Testing Our Application Episode -13 O testing Manually whiting test case ← wouting code that will test a... will test our application # Types of testing (developer) 1) Unit testing testing a single component
1) Integration testing testing ruliple component integrated s) End to End Testing - e2e testing - testing the the flew bromentering the site to leaving. # Road testing Library. Is build ontop of Dorg testing library when we use Create React app the testing library is already included. -> It uses Jest (Javosculpt testing framework) so we will install both (As we are learning react from struct) npm ? -D @testing-library/seact @ ppm i - Djest Now are are using jest with babel so we will need to install additional library. HIPS: jest is. To/docs/ getting-stanted npm install -- save-der babel-jest @babel/cosse @babel/preset-err 3 Here parcel has it's own batch and Jest also has its own so they should not conflict so we need to execute a config Also execute babel config.js https: Parcel. org/larguages/javasocipt -> usage with ether tools from jes docs / getting create a new fale parcenc And paste that code from above site

to sun test we have command in Pakage ison "Scripts". 3 test cases so this does not "test": "jest" own on browsey so they will need a stan tome Command > No non sun test envioument, o Jsdom is like a bucusey (5) Create jest config to test -> My jest --init typscuipt >> N itest anviennen z jsdem Coverage reports Yess movider > babel Mock eallete -> Yess jest contigis will be created 6 Install Isdam library Beganse it we are using avente higher vension of jest then the installed npm i -D j'est-envioument-j'stem separately) So the test cases are written in tolder Or file with extension xxx otestois all the files inside. __ test. KXX o test. Es this tells files xxx · spet js opec. ts this is called as Dunder (two under scores) Also called as durder test to write a test rave HOW in sum, test. is import {sun} from "/sun" a nounal gum code in us test (" Seen function should calculate the sum of two number" () => Leweption earst nesult = sum (3,4); function of our 11 Assertion expart (result). to be (4)

To run test multe npm our test o raking our contact us page look good. Now we are testing the contact us Component Testing A component weather it Rendered on not (Contact , test of s coreate this file to wender in to get the elements from sween import { render, scueen} frem "9 testing-library/react", import " Testing-library / jest-dom!" test (Should load contact is component ", () => { Menden (x Contact />); different types note const heading = screen get By Role ("heading "); expect (heading). to Be In The Document ();)*j*; - here we are checking that it we rendered the contact us page then it should scender all the components present insidit So we use screen and menden provided by testing library to check (2) We need to install @ babel/preset-react because the jsx found is not enabled in jest this is helping to convert is to him! in babel config.js [" (base / preset - read " { rentime: "automatic" }]

(3) . to Be In The Document () this bundien also comes byon a library npm i - D @ testing - Library/jest-clom Rogastall this and impart it in your test document -> import " @ testing -library/jest-den". Beauty of jest is whenever it fails it also shows what was siendered on the Page New to seauch the element on the sorcer that their oure many ways: ex + toget e get By peget ALLBy scheen, get All By Place holder Text expecting I result expecting many result get All by Title (get By Label Text (-> If their are multiple and you are using get by it will throw a ever When the no. of test case increases you can group your test cases my using a function of desouble (" Contact us tert cores ", () => } test (...) { test () You can also have describe under describe rcy world Same You can use it or test

* Adding text cases for header Component > so in header Component you used 3 new thigs You need to Provide you nedex stone to this dom Dyou have used afterky tay this link tag is
provided by "react-nouted-dom"; import appStone from "// / utils /appStone";
import & BrowsenRouten & brown "react - seouten - dom".

add the coverage in git ignore

last to watch.