

## VIDEO 105

index.html

Readme.md

withoutreact.html

withoutreact.html &gt; html &gt; body &gt; button#btn

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7  </head>
8  <body>
9      <div id="counter">0</div>
10     <button id="btn">Click me</button>
11     <script>
12         document.getElementById("btn").addEventListener("click", ()=>{
13             let num = parseInt(document.getElementById("counter").innerHTML)
14             document.getElementById("counter").innerHTML = num + 1;
15         })
16     </script>
17 </body>
18 </html>
```



Quick Start – React | Installation – React | Tutorial: Tic-Tac-Toe – React | Why React? | Create React App | React (software) – Wikipedia | Document

Sigma Web Developme... GitHub - CodeWithHarr... Learn to code online - C... Es with Express

Create React App

Set up a modern web app by running one command.

[Get Started](#)

**Less to Learn**

You don't need to learn and configure many build tools. Instant reloads help you focus on development. When it's time to deploy, your bundles are optimized automatically.

**Only One Dependency**

Your app only needs one build dependency. We test Create React App to make sure that all of its underlying pieces work together seamlessly – no complicated version mismatches.

**No Lock-In**

Under the hood, we use webpack, Babel, ESLint, and other amazing projects to power your app. If you ever want an advanced configuration, you can "eject" from Create React App and edit their config files directly.

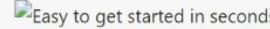
**Get started in seconds**

Whether you're using React or another library, Create React App lets you **focus on code, not build tools**.

To create a project called *my-app*, run this command:

```
npx create-react-app my-app
```

Copied





10°C Fog

Search

Clouds, Sun, Temperature, Weather icons

ENG IN

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The screenshot shows a Microsoft Visual Studio Code (VS Code) interface. On the left is the Explorer sidebar with a tree view of files. A yellow arrow points from the 'with-react' folder icon to the 'withoutreact.html' file tab in the center. The main area displays the code for 'withoutreact.html'. A blue arrow points from the terminal tab at the bottom to the terminal window below. The terminal shows a command being run: 'npx create-react-app with-react'. The output of the command is visible, showing the creation of a new React app named 'with-react' in the specified directory.

EXPLORER ...

VIDEO 105

> with-react index.html Readme.md withoutreact.html

index.html withoutreact.html X Readme.md

withoutreact.html > html > body > button#btn

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <div id="counter">0</div>
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node +

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 105> npx create-react-app with-react

Creating a new React app in C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 105\with-react.

Installing packages. This might take a couple of minutes.

Installing react, react-dom, and react-scripts with cra-template...

[.....] \ idealTree:with-react: sill idealTree buildDeps



10°C Fog

Search

Ln 10, Col 39 Spaces: 4 UTF-8 CRLF HTML Port: 3000

ENG IN Sun



EXPLORER ...

WITH-REACT

- > node\_modules
- > public
- > src
- !.gitignore
- package-lock.json
- package.json
- README.md

npm package.json X

npm package.json > {} scripts

```
11   "react-scripts": "5.0.1",
12   "web-vitals": "^2.1.4"
13 },
14   ▷ Debug
15   "scripts": {
16     "start": "react-scripts start",
17     "build": "react-scripts build",
18     "test": "react-scripts test",
19     "eject": "react-scripts eject"
20   },
21   "eslintConfig": {
22     "extends": [
23       "react-app"
24     ]
25   }
26 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

powershell + ▾

PS C:\Users\iitia\Downloads\Sigma Web Development Course\Sigma-Web-Dev-Course\Video 105\with-react> npm start

Ln 15, Col 36 (31 selected) Spaces: 2 UTF-8 LF {} JSON

11°C Fog

Search

Windows Start

Clouds

Calendar

Chrome

VS Code

File Explorer

Terminal

Subscriptions

Sun

EXPLORER ...

