

AJAX (Asynchronous JavaScript and XML)

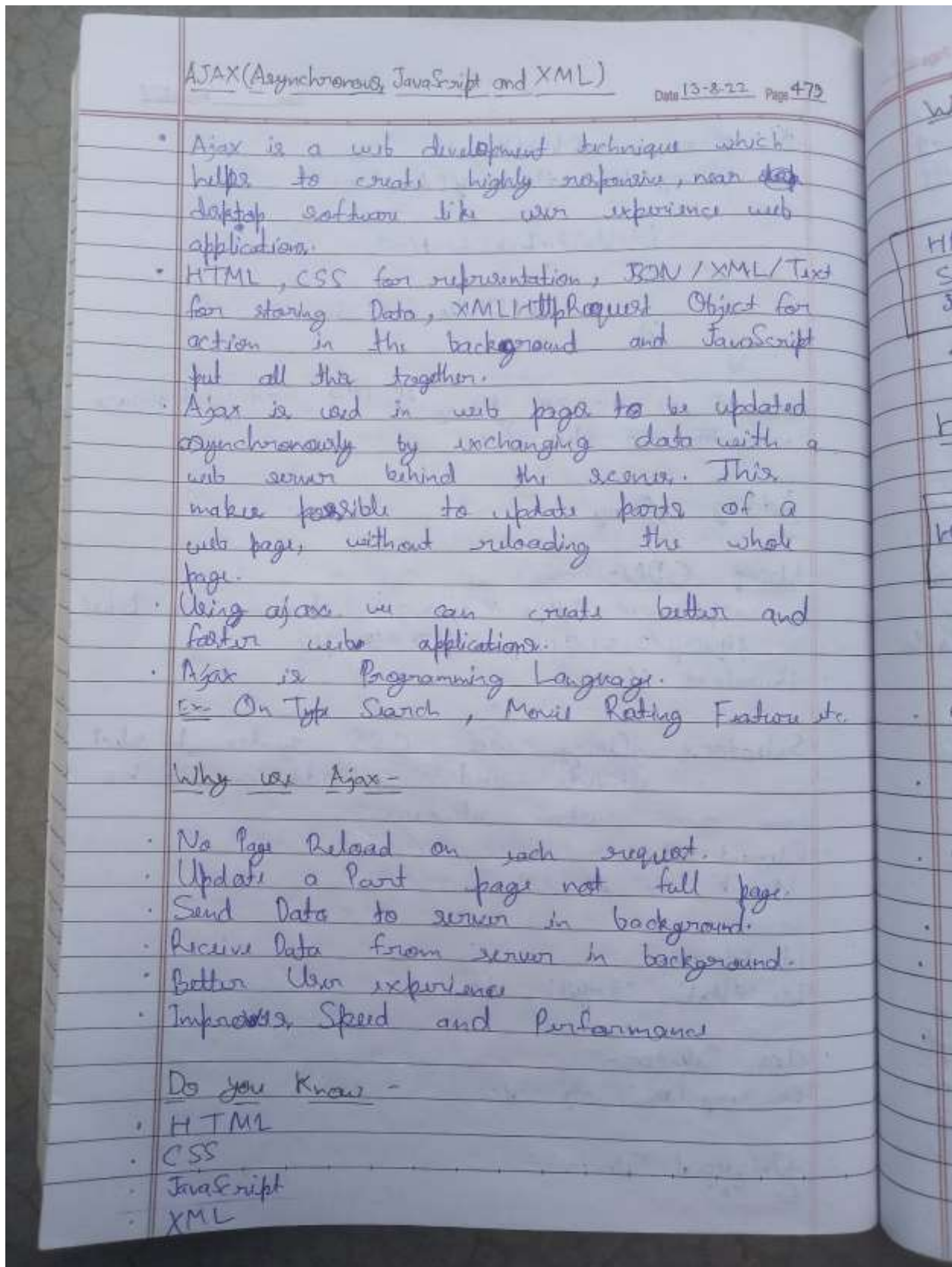
GEEKYSHOWS YOUTUBE CHANNEL LEARNING NOTES

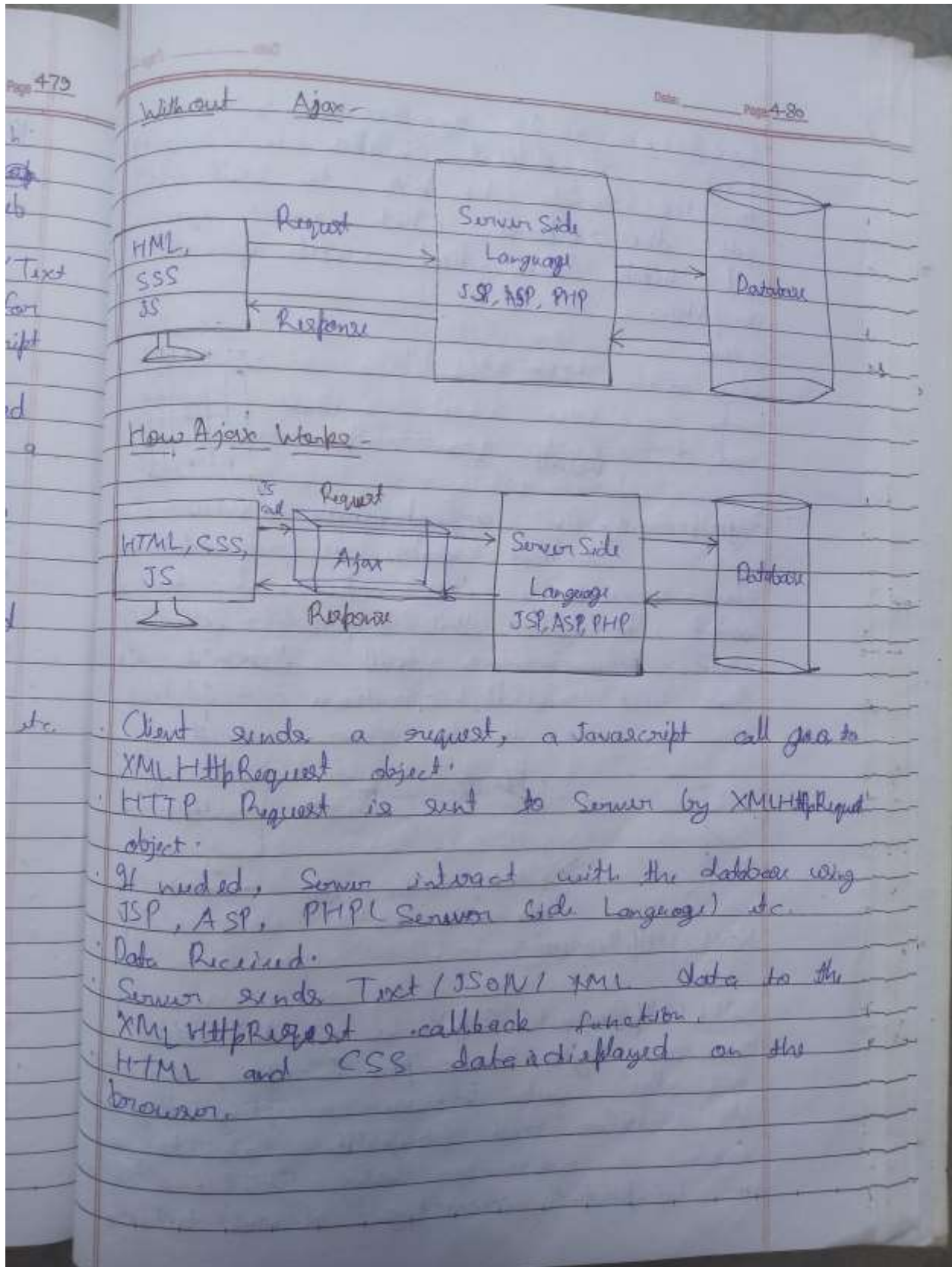
Source Code - https://github.com/satyam-seth-learnings/ajax_learning

YouTube Link - https://youtube.com/playlist?list=PLbGui_ZYuhihUYNCkpedtfgpYXv9tHVsp

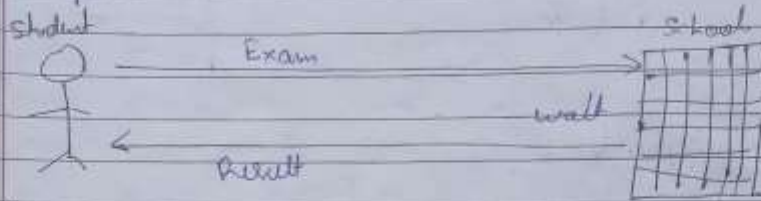
SATYAM SETH

14-7-2022

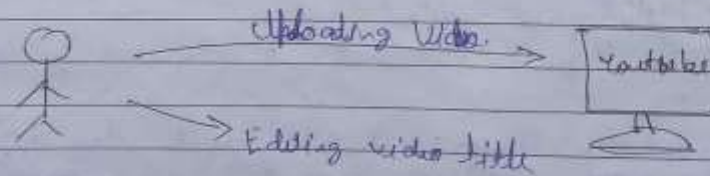




Synchronous - In synchronous, when a client makes a request to the server he has to wait until he gets the response which means synchronous call blocks the client until operation completes.

