Job queue

Earlier we said that setTimeout is not a part of JavaScript, it's a part of WEB API

However, with the introduction of Promises Promises let us handle asynchronous code and they are actually a part of Javascript

So we need something to handle these promises just like we need Callback queues to handle settimeout allback.

Job queue - Microtask queue

Job queue is a bit smaller compared

to callback queue buthas higher priority

So the event loop is going to check the

Job queue first and then callback queue

if it is empty (guess the output)

Promise . * resolve ('Wohoo'). then(()=) console. (09('2'))

set Time out (() =) console.log('1'), 0) set Time out (L) =) console.log('1'), 10) console.log('4')

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How to execute parallel, sequence and race using promises

1 Parallel

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In order to execute & promises in parallel (all together) and get their se result together we can use

Promise. all ([promise1, promise2, promisez..])

2 Race

when we have multiple promises and we only want to return the result of the promise that act's resolved first we can use

Promise race ([promise 1, promise 2....])
It will only give result of the promise that gets resolved first

3 Segvence

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What if we have n promises and we want to execute them one after the other?

const p1 = = await promise1

const p2 = await promise2

const pn = await promise n

In this case after promises gets resolved, promise 2 gets executed, once that resolved promises and so on...

Esao20: all Settled.

@codewithSimman

We already talked about Promise. all

Promise all [[promise 1, promise 2]). then

(data => console.log(data))

Let's say promise 1 gets resolved and promise 2 gets rejected.

> Output -> Uncaught Cin promise) undefined So we need to put a catch statement to properly handle this

So promise all resolves only if all the promises resolves. Even if one of them gets rejected, its going to result in an error. @codewithsimran

for that matter, we have Promise allsettled which will result in an array of outputs from the promises, if they get resolved or rejected.

Promise. all Settled ([promise1, promise2])

> [{ status: "fulfilled", value: 'somevalue'} { Status: "rejected", value: undefined}]