

	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Ex:

```
let myArray = [5, "Six", 2, 8, 2];
```

```
myArray.splice(2, 2);
```

```
console.log(myArray);
```

Adding New Items - splice()

```
arr.splice(start, 0, item1, item2)
```

Number of items

to be removed

starting from the

given index

findIndex()

	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

that satisfies the provided testing function.

* If no item found return -1

arr.findIndex (testing Function)

A function to

operate on each

value in the

array

Ex:

```
let myArray = [5, 12, 8, 130, 44];
```

```
let itemIndex = myArray.findIndex
```

```
(function (eachItem) {
```


1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	

Callback Functions:

10 Passing function as an argument

11 function displayGreeting(displayName) {
12 console.log('Hello')
13 }

14 callback

15 A callback is a function that

16 is passed as an argument to
17 another function.

Schedulers:

18 Schedulers are used to

19 schedule the execution of a

20 callback function.

There are different schedulers methods:

* setInterval()

* clearInterval()

* setTimeout()

* clearTimeout() and many more

2 setInterval()

3 setInterval() allows us to

4 run a function repeatedly, at the

5 specified interval of time.

6 Syntax:

7 setInterval (function, delay)

8 Time in
9 milli seconds.

10 A callback function that

11 is called repeatedly at the

12 specified interval of time
2022

	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

let counter = 0;

setInterval(function() {

console.log(counter);

counter = counter + 1;

}, 1000);

Canceling Schedules

clearInterval(id);

clearInterval() Cancels a Schedule

Previously set up by calling

setInterval

28 SUNDAY

Syntax:

let intervalId = setInterval(function, delay);

A variable that

stores values the

id returned by setInterval

setTimeout()

The setTimeout() method executes a function after the specified time.

setTimeout(function, delay) Time in milliseconds

A callback function that is called after the specified time

30

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M	T	W	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

~~Stopwatch~~ code:

Event listeners:

JavaScript offers three ways to

add an Event listener to a DOM

element.

1) Inline Event listeners

2) OnEvent listeners

3) addEventListener()

→ Inline Event listeners:

onclick is used in HTML ElementsEx:

<button onclick="greeting()">

2022

Greet </button>

M	T	W	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

function greeting() {

console.log("Hi Raju");

}

→ OnEvent listeners

<button id="greetBtn"> Greet </button>

let greetBtn = document.getElementById

("greetBtn");

greetBtn.onclick = function() {

console.log("Hi Raju");

};

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M	T	W	T	F	S	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

2022

01

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	M	T	W	T	F	S	S
5				1	2	3	4
6	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19
19	20	21	22	23	24	25	26
26	27	28	29	30			

addEventlistener()

A modern approach to add

Event listeners

Event name

element.addEventlistener(event,

function)

HTML

Element callback function

Events?

Events are the actions by which

The user or Browser interact

with HTML Elements.

2022

	M	T	W	T	F	S	S
30	31	1	2	3	4	5	6
7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22
23	24	25	26	27	28	29	30

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02

Keyboard Events

Mouse Events

Touch Events

many more

Keyboard Events;

Keyboard Event is the user

interaction with keyboard.

Keyboard Events;

* Keydown

* Key up

Keydown event occurs when a key

is pressed down.

element.addEventlistener('keydown',

function);

HTML Element callback function

2022

The Event Object?

Whenever an event happens,

the browser creates an Event Object.

It consists of information about

event that has happened.

It consists of many properties

and methods.

* type

* target

* key

04 SUNDAY

* timeStamp

* Stop Propagation and

many more.

Logical Operators?

Python

and

or

not

Javascript

&&

||

!

Comparison Operators?

Not equal (!=)

Strict not equal (!=)

Not equal Compare

Strict not equal

two values but

Compares two

doesn't Compare

values including

types of values.

