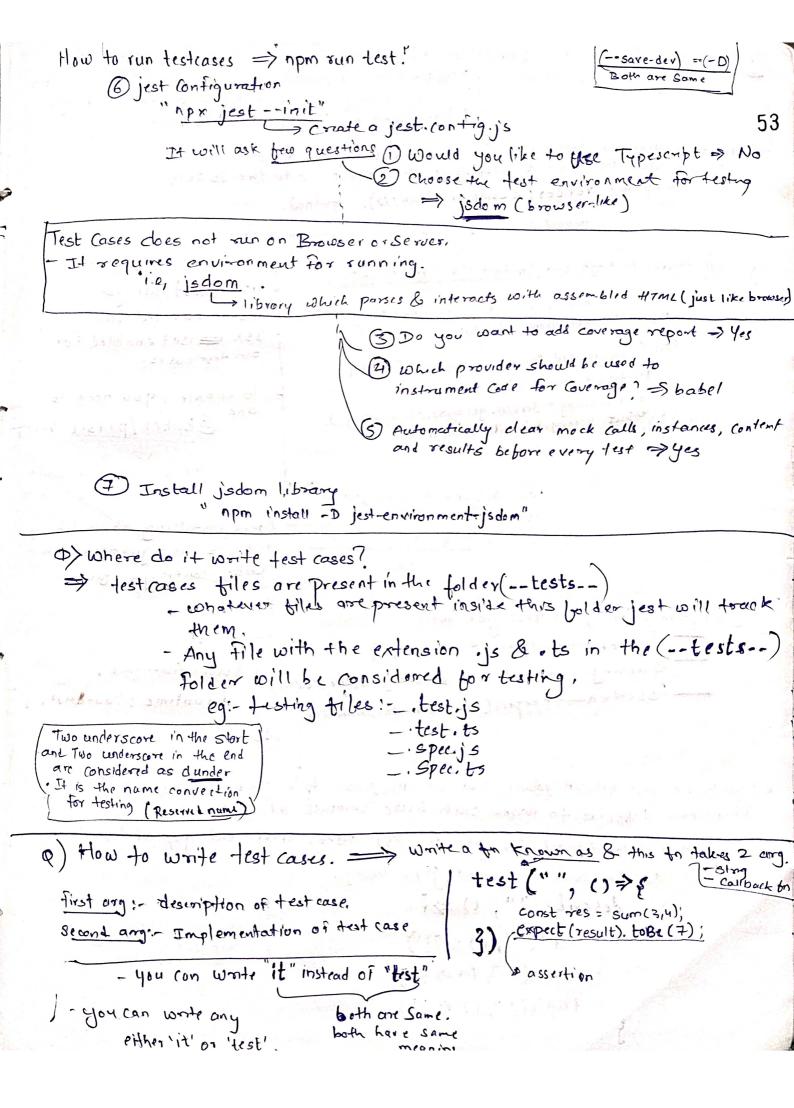
| | 13- Time for the Test (Developer Testing) | - |
|---------------|---|-----------------------|
| | | |
| | (Test case) Different types of Testing O Manual Testing | |
| | (Test (ase) Different types of Testing Tust Testing whotever we develop. Just checking | The same of |
| | the function. | P. Marie |
| | (2) write the test (asex | 4 |
| | test our Application automatically | 1 |
| | test our Application automatically | 2 |
| | | - |
| | Even you write a Single line of code, that can introduce a bug anywhere in the Code. A small change can create a big impact, becoze they are inter-related. | Course Marketin |
| | 3 Tunes of Tealine | ACT SOURCE |
| - most | 3 Types of Testing you test your React Component in isolation) 1) Unit Testing (you test your React Component in isolation) | |
| - Ceveloper a | Testing (Testing the integration of Components) Component work to 2) Integration Testing (Testing the integration of Components) Component work | Jane Sile |
| Responseb. | 2) - Tilling our Application as soon as 1 | |
| | 5) tod-to-tod lesting - exe testing user landing on our page till | -60 |
| | 3) End-to-Ford Testing - eretesting - (Testing our Application as soon as user londing on our page till user exits from Application Testing the whole flow of App | |
| | | Section of the second |
| | | 7 |
| × | Inbraries used for testing: | |
| | | 10 |
| | O React Testing library -> uses jest behind the Scenes builton top of Javassmid testing Framework | - |
| | | |
| * | Dom Testing library | |
| | installation | The second |
| | Onpmi-Datesting-library/react atesting-library/ dom | AAA |
| | 2 npm i - D jest | |
| | (3) nom i bobel-jest @bobell on @bobellon it | 138 |
| dese | create babel. config.js for babel configuration. | 3.6. mal. |
| · for | module.exports = { | |
| | presets: [1"@babel/preset-env", & target: { | |
| | node: "current g g J J, | |
| | 3; | |
| | 5 Configure Parcel Config Fileto disable default babel transplation | On- |
| | Parcel has bydefault babel Configuration, by for jest or estint | |
| | theirs separate another Dabel Configuration, Inorder to avoid | |
| - Con P | collision of both of these configuration. you have make | |
| 71 4 | parcel. r c file for porcel contiguration | |
| | (& now both will not conflict) and babel configuration | n |
| and the same | (& now both will not conflict) and babel an figuration can be used for jest | |
| | | _ |



```
Testing Cases for React
                               [ Unit Testing]
                                     Testing only one Component. Independent of your App.
