**HTTP**

Hyper Text Transfer protocol

Common language for communicating between client and server

Communicate to outside world through request and response

Browser – HTTP client sending request

GET , POST ,PUT ,DELETE – just four words in this language

GET – get html file from server

POST – add data in to server

PUT – update data into server

DELETE – delete data in the backend

Can also be used to fetch documents, photos, videos etc. (Communicate with servers)

Response -> messages and documents // look for different kinds of messages in w3schools

Sending data to the server:

through

1. query strings/**GET** request(key and values)

[file:///F:/gitrepo/http/RegistrationForm.html**?firstname=&lastname=&psw=&**](file:///F:/gitrepo/http/RegistrationForm.html?firstname=&lastname=&psw=&)**email=&submit=register**

1. body / **POST** request

Information attached to form body

HTTPS:Hyper Text Transfer Protocol Secured: data/information in some other form

**JSON**

When exchanging data between browser and server, the data can only be text.

Server can be of any language

JSON -> JavaScript Object Notation

Syntax for storing and exchanging data (also xml can be used but outdated)

JSON is text, written with JavaScript object notation

Json can be read by any language

Working:

JSON.stringify(user); // user is a js object

Converted into json string and it is sent to server where it uses JSON.parse(user);

JSON.parse(money) // money – data from server

Server returns data that is parsed to get the data.

**AJAX**

Ajax is a technology that allows you to read from web server after the webpage is loaded and update a webpage without reloading the page and finally send the data in the background while the user is interacting with the website

In react : using ***fetch***

fetch(‘/my/ url) .then(response => {

console.log(response);

});

*Code returns promise. if it returns promise , use ‘then’ function*

Ajax – change content dynamically

fetch('https://jsonplaceholder.typicode.com/users').then(response =>response.json()).then(data => console.log(data));

ajax call – fetch here

Ajax – make single page application using ajax .

ajax is a combination of tools – using fetch api , using http , using json to communicate with servers