Debouncing in Js Case study: Observe any e-commerce search bor, eg. flipkant, there are always a auto suggest apl called when we search something in search bar, but it doesn't call api for every key stroke, it sheets it there is Some delay between keys and if there is delay, then it fires one query. i) Create a search bar in html <input type = "texit" onkey up = "get Data After Pauxe ()" > function getData () of called! counter++); dosome Magic (got Data, 3000) const get Data After Pouse = This for is used to call get Data after delay const do Some Magric = function (fn, d) & let timer; return function () & console log (this); let context = this, clear Timeout (timen); finer = set Timeout (() => { Console. log ('set Timeout called'); In apply (context); J, d)

poloumany & Throttling in Is Limiting the nate of execution of function call can optimize your application Throthing Some as debounding, but it does not depend on user pause, it always colls apis after certain amount of time. Debouning -> call it user pauses for 300ms Throffling -> cell if prenous for was called 300ms ago aperouncing makes more sense USC Care 2. On Resizing the window, it triggers fms almost 2000 Jimes, so to trackresize (), we use debouring and Amothling to limit the rate add Ele ("renzi", () = { trackporte() }); User may resize slow or fast Throtting may seem fine in this scenario Button diched frequently ( while playing games, person bouncing to shoot bullets) Debouncing 5 FC 11 11111 1111 1 / Throttling If you have machine guy, you can observe throttle care Which is better debouncing / throthing ? A. Always depends on use case

16/3 Throtting Throtting is a mechanism to limit the rate of execution of methods on some events. Eg: window nerize,
on window nerize, there will be loo's of Calls
for loms, how do we not trigger an expensive for when restring, it will be by writing some better expensive function by indulging throttle \* Expensive function returns to the function which is making apr call (not a JS terminology) Code 1/Refer to github. < button on chick= "getData AfterPause ('weather') = Click for terry erature 2/button? 15 let counter = 0 get Weather Data () S console. 109 ('weather Data'); Const throthe Weather Data = function (getweether Data for, delay) of netum. function () 3 · · · · · · function () f it let fn In Progress = false; return function () { let (ing) = arguments: it (I for in Progress) of for apply (contest, age); for In Progress = true; Sto (()=) of 3, delay) Juteries questions on debouncine and throthing

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