

what is NPM (Network Package Manager)

pip (python)

Node.js (JS)

helps you to download (packages)

of Node.js from Internet.

eg) package - express -> NodeJS.

npm install package.name

npm install express

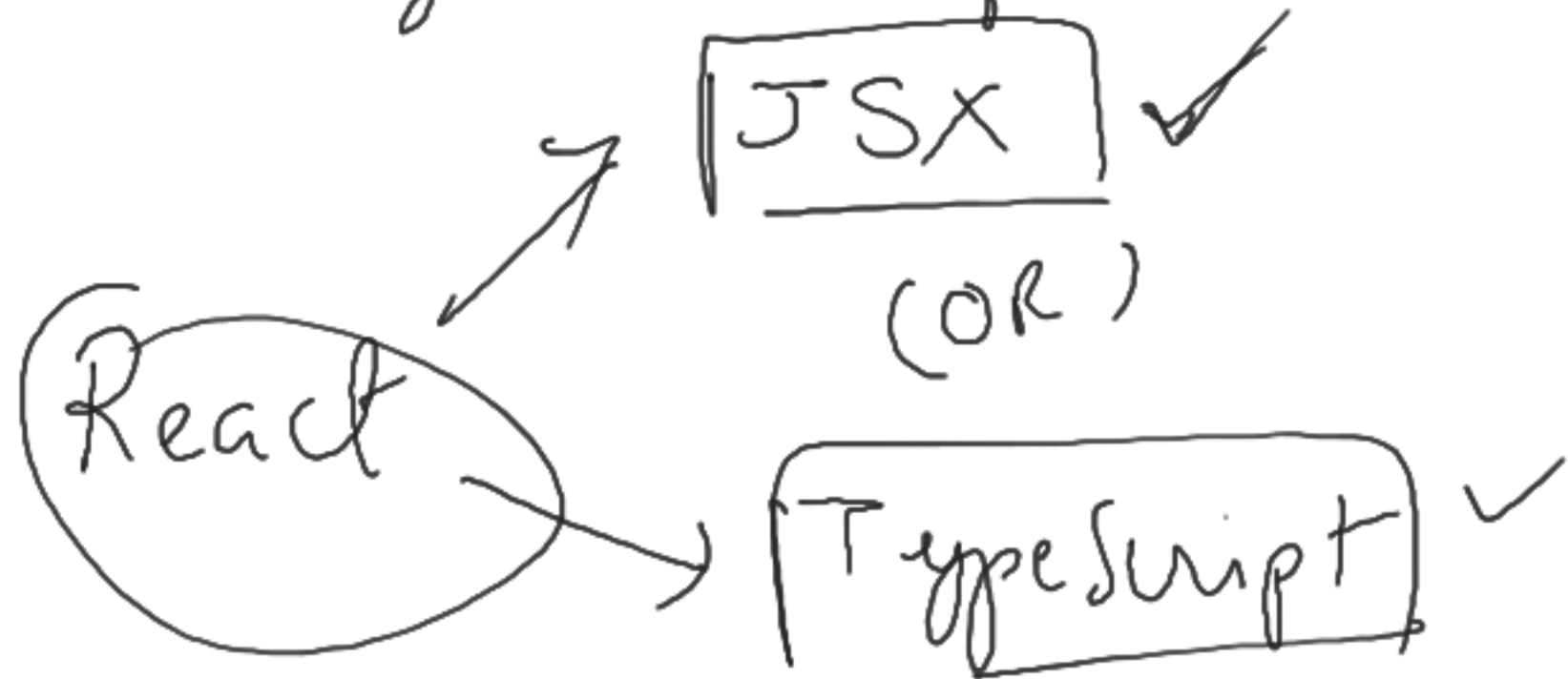
~~npm~~ ~~install~~ django

what is JSX?

language which is a combination of HTML and JS.

→ all feature of HTML ✓

→ all features of JS ✓



what is Component?

eg) App.js

* React uses Component based Architecture

*

Smallest part of the UI

* All the Components
are Reusable

UI is created by combining/Joining small elements
like Search Bars, AppBar, Image, Buttons, Icons, etc.

These small elements are called Components

Programmatically what is a Component ? → APP.js

function

- ① Every Comp in React is a function ✓
- ② Every Comp in React should return compulsory some JSX.
- ③ Whatever you want to display on the DOM that thing you will return from the Component.
- ④ Comp name should be in Capital letters as well as file name

⑤ Every Comp should be Exported.

Import & Export

importing 1 Comp from 1 file to another file.

import ComponentName from "file name"

import App from "./App.js"

Export → Make this Comp available for other files

~~★~~ ^{to use} Component that has been exported only those components can be imported into other files

