**API(Application Programming Interface):-**

* Native API and FHIR API
* Native is not having specific standard. We can change according to our feasibility.
* FHIR is having specific standard. We cant change according to our feasibility. We must follow the standards.
* Request from client and response from server.

Soap- XML(**extensible markup language)(Oudated)**

Rest- JSON(**JavaScript Object Notation)(Updated)**

Status Codes:-

401:- Unauthorised Token

406:- Not Acceptable

422:- Unprocessable Entry

200:- OK(Get,PUT)

201:- Created(POST,PUT)

404:- Not Found

400:- Bad Request

500:- Internal server error(When Server is down)

**Response Codes:-**

Post:- 201,Created

Put:- 200, OK. 201, Created.

Get:- 200, OK

**API Methods:-**

Post(Create):- Creation of data

Put(Create, Update):- creation and updation of data.

Get(Retrieve from server):- To retrieve the data.

Delete(Deleting data):- To delete the Data.

Patch(Small updation of data):- Updation of small amount of data in server.

Batch(performing collection of methods):- Group of all calls(Methods).

**Mapping Cardinality:-**

0..\* :- Optional(either 0 or multiple)

0..1:- max one. If we don’t give also there is no problem.

1..1:- minimum is one and maximum one

1..\*:- minimum one and maximum n.

* Mostly time will be in the UTC(Universal Time Format) Format in API
* We need to check the formats ,Data and Data types.
* In headers content-type is mandatory for Put and post methods
* Accept is one of the header.

Headers :-

[{"key":"Accept","value":"application/json+fhir","description":""},

{"key":"Content-Type","value":"application/json+fhir","description":""},

{"key":"Authorization-token","value":"213,147,25,247,121,96,247,25,148,72,137,228,70,73,147,182,136,26,216,234,196,76,221,110,100,101,26,244,52,136,47,26,25,214,204,177,46,89,12,17,140,89,102,154,20,46,204,198,218,47,22,252,5,255,226,220,160,162,231,187,162,119,234,192,60,189,38,2,140,28,251,60,254,105,24,29,202,214,223,165,102,192,41,69,134,167,114,2,222,34,79,58,26,31,201,18,171,16,17,188,86,158,252,147,53,177,240,168,181,153,251,39,91,229,250,116,170,9,55,77,196,138,67,93,182,111,123,101,190,220,92,200,225,153,51,142,176,221,3,74,77,121,89,4,134,11,198,90,87,41,65,48,249,19,145,194,217,148,29,15,147,116,141,81,66,84,152,226,154,84,234,81,137,131,214,17,2,122,158,126,142,120,229,86,59,174,178,165,55,116,129,212,227,46,132,176,77,100,110,96,249,87,181,82,207,173,205,237,51,85,76,0,180,211,102,72,23,60,234,200,91,2,169,135,8,232,208,253,199,214,22,56,53,250,108,202,223,121,228,102,242,26,138,70,226,45,72,236,232,63,105,99,109,165,145,1,64,45,112,196,161,253,0,195,174,92,218,47,80,168,85,233,235,78,15,151,203,45,248,252,152,61,165,115,90,175,69,168,147,201,231,23,232,165,41,244,125,167,125,91,183,253,161,119,238,44,159,156,218,78,186,137,95,65,13,153,92,123,214,33,126,90,69,11,133,38,79,229,70,52,129,170,98,95,153,119,147,123,179,131,0,181,234,102,148,10,106,224,206,197,153,11,177,120,46,254,66,245,250,81,2,97,23,245,210,124,230,170,185,204,113,202,64,51,200,17,0,137,178,66,89,77,226,206,247,225,222,70,68,18,32,16,9,238,170,47,188,162,18,71,113,164,94,164,141,67,2,18,140,212,148,39,101,151,237,165,6,168,157,194,158,93,139,11,141,250,186,82,243,85,78,107,173,19,9,34,230,65,55,110,147,168,236,173,227,219,181,138,238,223,39,143,32,99,194,178,56,129,12,162,168,19,14,229,113,230,54,101,168,254,161,170,215,77,77,237,25,5,204,40,156,210,177,53,186,97,216,70,136,181,178,218,63,206,86,32,26,67,191,39,190,163,175,221,134,244,5,22,3,73,28,104","description":""}]

**Interview Questions:-**

1. Status Codes
2. How to test API
3. What is API
4. What kind of headers we use(Content Type, Accept, Autherization)
5. HTTP Headers methods(Get, PUT, Post, Delete, Patch)
6. Without UI can we test API.