WITH-REACT

- > node\_modules
- > public
- > src
- !.gitignore
- package-lock.json
- package.json
- README.md

npm package.json X

npm package.json > {} scripts

```
11   "react-scripts": "5.0.1",
12   "web-vitals": "^2.1.4"
13 },
14   ▷ Debug
15   "scripts": {
16     "start": "react-scripts start",
17     "build": "react-scripts build",
18     "test": "react-scripts test",
19     "eject": "react-scripts eject"
20   },
21   "eslintConfig": {
22     "extends": [
23       "react-app"
24     ]
25   }
26 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

node + - X

Compiled successfully!

You can now view **with-react** in the browser.

Local: http://localhost:3000 ←  
On Your Network: http://192.168.1.199:3000

Note that the development build is not optimized.  
To create a production build, use `npm run build`.

webpack compiled **successfully**

YESBANX Earnings

Search

Spaces: 2 UTF-8 LF {} JSON

ENG IN Sun



EXPLORER ...

WITH-REACT    

node\_modules

public    

harry.txt 

public > harry.txt

1 Hey harry

index.html

logo192.png

logo512.png

manifest.json

robots.txt

src

.gitignore

package-lock.json

package.json

README.md



Ln 1, Col 10 Spaces: 4 UTF-8 CRLF Plain Text

YESBANx Earnings

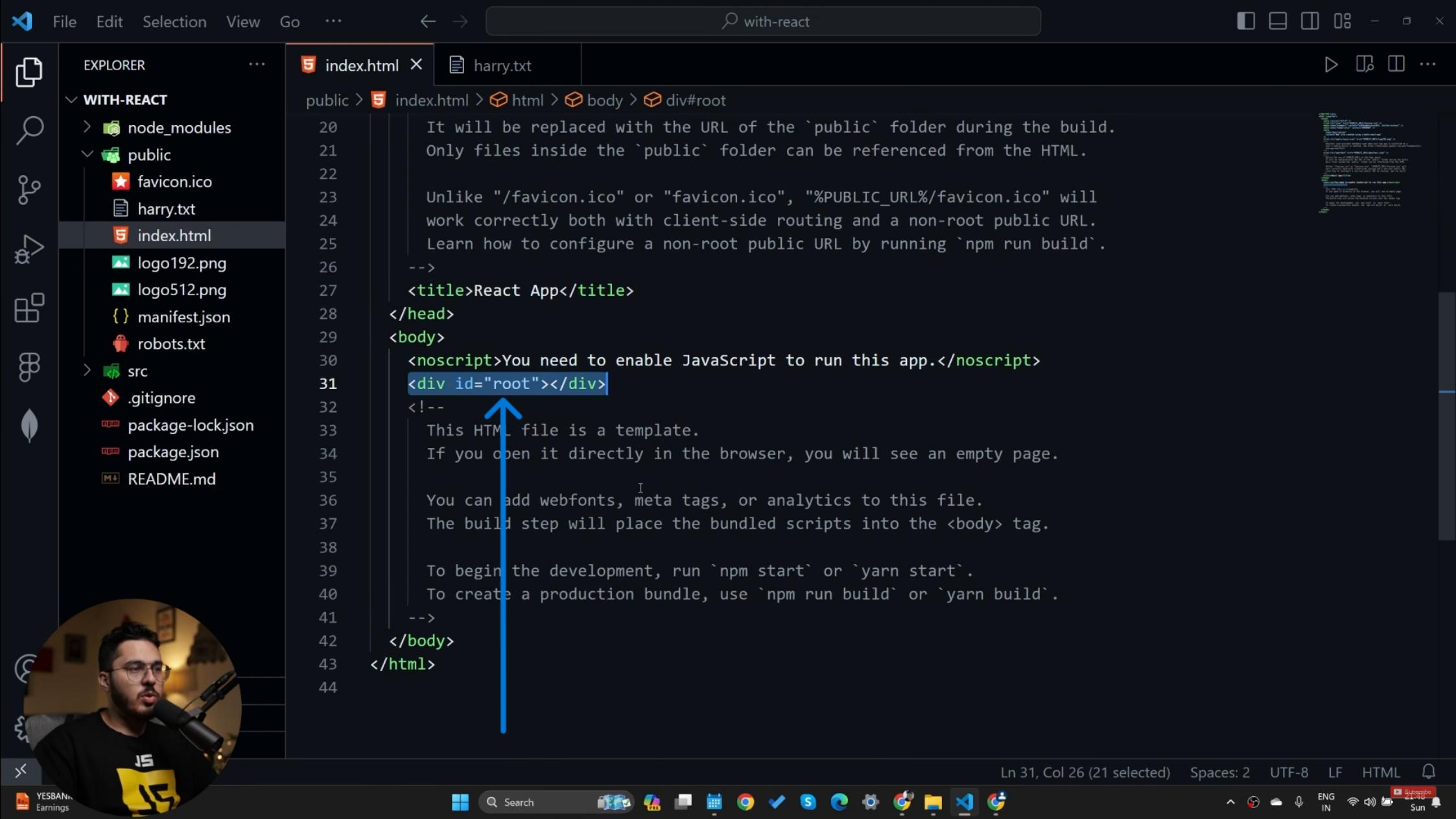


Search

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Hey harry





File Edit Selection View Go ... ← → ⚡ with-react

EXPLORER ...

WITH-REACT

- > node\_modules
- public
  - favicon.ico
  - harry.txt
  - index.html
- logo192.png
- logo512.png
- { } manifest.json
- robots.txt
- src
- .gitignore
- npm package-lock.json
- npm package.json
- README.md



index.html x harry.txt

public > index.html > html > body > div#root