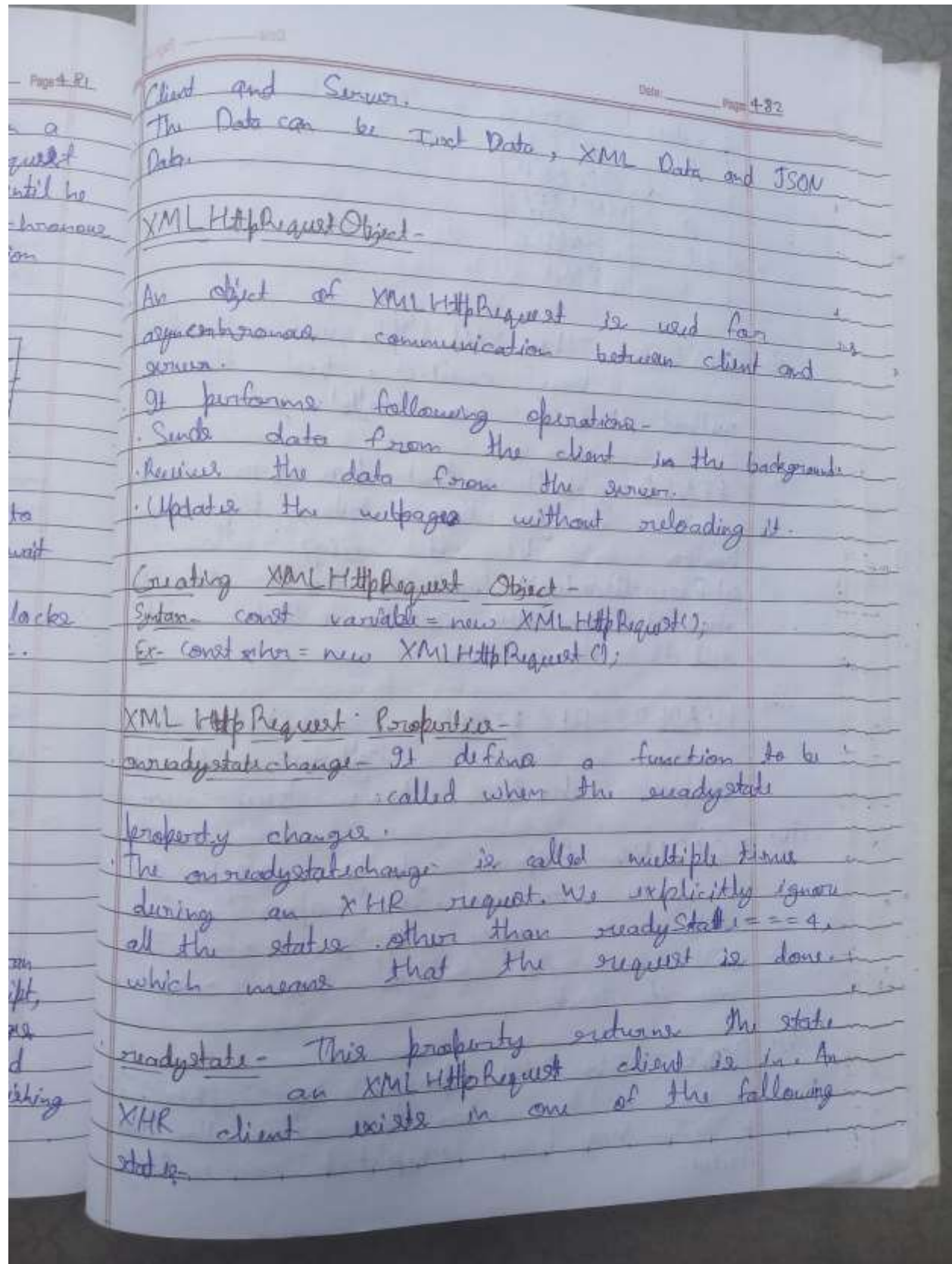


Asynchronous - In asynchronous, when a client makes a request to the server he does not need to wait until he gets the response which means asynchronous call doesn't block the client until operation completes. He is free to do other activities.



XMLHttpRequest

XMLHttpRequest (XHR) is an API that can be used by JavaScript, JScript, VBScript, and other web browser scripting languages to transfer and manipulate data to and from a webserver using HTTP, establishing an independent connection channel between



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Value	State
0	UNSET
1	OPENED
2	HEADERS_RECEIVED
3	LOADING
4	DONE

- (i) UNSET - The XMLHttpRequest client has been created, but the open() method hasn't been called yet.
- (ii) OPENED - open() method has been invoked. During this state, the request headers can be set using the setRequestHeader() method and the send() method can be called which will initiate the fetch.
- (iii) HEADERS_RECEIVED - send() has been called and the response headers have been received.
- (iv) LOADING - Response's body is being received. If responseType is "text" or empty string, responseText will have the partial text response as it loads.
- (v) DONE - The fetch operation is complete. This could mean that either the data transfer has been completed successfully or failed.

