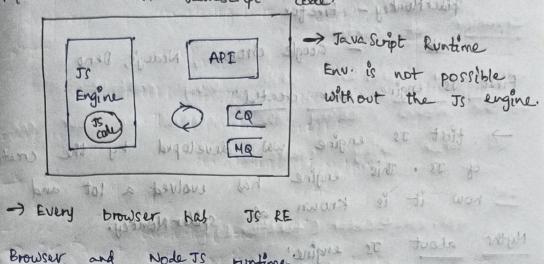
JavaScript Engine

Javascript Runtine Environment! Sund Example DA

A sort of container which has all the things required to run Javascript code: - possession



Browser and Node Is runtime with the totals wight

- → Node Ts is open source Ts RE and can run

 To code outside the browser.

 → APII provide the features to use inside

 To code. These are different inside Is code. These are different inside browser and node Is. Sometimes they are common too.

- L) Browser has an API called local storage which girls access to local storage of the browser from the code and in case of node Is, it could be different.
- L> settimeout API is present in the browser as well as node 75.
- L) console also present in both browser and node Js.
- H) there names may seem to be similar but internally they are implemented differently.

List of Is enginel; -> All browsers have their own Is engine. chakra - Nicrosoft Edge and the trong SpiderHontey - Firefox. 200 100 de chrome, Nodejs, Deno First Js engine ever created: -> first Is engine was andeweloped by the creator of Is. This engine has watved a lot and now it is known as as spider Nonkey. Mythr about Is engine! anistrus 27 shows has viscons Ly Js engine as not machine. 27 2001 (Level larguages.

Level larguages.

Level larguages written in tow written in cetter of the original of the cetter and node Is: come times they are common too.

thousen her you are called beat strage

which give a took storage of the breiter

from the code and who carried nedecate, it

the be different.

Settingout ATE is pulsat in the browner as in John la 11961.

callback!

Authorizon

asynthronous tasts in Is.

Ex!

Investor of Controli const cart = [show " pant" " shirts"]; api. createorder (function c) of prior and the

api. proceed to Payment (); 3); createcoder Charction () {

Ly we have given callback function to creteorder API and it is the responsibility of create-order Apl to crote an order and then call the function back and stand and then call

As this way, using callbacks, we can handle If we attach more stable in the stable in th

Show Order Summary to tol a Ly updat wallet . Illian

there we can see a dependency flow where every inner function is dependent on outer function. In large code bases, APIS are dependent one upon the other. This phenomenon of one callback inside another callback is known as callback tell

- > In such situations the code grows horitontally
- sut not vertically.

 This type of code structure is unreadable and unmaintainable. applies out that in Issue !

Investion of control!

- -> Another problem while using callbacks
- This means, loosing the control on our code with when using callbacks.

api. preced to Peyment (); api. createorder (function () {

api. proceed to Payment ();

app and it is the responsibility of distributor

there, we have creating the order and take the callback function, gave it to create order

API.

Now, a developer is blindly trusting cresterder ADI that it will create an order and at some point of time will call the function back. This is very risky as createorder API must be in some other revice or there could be a lot of bugsmulorated it is could never be called. Island Jaloge of

we are giving control of our code to some other code and we might not know what happen behind the scenes.

you the others this phenomenon of one callede

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