Example

Comp1.js

Comp1 \rightarrow Comp Name

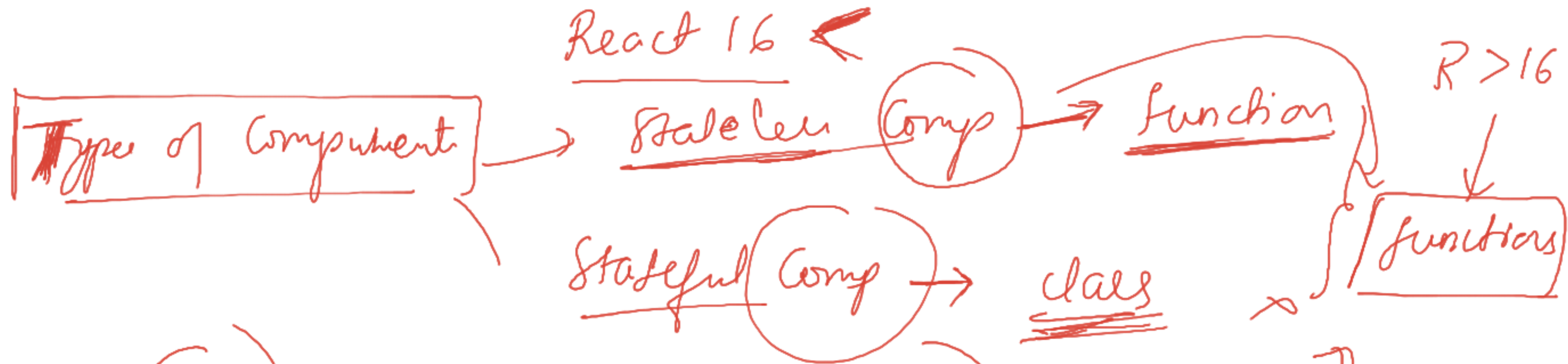
export default CompName

export default Comp1;

* Comp Call & Comp defⁿ \rightarrow funⁿ call & fun defⁿ

Comp2.js

import Comp1 from "Comp2.js"



Stateless Comp

↳ No change / Static Comp

Stateful Comp

↳ Change / Dynamic Comp

React fragments

< >

(React. fragment)

(or)

< / >

(/ React. fragment)

How to Create our Own Component

Step ① Create a new file — (App.js)

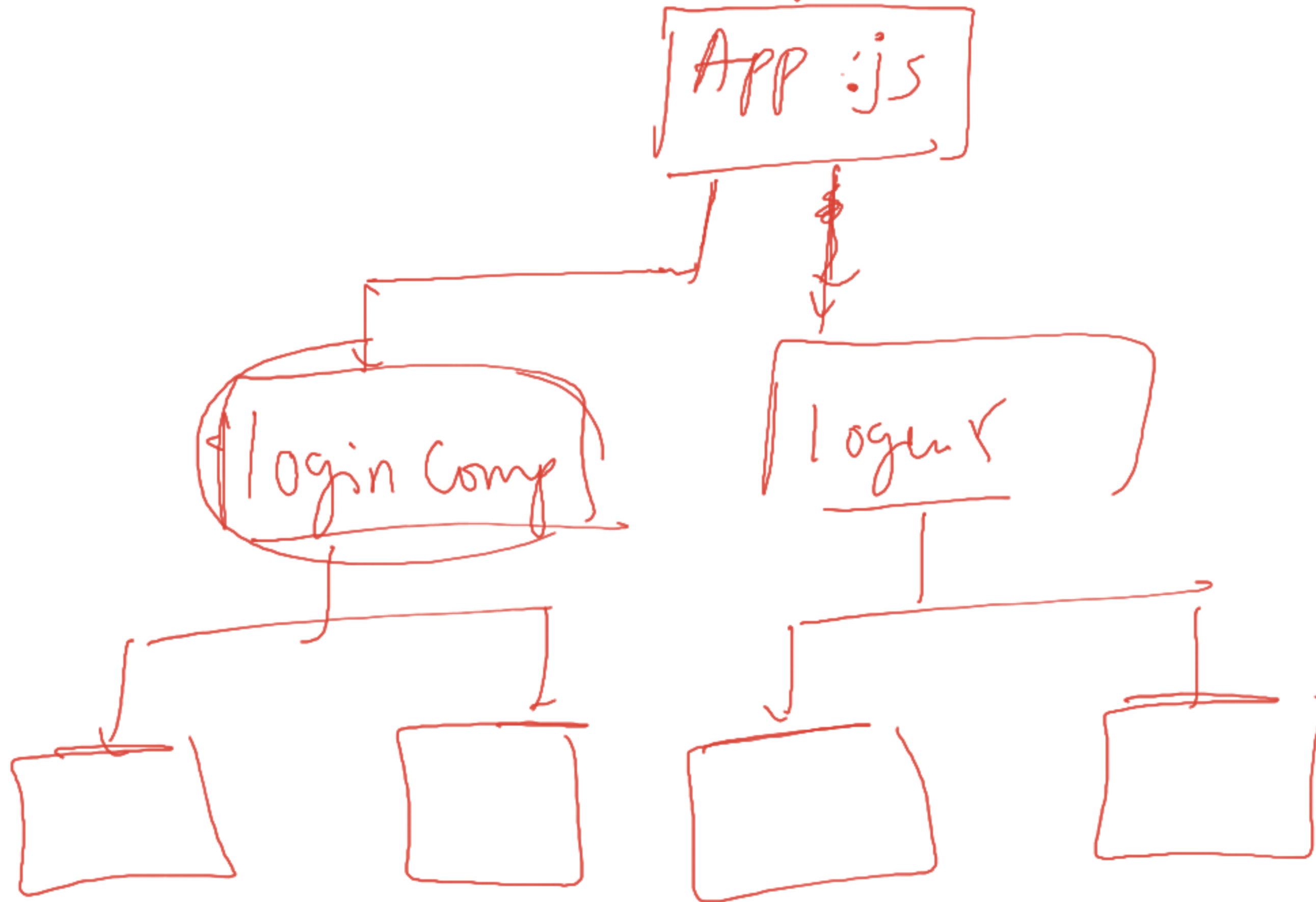
Step ② Create a New function inside that file

Step ③ Write some JSX inside it

Step ④ Export that fun?

Step ⑤ Call that fun? into some other file

React Component Tree



Assignment

I am App.js

App.js

Son.js

Daughter.js

I am Son

I am Daughter

Father

FB1

FB2

Son

Daughter

Son

Daughter

2

Son

Daughter

I Daughter

called

3 times

(checkable)