

Purpose of AJAX = SPA , to get data from server , without refreshing the page

API = XMLHttpRequest

We need to handle JSON appropriately (JSON.stringify or JSON.parse)

Object Destructuring = extracting members of the object in local variables can be done easily
Shorthand notation

Rest Parameters in Javascript = ...varname , caller of the method can pass any number of args

JQUERY = Javascript Library

How to include the library in our code ?

1. Download the library and include the filename in src of script

2. Access using the CDN = Content Delivery Network

<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.1/jquery.min.js"></script>

From <<https://developers.google.com/speed/libraries#jquery>>

After the JQUERY library is included -----

\$ = JQUERY is available

Ready event of the document ---- whenever the document is fully loaded only then the code will get executed from the callback

Ex1 = Accept a number from user

on clicking a button show the square of the number in the paragraph

JQUERY

1.	val()	get the value of the selected element
	val(param)	Set the value of the selected element
	text(sqr) text()	set the text to sqr of the selected element get
	html() html(param)	get set -overwrite the body of the tag
	append(param)	append to the existing content of the tag

Show a dropdown ---- names of weekdays

Whenever a weekday is selected

Show the weekday in first 3 letters in capital in a p tag

Show a check box Educational Details

When the checkbox is checked then show a div that has

Textfield for passing year , dropdown for edu SSC, HSC, BE ,ME

Show a textfield and a edit-button , when the button is clicked make the textfield editable

When the button is clicked again make it readonly

\$("#input").prop("readOnly",false) ===== to set the property

\$("#input").prop("readOnly") === to get the property

HW --- Run the Stopwatch example discussed in class , modify it so that if the timer is stopped and start again then it should resume from where it left.
Add one more button - reset timer . If this is clicked then the start should begin from 0

Ex --- input field
Button - add
Div

Enter the grocery item in the input field and click the button - the item should be appended to an ol in the div

Animation related API

show	display the element
hide	hide the element
toggle	hidden --> show shown--->hide
fadeIn	appear slowly OPACITY
fadeOut	disappear --OPACITY is
slideUp	
slideDown	
animate	

animate({CSS PROPERTIES } , SPEED , CALLBACK TO BE DONE AT THE END)
Used to MOVE The HTML elements

a queue of animate commands is maintained by JQUERY
and all actions in the queue happen one after the other

Using Custom attributes ----- Called as Data Attributes

1. Define the attribute name on any tag
2. Read the value of the attribute
3. Set the value of the attribute

<tag data-attr-name="rrr" >

Api	data("attrib-name") ----- getter
	data("attrib-name","value") --- setter

<div data-info="{ 'id':12,'cost':300}" />

Write a code to display the cost of the div tag in console !!!

TRAVERSAL

	siblings
	children
	each
	parent
	child
	prev
	next
	find
	first

These functions return the matching ELEMENT .

Once you get the element

You can use val, html, css , text , fadeIn ,.....

```
$(selector).click(function(){  
    $.ajax( parameter )  
  
})
```

FOR GET request -----

```
parameter = {  
    method:"GET",  
    url : "http://.....",  
    async : true,  
    success : define a function to capture and process response  
}
```

FOR POST Request -----

```
Parameter = {  
    url:"https://reqres.in/api/users",  
    method:"POST",  
    async:true,  
    //data:{name:'virat',job:'cricketer'},  
    data:dataobj,  
    success : accept and process the response  
}
```

