

Asynchronous Java Script
 script that runs parallelly in the Web App's

will execute only when the call stack is empty means at the end or after the completion of JS code

Methods

Promises

Manage callbacks more efficiently using resolve & reject

setInterval

runs a single code multiple times after a given time interval

`setInterval (any function, interval)`

ClearInterval → to clear the recurring caused by the setInterval.

setTimeout

executes a particular script after a given interval of time

`setStoppage (function/any, interval)`

Callback Hell & Pyramid of Doom concepts

occurs in case of multiple callbacks scenario (occurs whenever there are multiple set methods or callback were used in a single process)

`setTimeout (function () {`

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`3,1000)`

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`3,1000)`

this type of function causes difficulties in the complex web page

`const myPromise = new Promise (function (resolve, reject) {`
`if (condition) {`
`resolve ("Your output")`

`else { reject ("Your output in rejection")`
`myPromise.then (function (value) {`
`console.log (value)`

`catch (function (value) {`
`console.log (value)`
 in case of reject

difficulties
web page

Conversion of Pyramid of Doom Concept to an optimize code

Some key Points:

- Event loop will first execute the Microtask queue (Promises)
- then the normal callback queue (setTimeout) (Promises) setTimeouts
- the method will return the entire promise itself.
(& you can also chain it when you use the return statement with it)

CHAINING OF PROMISES

example → `const MyPromise = Promise.resolve("Completed")`
`MyPromise.then(value ⇒ { console.log(value) } OP → Completed)`
`value = value + (topk)`
`return value` → Completed topk

`.then(value ⇒ { console.log(value)`
`value = value + (topk)`
`return value` → Completed topk topk

`.then(value ⇒ { console.log(value)`
`}` → Completed topk topk topk

Solving Pyramid of Doom Concept

function Ridof(callback) {
 return new Promise(function(resolve, reject) {
 // ...
 })
}

Ridof(callback).then(function(value) {
 return Ridof(callback)
})

... function(value) { ... }

return y

- then (function (value) {
return Rcd of (albed)

return y

- then (function (value) {
return Rcd of (albed)

return y