25/2/24
Monoloth Auchitecture (old way) Subole application is made in single framewood on larguage Lift you made a small charge you need to re-build the
urbole application.
Micro Servie Anchitecture (New way)
All small services combined together form a big app.
-> Septention of concesus
Different languages can be used in different michoservices
-> They all one connected -and How
they all are runned to or deployed on their particular
pous.
At the end All these pouls are deployed to domain Name
*Now we will use api calls in our project for dynamic data
> Two type of calling
(Get all the data from API -> then rendering (Poor)
First render all the Make API
First render all the Make APT things we have call for > Resender (aroad) Reactives and the page (ax)
React uses and approach as React is so good and fast in Rendering Pages
good and tast in Rendering Pages

Use Effect Hook > 1) import { use Feffect } from \$ "Heact"

4 Now to make api calls we use Use Effect Hook

This function will be called after the page is siendered

Fetch () by This is a feature given us by the becourses, by the JS Engine Ly Used to Fetchdula Example fetchPala = () => } const data = await fetch (const ison = await date of son (); censole.log (json) Canwe directly fetch data from live api? (Allow : CORS -3 Yes we can but it gives us a COSTSE Exercise to resolve change -> Because are making a Cross Origin Call. Resource sharing #Making & Loading Button optional chaining 14 As feeling data takes time data name x - Just add on noture achie Loading the datal. name tag. before the fetch data A leven if that object is it (list of Restaurants, length === 0) not available it will not sicker 2n1> Loading Inti therew an every it will give undiffered. # Shimmey UI / Conditional Rendering Rendering according to Is load a take frame work before the actual UI So that the user experience become smooth. as we created a shimmenings # (neating a login button using Use State - when we use a normal function the code is changed but the UI is not mendered again to make it happen we use local state voulable that so Use-State

const (bth Name Read, set Bth Name lead) = used tate ("Login") ternary openator Abutton class Name = "login" orClick = { () > { btnName React = = "Login"? set Btn NameReact ("logart) : Set Blan Name Read ("login"); . }} & Atn NameReact } < / butters New for the input we are not # Making a Search Box taking a normal vouible we are using a mediate. You known when you type one-by-one letter in the search box the page shows us the result like that setting -) const (searchtext, setSearch Text] = useState (" "); an every small change in text box Laliv class Name = "Search"> < in put type = 1'text", class Name = "search-box" value = [searchText] on Changer ((c) => { set Search Text (c. target value); }} (, < batton on Click = } () => } Cuhenever state variable update, Heact triggers a recencilation cycle (ne-nenders the compenent) const fillered Restaurant = list of Restaurants. filter ((ses) > Hes data name tolower (ase(): includes (search Texto to Lower (as e()) Is to make both studies hove we are comparing that is there arry eard who's name string includes the string that we searched. And that whole list is storted in filtered Restaurant. sel Filtered Restamant (filtered Restamment) के अप जन्मा जन्म Search of buttons