                                     > You are taking out one Component and you're testing,
                                     La tike Isolation. Testing in a Isolated env
 - whenever you are testing a UT Component inside React
- you will have to Render that component on to the Js Dom
            Lousing (render (< component Name/>); ) method.
                       import { render } from "@freting-library Ireact"
Eg: We trying to test our Contact Us Component
                                                                 Me cannot use 15x
            import & render, screen & from " Etesting-library react";
            import (ontact from ".. / contact";
                                                                 inside our testrasc.
                                                                 Tax isn't enabled for
            test ("Should load contact us (omponent", () => {
                                                                  our test ear es.
               render ( < Contact />);
                                                                 To enable, you need to
               (onst heading = Screen. getByRole ("heading");
                                                                  add. @babel/preset-react
              3); Pect (heading). to Be Inthe Document ();
                                                                         It makes jsx work inside our test cases
                             to BeIn The Document comes from a
                             library known as
                                                               After installing above library
                             npm i -D (a) testing - library ljest-dom
                                                               add its configuration in
                                                                babel. configures file
    Everytime in your test you will
                                                                module.exposas = &
        Kender - render (< component/>)
                                                                presets: [
            - Quening -- const btn = screen.get ByRole ("batton")
                                                                 ["@babil|preset-react",
          Assertion - expect (btn), toBeInthe Documates;
                                                                      & runtime : "automatic"}
· Sometimes test file increases, Suppose in your file that are lo test cases.
It becomes difficult to make such huge amount of test case.
. We can create small few grp of test cases. different grap of test cases.
      How you can create different grap's using,
                   describe("", () ⇒ {
                                                       your describe block con
                      - test 1("", () ⇒ {})
                                                       Unave multiple Lest Cases.
                      - to+2(" ", () => 33)
                      - tu+3(00,() => {3)
```

| | jsdom understands react code, jsx code, js code, it does not know redux code. Our test hase will throw ever inease we try to render component with redux library |
|------------|--|
| | Flence, we need to provide the store using (Rerouider store: suppstore) ><1 Provider>) 54 |
| Bretan - | Also, we have to provide Context of React-Routerdom library |
| 10 (cho) | Also, we have to provide Context of React-Routerdom library. By provider Router to Component i.e. Sprowser Router/> |
| the begins | |
| 10 st | |
| * | Inorder to test the me a on Click event in React, |
| | there is something called as fire Event |
| | > it comes from Otesting-1 is sayling |
| | eq:- |
| 1 | render (<(omponent/>) |
| | - const login Button = Screen. get ByRole ("button", Enamr: "login") |
| P. J. | PireEvent click (login Button); |
| | Click event |
| 10 m | - Const logout Button: Soveen get ByRole ("button", & name: "logod") |
| * | fireEvent.click (logautButton); |
| | |
| * | Passing Props inside our Component and do unit Testing. |
| | The same a complete and |
| · · | get the muck data |
| | Create Separate file joon |
| | Pass the MOCK-DATA as props in the Component |
| | The Composition |
| | npm run watch-test; will execute the test case automatically on |
| | muking a change in code. |
| | porkage ison - You don't to run the test case everytime manually |
| } | "scripts": ; it willstart automatically. |
| | "watch-test": "jestwatch" |
| | |
| | whenever you have a async for or state update |
| | > You need to wrap component in act() > Returns a fromise > comes from react-dom/tests-utiles |
| 100 pm | |
| | it ("", asyn() ⇒ { |
| | await act (async () => render (< Bodylz)); |

| 1001.15 | |
|--|--|
| Screen | ·get ByTest Id ("search-input"); |
| | data-testid= "search-input"/> |
| | if any of the method such as getByRole, getBylabel, doesn't work, then get ByTastid will definetly work. |
| garden a la company de la comp | |
| (helper) | before Fach (1) => {3}) If you want to do something before All test Cases before Each (1) => {3}) If you want to do something before Each test Case you will do it insid this before Each for Similarly we have After AllOS after Each () |
| | |
| | |
| | |
| | r Kilineaus Tolic Lucius Lib |