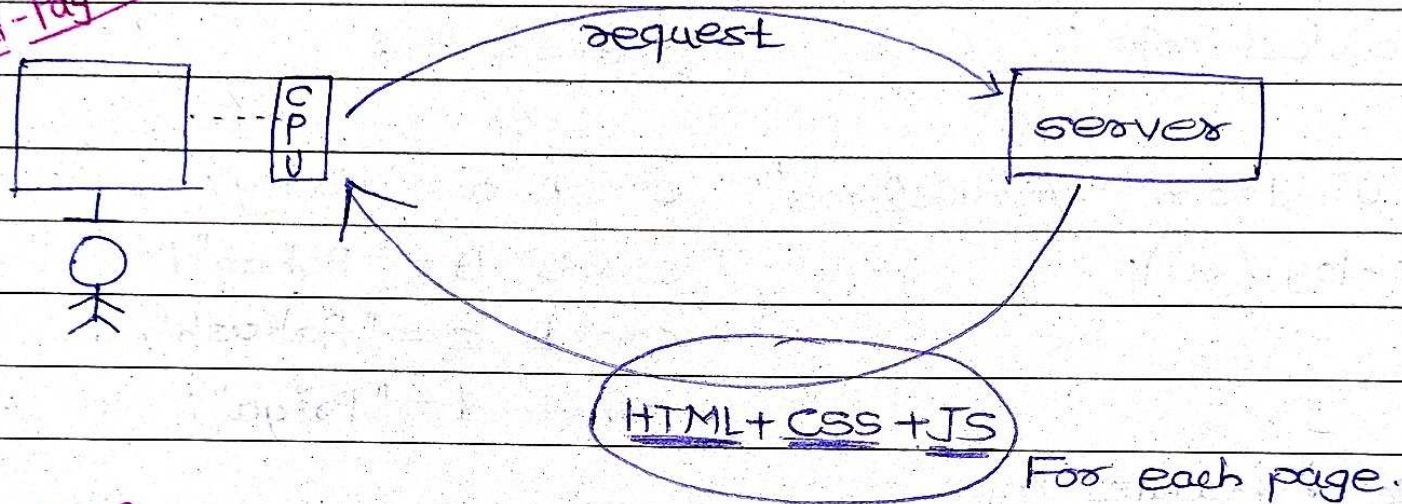


## ⑤ Multi Page Website / Single Page Website =

Multi-Page



Single-Page

Once HTML, CSS, JS is downloaded through response, the same page will be populated using Javascript and API's.

\* Node-modules has all dependencies. to create react-app.  
When we give code to someone, we delete this.  
we can add this folder using npm install.  
Hence we add folder in .gitignore.

\* Boots:trap = add in public/index.html

CSS → above title

&

Java → below ~~</body>~~ above body

||:00 min  
watch.



## \* To deploy the Project:

Use &gt; npm run build.

Optimized Version.

Page No.

Date

\* Don't add secrets in public folders.

## ⑥ Props &amp; its types in react =

Commit code until now.

&gt; git add.

&gt; git commit -m "Videos Completed"

\* See ES7 extension shortcuts.

- no need to import react, As we r using function-based components.

- named export / default export =

module1.mjs	module2.mjs
import ui from './module2.mjs'	const a = "Harry";
console.log(ui);	const b = "Rohan";
	const c = "Aakash";
	const d = "Priya";
> node ./module1.mjs	
Aakash	export default c;

- ~~default exp~~ named export =

import dz, {a, c, d} from	const a = " ";
'./module2.mjs'	const b = " ";
	const c = " ";
console.log(c);	const d = " ";
console.log(a);	export {a};
	export {c};
	export {d};



- 09:37 to 10:40

- 12:07 = props

= to change title dynamically.  
= 2 changes in 2 files.

Page No.  
Date

react  
function  
based  
component

① Navbar.js → `<{props.title}</title>`  
② App.js → `return {`

`<>`

`<Navbar title = "TextUtils" />`

`</>`

`};`

- `propTypes =`
  - `default propTypes =`
- } use both of them together.