```
20  It will be replaced with the URL of the `public` folder during the build.  
21  Only files inside the `public` folder can be referenced from the HTML.  
22  
23  Unlike "/favicon.ico" or "favicon.ico", "%PUBLIC_URL%/favicon.ico" will  
24  work correctly both with client-side routing and a non-root public URL.  
25  Learn how to configure a non-root public URL by running `npm run build`.  
-->  
<title>React App</title>  
</head>  
<body>  
  <noscript>You need to enable JavaScript to run this app.</noscript>  
  <div id="root"></div>  
  <!--  
    This HTML file is a template.  
    If you open it directly in the browser, you will see an empty page.  
-->  
  I  
  You can add webfonts, meta tags, or analytics to this file.  
  The build step will place the bundled scripts into the <body> tag.  
36  
37  
38  
39  To begin the development, run `npm start` or `yarn start`.  
40  To create a production bundle, use `npm run build` or `yarn build`.  
41 -->  
42 </body>  
43 </html>
```

Ln 31, Col 26 (21 selected) Spaces: 2 UTF-8 LF HTML

YESBANx Earnings

Search

Microsoft Edge

Google Chrome

Safari

Firefox

Opera

Edge DevTools

File Explorer

Task View

System

Network

Power

Help

IN ENG

Subscribed 21-18 Sun



EXPLORER ...

WITH-REACT

- > node\_modules
- > public
- < src
  - App.css
  - JS App.js
  - JS App.test.js
  - index.css
  - JS index.js
  - SVG logo.svg
  - JS reportWebVitals.js
  - JS setupTests.js
  - .gitignore
  - npm package-lock.json
  - npm package.json
  - M README.md



index.html JS index.js X harry.txt

```
src > JS index.js > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import './index.css';
4 import App from './App';
5 import reportWebVitals from './reportWebVitals';

7 const root = ReactDOM.createRoot(document.getElementById('root'));
8 root.render(
9   <React.StrictMode>
10    <App />
11  </React.StrictMode>
12);
13
14 // If you want to start measuring performance in your app, pass a function
15 // to log results (for example: reportWebVitals(console.log))
16 // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
17 reportWebVitals();
18
```



File Edit Selection View Go ... ← → ⚡ with-react

EXPLORER WITH-REACT ...

index.html withoutreact.html App.js App.css harry.txt

src > App.js > App

