----What is the JSON ?**

JSON : Java Script Object Notation

Object creation format in the Java Script and use to information exchange

**13----What are the PUT and PATCH and What is the differences betwenn ?**

They are HTTP methods and for use to update

PUT : It updates all data

PATCH : it updates the part

**14----Can the GET Method be used instead of the POST Method ?**

Yes it can be used that but there is not ‘body’ in the GET method , it send data as a parameter. So this sitution is not reliable .

/api/kullanici?isim=filiz&sifre=123 🡺example for parameter

In the POST Method , send data in inside ‘body’ , so it is more reliable than GET Methods

Api/kullanici

Body isim🡺filiz

Sifre🡺123

**15----What is the CACHE ?**

Where we stored the data we have a special time …