\* Props & PropTypes are used for passing readOnly attributes between React Component.

\* PropTypes ensure that passed value is of correct datatype.

This makes sure that we don't receive an error at the very end of app, by the console, which might not be easy to deal with.

⑦ State & handling events in React =

- components / TextForm.js
- copy paste form code on bootstrap.

Check errors in console  
in every execution

\* state belong to one component.

\* 1. import React, {useState} from 'react'

2. const [text, setText] =

`useState('Enter text here');`

React hooks →  
State Variable

useState is 1 hook



11:00

\* to update state of text =

return (

- `<h1> { props.heading } - text {text} </h1>`
- `<textarea className="form-control" value = {text} id = "myBox">`

`</textarea>`

- `setText("new text");` // correct way.

19:00 23:00

☒ how to handle event

☒ how to set state

⑧ 01:10  
05:30

⑨ <sup>⑪⑬</sup> Exercise add other features text analyzer. 1

⑩ <sup>⑫⑬</sup> 01:00 component / About.js

"Enable Dark Mode" Button using useState Hook =

2

05:24

08:20

10:40

13:00

15:32

⑪ 03:40

⑬ Add auto-dismissing alert msg =

- components / Alert.js

⑭ Adding custom color theme

Exercise = ① add themes

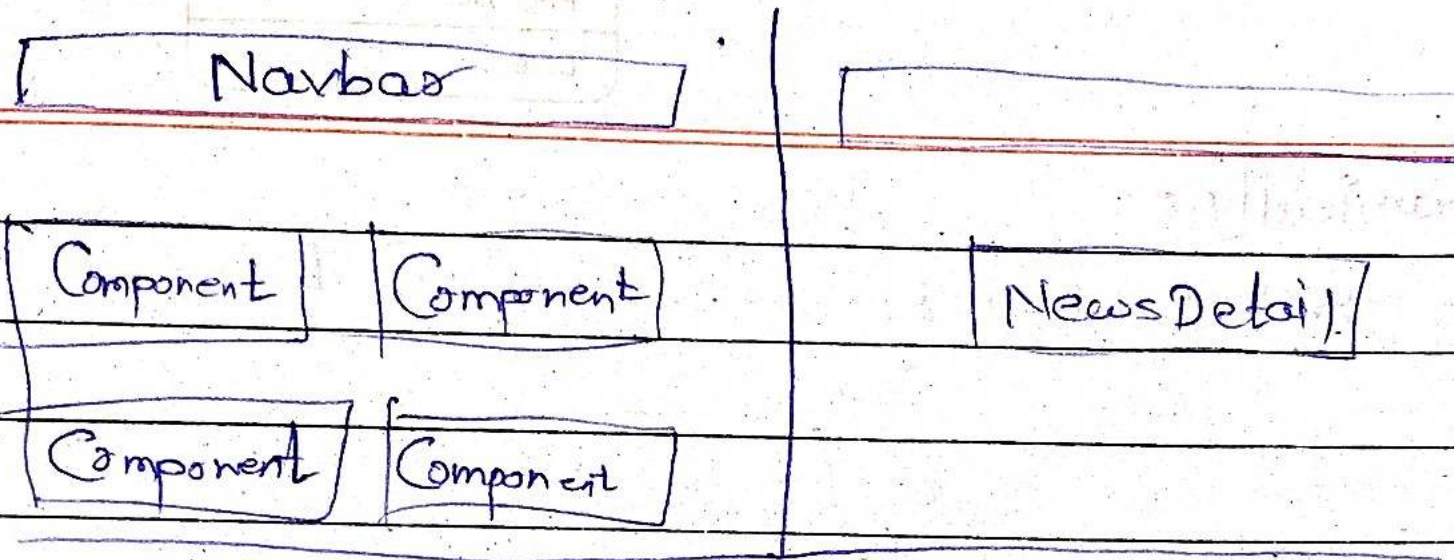
② Use JS to, not to count

empty string.





20  
22 Class based components = (News App)



Page No.