	M	T	W	T	F	S	S
5	31	4	5	6	7	8	1
6	1	2	3	4	5	6	2
7	2	3	4	5	6	7	3
8	3	4	5	6	7	8	4
9	4	5	6	7	8	9	5
10	5	6	7	8	9	10	6
11	6	7	8	9	10	11	7
12	7	8	9	10	11	12	8
13	8	9	10	11	12	13	9
14	9	10	11	12	13	14	10
15	10	11	12	13	14	15	11
16	11	12	13	14	15	16	12
17	12	13	14	15	16	17	13
18	13	14	15	16	17	18	14
19	14	15	16	17	18	19	15
20	15	16	17	18	19	20	16
21	16	17	18	19	20	21	17
22	17	18	19	20	21	22	18
23	18	19	20	21	22	23	19
24	19	20	21	22	23	24	20
25	20	21	22	23	24	25	21
26	21	22	23	24	25	26	22
27	22	23	24	25	26	27	23
28	23	24	25	26	27	28	24
29	24	25	26	27	28	29	25
30	25	26	27	28	29	30	26

	M	T	W	T	F	S	S
5	31	4	5	6	7	8	1
6	1	2	3	4	5	6	2
7	2	3	4	5	6	7	3
8	3	4	5	6	7	8	4
9	4	5	6	7	8	9	5
10	5	6	7	8	9	10	6
11	6	7	8	9	10	11	7
12	7	8	9	10	11	12	8
13	8	9	10	11	12	13	9
14	9	10	11	12	13	14	10
15	10	11	12	13	14	15	11
16	11	12	13	14	15	16	12
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18	13	14	15	16	17	18	14
19	14	15	16	17	18	19	15
20	15	16	17	18	19	20	16
21	16	17	18	19	20	21	17
22	17	18	19	20	21	22	18
23	18	19	20	21	22	23	19
24	19	20	21	22	23	24	20
25	20	21	22	23	24	25	21
26	21	22	23	24	25	26	22
27	22	23	24	25	26	27	23
28	23	24	25	26	27	28	24
29	24	25	26	27	28	29	25
30	25	26	27	28	29	30	26

Web Resource:

A web Resource is any data

that can be obtained via internet

A resource can be

* HTML Document

* CSS document

* JSON data in plain text.

* Image, Video

etc.

for accessing web resource we

need a URL →

Uniform Resource Locator

URL is a text string that

specifies where a resource can be

found on the internet.

Syntax:

Protocol: // domain Name / path ? query-parameters

Eg: Protocol Domain name

Query Parameters

http://www.flipkart.com/ watches ? type = digital

& rating = 4

path

Query

Parameters

Protocol:

A Protocol is a standard set of

rules that allows electronic devices

to communicate with each other.

	M	T	W	T	F	S	S
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6					8	9	10
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Web Communication Protocols:

* Hypertext Transfer Protocol (HTTP)

* Hypertext Transfer Protocol Secure (HTTPS)

* Web Sockets

→ Hypertext Transfer Protocol (HTTP)

The Hypertext Transfer Protocol

(HTTP), is used to transfer resource

over the web.

Message sent by the client

HTTP Request

→

HTTP Response

↓

Message sent by the server

Client

Server

Browser
A padlock

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7					3	10	
8					4	11	
9					5	12	
10					6	13	
11					7	14	
12					8	15	
13					9	16	
14					10	17	
15					11	18	
16					12	19	
17					13	20	
18					14	21	
19					15	22	
20					16	23	
21					17	24	
22					18	25	
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100							

HTTPS

In Hypertext Transfer Protocol

Secure (HTTPS), information is transferred

in an encrypted format.

It provides secure communication

Domain Name:

It indicates which web server is

being used.

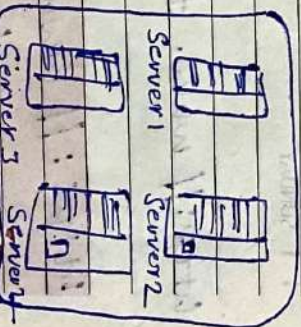
Ex:

http://www.

flipkart.com/...