```
1 import logo from './logo.svg';
2 import { useState } from 'react';
3 import "./App.css"
4
5
6 function App() {
7   const [value, setValue] = useState(0)
8
9   return (
10    <div className="App">
11      <div className='value'> {value}</div>
12      <button onClick={()=>{setValue(value + 1)}}>Click me</button>
13    </div>
14  );
15}
16
17 export default App;
```

Ln 10, Col 26 Spaces: 2 UTF-8 LF {} JavaScript JSX

11°C Fog

Search

11°C Fog

```
# Reactjs :  
  
# State: A variable which we can use in the DOM and also can change it.  
=> CODE  
  
import { useState } from 'react';  
  
function App( ) {  
    const [value, setValue] = useState(0) // Here '0' is Default Value  
  
    return (  
        <div className="App"> {value} </div>  
        // Here "className" because "class" is a keyword in Javascript oops  
    );  
}  
  
export default App;
```

EXTENSIONS ⏪ ...

Search Extensi... ⌂

INSTALLED 16

- Code Runner** ⏪ 40ms  
Run C, C++, Java, JS, PHP...  
Jun Han
- EJS language support**  
2019 - EJS language supp...  
DigitalBrainstem
- ES7 React/Redux/Grap...**  
Simple extensions for Rea...  
rodrigovallades
- ES7+ React/Re...** ⏪ 124ms  
Extensions for React, Rea...  
dsznajder
- Figma for VS Code** ⏪ 54ms  
Bring Figma into the text ...

RECOMMENDED 8



index.html withoutreact.html App.js Extension: ES7+ React/Redux/React-Native snippets Navbar.js

**ES7+ React/Redux/React-Native snippets** v4.4.3

dsznajder | 10,533,363 | ★★★★★ (72)

Extensions for React, React-Native and Redux in JS/TS with ES7+ syntax. Customizable. Built...

Disable | Uninstall | ⚡

This extension is enabled globally.

DETAILS FEATURE CONTRIBUTIONS CHANGELOG RUNTIME STATUS

## VS Code ES7+ React/Redux/React-Native/JS snippets

JavaScript and React/Redux snippets in ES7+ with Babel plugin features for [VS Code](#)

### Installation

#### Visual Studio Marketplace

Launch Quick Open:

- Linux: Ctrl+P

Categories

Snippets

Extension Resources

Marketplace Repository License dsznajder

More Info

Published 2017-06-08, 00:32:50

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Search

11°C Fog

ENG IN

Sun



EXTENSIONS ⏵ ...

Search Extensi... ⏷

INSTALLED 16

- Code Runner** ⏳ 40ms  
Run C, C++, Java, JS, PHP...  
Jun Han
- EJS language support**  
2019 - EJS language supp...  
DigitalBrainstem
- ES7 React/Redux/Grap...**  
Simple extensions for Rea...  
rodrigovallades
- ES7+ React/Re...** ⏳ 124ms  
Extensions for React, Rea...  
dsznajder
- Figma for VS Code** ⏳ 54ms  
Bring Figma into the text ...

RECOMMENDED 8

- 30.5M te, ... **Install**
- 2.5M ...

LN 1, COL 6 Spaces: 4 UTF-8 CRLF {} JavaScript

1 rafce

rafce reactArrowFunctionExportComponent  
rafce reactArrowFunctionExportComponent  
[e] ReadableStreamDefaultController

Creates a React Arrow Function Component with ES7 module system (ES7 React/Redux/GraphQL/React-Native snippets)