Date

=  $\propto$  cep with propTypes

- Props = we can't change
- State = we can change dynamically, without reloading page.



- Dependency

npm i -f --save axios @material-ui/core.

\* React-router =

① npm install react-router-dom

② Import BrowserRouter  
Switch

Route

Link in App.js

③ Close all tags like <Navbar>  
<News>

in <Router>

</Router> tag

④ Copy <Switch> tag above closing <Router> as it is.

⑤ Replace <a href = ..... with >  
<Link href = "/...">

⑥ Replace href with \*to\* =

React Component Lifecycle =

- Mounting = Birth of Component

- Update = Growth of Component

- Unmount the Component = Death of Component

Methods =

① render() =

- used to render html of component in react

- required for a class based component to render DOM

- It runs during mounting & updating of component

- render() method should be pure i.e

we cannot modify state inside it.



## ② ComponentDidMount()

- runs after component output has been rendered to DOM.

## ③ ComponentDidUpdate()

- invoked as soon as updating happens.
- updates DOM in response to prop or state changes.

## ④ componentWillUnmount()

- called just before component is unmounted and destroyed.
- used to perform cleanups.

\* Adding infinite scrolling to newsapp =

- Search = react-infinite-scroll.

npm install --save react-infinite-scroll-component.

→ News.js

■ infinite scroll = Only code added from react site.

■ React top loading bar =

- > npm install react-top-loading-bar

- Used in 2 ways: ① ref

② state ✓

→ App.js

□ Converting class based components app to function based =

- use react hooks.

- hooks = Features of class based components in function based components.

- It allows you to use state and other react features without writing class.

- hooks are functions which "hook into" React state and lifecycle features from function components.



Commonly used React hooks =

① useState = (text, setText)

② useEffect =

↳ can do work of componentDidMount.

③ useContext =

↳ when many components are there, complex structure.

↳ makes .. globally available.

④ useRef

↳ holder for DOM element

\* We can have both components in single app (class and function)

> git add .

> git commit -m "Commit msg"

> git remote add origin Link-http

> git remote

> git remote -v

> git push -u origin master

> git remote rm origin (remove origin)



- react detector = add to chrome

- react developer tools = add to chrome

- download NodeJS for react

- Component in ReactJS

- Create react component =

```
ReactDOM.render(
  React.createElement('ul', null,
    React.createElement('li', null, 'Item1'),
    React.createElement('li', null, 'Item2')
  ),
  document.getElementById('react-container')
)
</script>
```

- JSX in React JS =

Copy and paste bable.min.js <script> line in head and use directly.

```
ReactDOM.render(
  <ul>
    <li> --- </li>
  </ul>
)
```

- Class based Component =

```
export class News extends Component {
  static defaultProps = {
  }
  static propTypes = {
  }
  constructor(props) {
    super(props);
    this.state = {
    }
  }
}
```



export class News extends Component {

Page No.

Date

async updateNews () {

    this.setState ( {            } )

}

render () {

    return (

        <>

    </>

)

}

}

- Stateless Component in react =

const myComponent = () => {

    return <div> hello

    </div>

}

- Props in react =

"business"

<News category = {category} />

render () { return <>

    <h1> {this.props.category} </h1>

    </>

}

<News category = "general" />

- events in reactJS =

class News extends Component {

    editing () {

    }

    render () {

        return (

            <div>

        <button onClick =

        {"this.editing"} />



- State in ReactJS =

[ Refs in React JS =

→ to get value of textarea

```
<textarea ref = "newText"/>
```

```
save = () => {  
  var val = this.refs.newText.value;  
  console.log(val);  
}
```

JSX = Javascript XML

- JSX allows us to write html in React
- It is a syntax extension to Javascript based in ES6, "newest version of Javascript"
- JSX allows to write html in React, by converting HTML into React components.

ES6 = (2015)

- ECMA Script 6th version.
- created to standardize Javascript

Babel in React =

- toolchain used to convert ECMAScript 2015+ code into a backwards compatible version of Javascript in current and older browsers or environments.
- helps developers use latest Javascript features, without worrying about support for said features in older browsers.