**Server Quiz**

**1)What are the HTTP methods?**

Our four famous HTTP Method are:

GET, POST, PUT, DELETE.

**2)What are the differences between them?**

**GET Method**

We use GET method to fetch data from server. This method don’t have or require datas in her body. This method is take datas from it. We can say that GET method is safe method because we are only fetching data ad not changint it. The other method we call them unsafe methods because they can modify datas and deleting them.

**POST Method**:

We use the POST method to add or create a datas in a database by using his body to enter the datas. This method is not idempotent because if we try this method more then time the server will give us an error. And this is the difference between POST and PUT.

**PUT Method**:

We use the Put method to modify datas in database without causing any harms to the server. This method is idempotent.

**DELETE Method**:

We ue DELETE method to delete datas. This method is idempotent.

**3)What is JSON format?**

**As definition, JSON is JavaScript object notation. It is simply a format where we can transfer datas from server to client and from client to server.**

**We use json format because we only want datas from server as a response after we have already sent our request. For example if we are using a mobile application we have our design build we onlt need our datas so we have to have the as datas hot as html form for example so we need a format to provide these datas for us and this format in JSON. Moreover we use this format because it can handle complex datas as object. For example we can have our response datas as Text Format because we won’t able to destructure them and use each info in her right place.**

**4)What are the headers and body in the post call?**

**Headers:** they are responsible for specific imformations for the request. We can specify the cintent type or format. In our case we are using JSON so we chose for Content-Type 🡺 application/json.

We can also specify the authentications for the request.

Body: in the body we pass the datas that we want to transfer it from the client to the server in the desigred format (JSON)

**5)What is the "all" method in express routing?**

The all method is express routing is used for merging all http methods in one method that take two parameters the path and the callback Function

**6)What are the res and req? and how are they useful?**

The request is the data requested from client to the server. I t can be two types. It can be fetching data request where client want datas from server and sending this request to it or it can be a modifier request where the client pass datas to the server (creating or updating or deleting) by sending this request.

The response is the feedback from the server to the client after each request. For example if we want to fetch datas from server we sen a request to it and the datas will be in the response as JSON file.