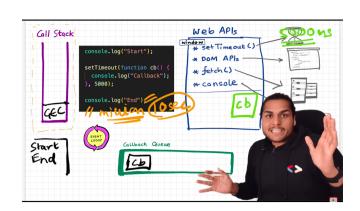
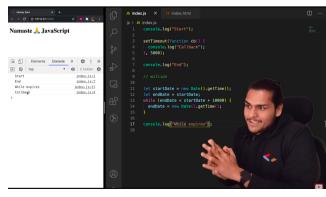
Trust Issues with setTimeout()

Saturday, 19 August 2023 11:41 PM



- In above code a hote is created & parched onto the calletack.
 After that 'start' is printed.
- Now Is agine registers the allback on in web API environment Lattaches a timer of 5 sees to it.
- -> It goes on executing other lines of code, since Is does not want for anyone and end is printed.
- -> Now lets assume that there are 1000 lines of asde after 'end' is printed which lets assume take 10 sees to execute.
- Now one would think that after soes collocale ft's holdenee gots stored in the callback quale and will be pushed to the call stack by event loop immediately after soes. But that's not the case and that's why there are trust is sues with sottimeout.
- -> Since the call stack is not empty & 1000s of likes of code is being executed, so event book how to wait I finally after coses when 1000s of likes of code are done executing I call stack becomes empty only then, event book pruhas the EE of the callback pt.
 - 50, this set threat's callback to execute after weeks instead of 5 sees. This is called consumery model in 75.
- -> That's why it is said that we should not block the main thread.

-> browser hemo of above explanation?

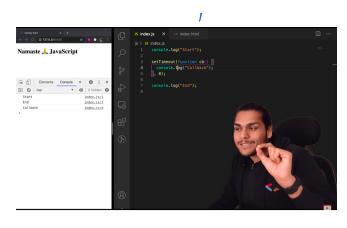


-50 here, lihe 11 to 15 represent a delay of

150, JS engine will print start, then it'll print 'end' I finally ofter weeks it

prints while exposes & unmediately after that it prints 'callbalk'.

I we an explain this behaveour using the above logic.



Is so here the off is such because callback of will only push the callback of to the call stack once the callstack becomes empty, hence we get such off.

ans- We am use above code, if we want to Jeter a place of code until other likes of a fe get executed.

Note: So, due to the concurrency model, we ando asynchronous tasks in a single threaded language like Is.