Experiment No. 2

Title :- HTML, CSS, JavaScript

Objectives :-

1. Understand about basic concept of JavaScript.
2. Understand the basic concept of AJAX.

Problem Statement :-

Write a JavaScript program to get the user registration data and push to array / local storage with AJAX POST method and data list in new page.

Outcomes :-

Student will be able to -

1. Design responsive webpage using HTML.
2. Apply Validations using JavaScript.

Software Requirement :-

Notepad, Browser, Visual Studio Code

Theory :-

Javascript - Javascript (JS) is the most popular lightweight, interpreted complied program language. It Can be used For both Client - Side as well as Serveral -Side developments. Javascript also known as a scripting language for web page.

Reason to learn Java script -

Javascript is used by developers and the number in incresing day by day. Javascript is one Such proghamming language that has more than 1444231 libraries and increasing rapidly. It is preffered over any other proghamming language by most developers.

How Javascript makg HTML build webside better ?

• Java Script is on advanced proghamming language that make web page more interactive and dynamic wherecs HTML is a Standard makeup language that provide the primary Structure OF website.

- Javascript simply add dynamic Content to website to make them look good and HTML Work on the look of the Website without the interactive effects and all.

- Javascript is not cross-browser Compatible where as HTML is Cross-browser Compatible.

- Javascript Can be embeded inside HTML but HTML Can not be embedded inside Javascript.
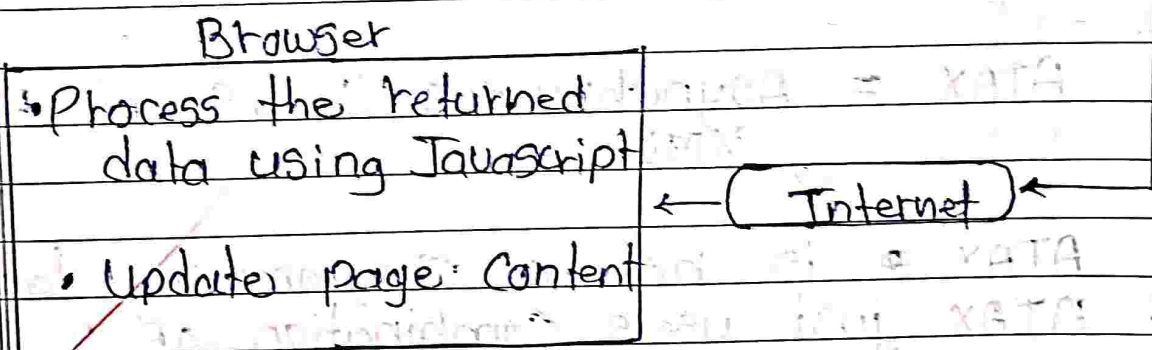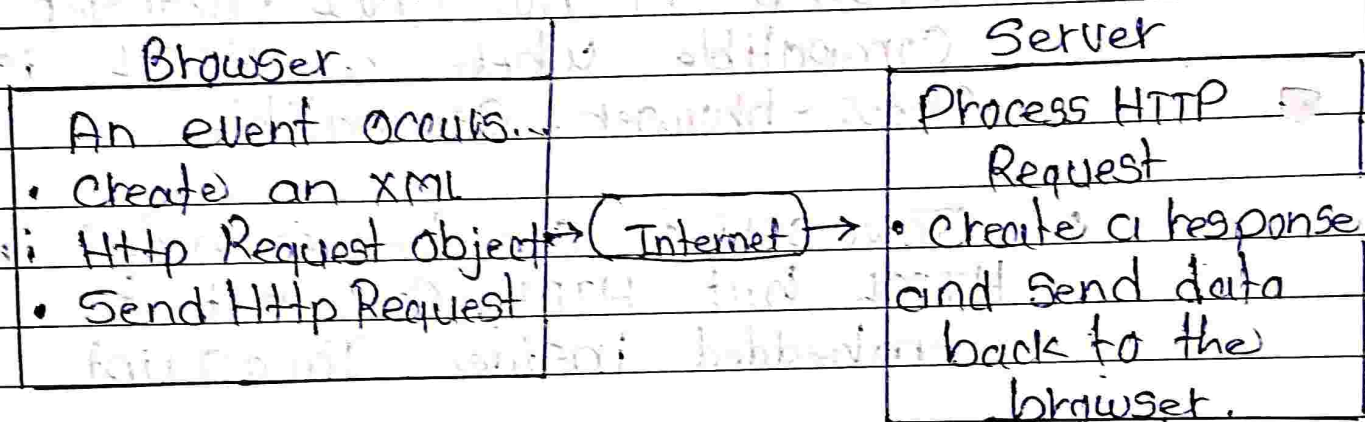
What is AJAX.

AJAX = Asynchronous JavaScript And XML.

AJAX is not a programming language. AJAX just users Combination oF :

- A browser built-in XML Http object
- Javascript and HTML DOM

AJAX is a misleading name. AJAX application might use XML to transport data, but it is equally Common to transport data as plain text or JSON text.

AJAX allow web pages to be updates asynchronous by exchaninging data with a web server behind the sence.

How AJAX Works

Browser		Server
• An event occurs.		Process HTTP Request
• Create an XML		
• Http Request object → (Internet) →		• Create a response and Send data back to the browser.
• Send Http Request		

Browser	
• Process the returned data using Javascript	
	← (Internet) ←
• Update page Content	

- 1. An event occurs in a web page.
- 2. An XML Http Request object is Created by Javascript.
- 3. The XML Http Request object send a request to a web page.
- 4. The server process the request.
- 5. The response is read by Javascript.

Design :-

Following steps are used to create and Excuet web application.

1. Write a HTML code in notepad and save with .html extension.
2. Write the css code in notepad and save with .html extension.
3. Write the JavaScript code in notepad and save with .css extension.
4. Import css file in HTML page.
5. Import JS file in HTML page.
6. Open HTML page in browser.

Test Case :-

Manual testing is used to check wether Java Script get applied or not.

Conclusion :-

Hence, We have designed web page using HTML and Java Script.