Client



10

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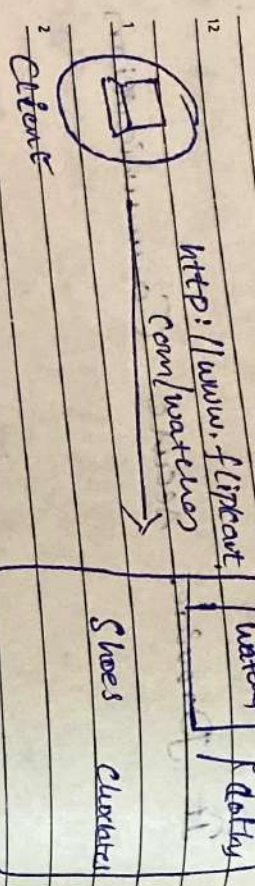
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M	T	W	T	F	S	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Path:

9 The path to identify the resources

10 On the server.



11 path:

12 http://www.flipkart.com/watches

13 SUNDAY

14 http://www.flipkart.com/fashion

15 https://www.flipkart.com/electronics

16 /laptops/gaming

2022

12

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M	T	W	T	F	S	S
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29					

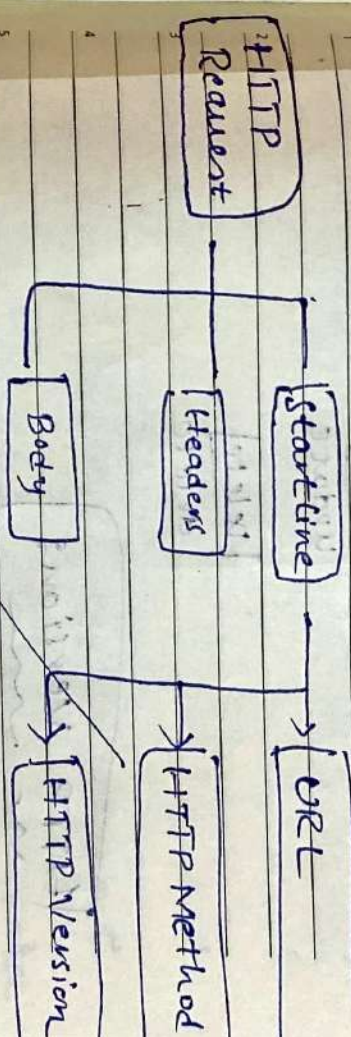
Query Parameters:

10 http://www.flipkart.com/watches?type=

11 digital & rating = 4

12 Query Parameters

URL we give



13 HTTP Method

14 Request methods indicate the

15 desired action to be performed

16 for the given resource.

2022

	M	T	W	T	F	S
30	31	4	5	6	7	8
2	3	10	11	12	13	14
9	17	18	19	20	21	22
16	24	25	26	27	28	29

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14

HTTP Headers;

- 1 HTTP Headers let the client and the server to pass additional information with a HTTP request or response.
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Body;

- 1 we place the data in the request body when we want to send data to the server.
- 2
- 3
- 4
- 5
- 6
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- 8
- 9
- 10
- 11
- 12

Example:
 * form details filled by the user.

HTTP Responses

HTTP responses are messages sent by the server to an answer to the client's request.

HTTP Response

Header
Status line
Body

Status lineHTTP versionStatus codeStatus text

M	T	W	T	F	S
5	6	7	8	9	10
12	13	14	15	16	17
19	20	21	22	23	24
26	27	28	29	30	

S	M	T	W	T	F	S
30	31	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

Status codes indicate whether a

HTTP request has been successfully completed or not.

1xx

Informational

2xxSuccess
and means like 2013xx

Redirection

4xx

Client error

5xx

Server error

200 (Success)

Indicates that the request has succeeded.

201 (Created)

The request has succeeded and a new resource

17

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5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30		

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How to make HTTP request using

JavaScript?

* fetch()

fetch() method is used to

fetch resources across the

internet.

fetch(url, options)

request configuration

URL of the resource

18 SUNDAY

request Configuration:

we can configure fetch

request with many options like

2022 * request Method:

5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	

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* Headers

* Body

* Credentials

* Cache

many more...

2 request Configuration:

3 The request Configuration is

4 set Created a JS object

5 let options = {

6 method: 'GET',

7 headers: {

8 'Content-type': 'application/json',

9 },

10 body: JSON.stringify(data),

11 };

19