```
import React from 'react'

const = () => {
  return (
    <div>

    </div>
  )
}

export default
```

11°C Fog

Search

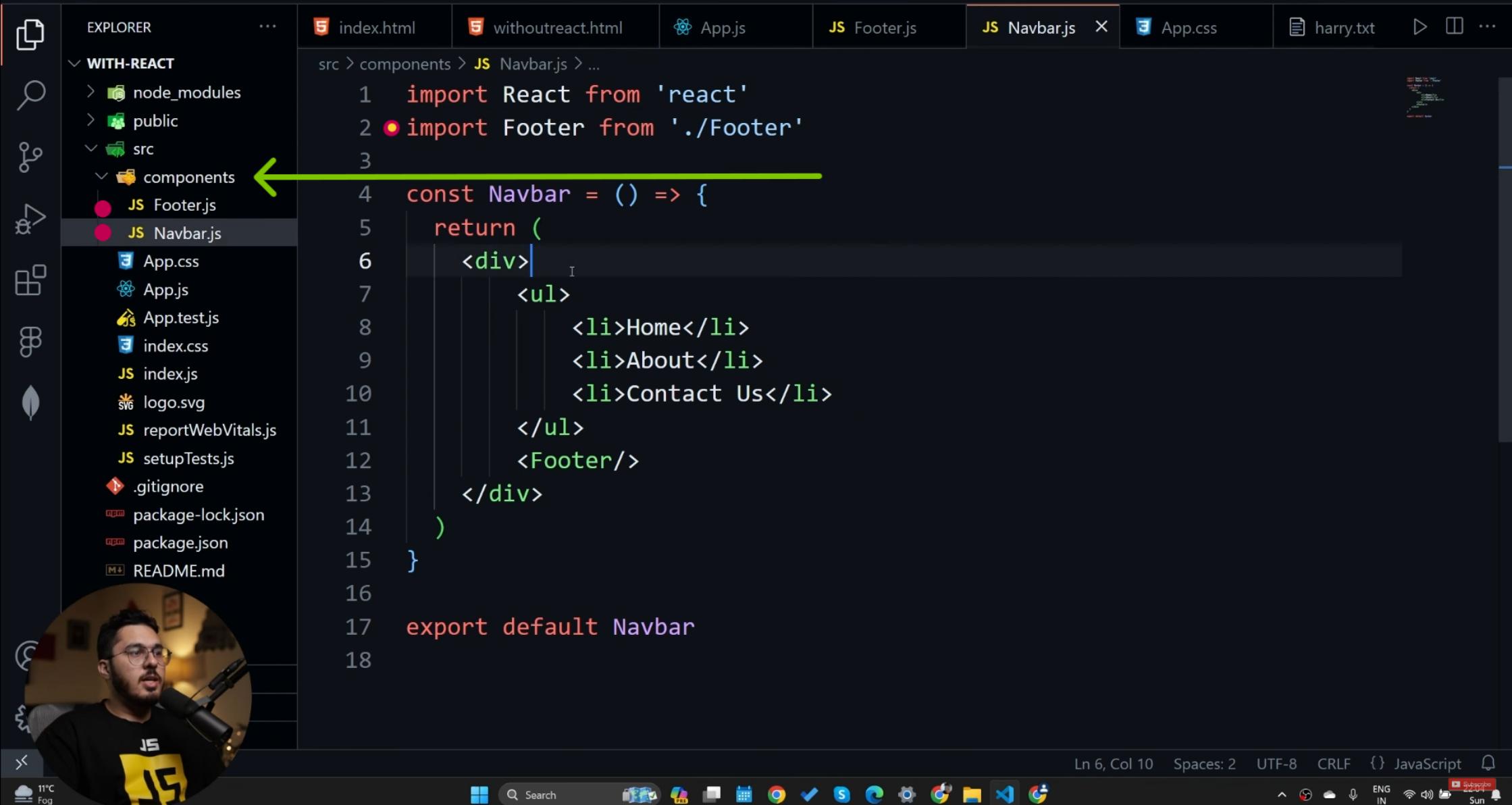
Windows Start

Cloud Sun

ENG IN

Subscribed

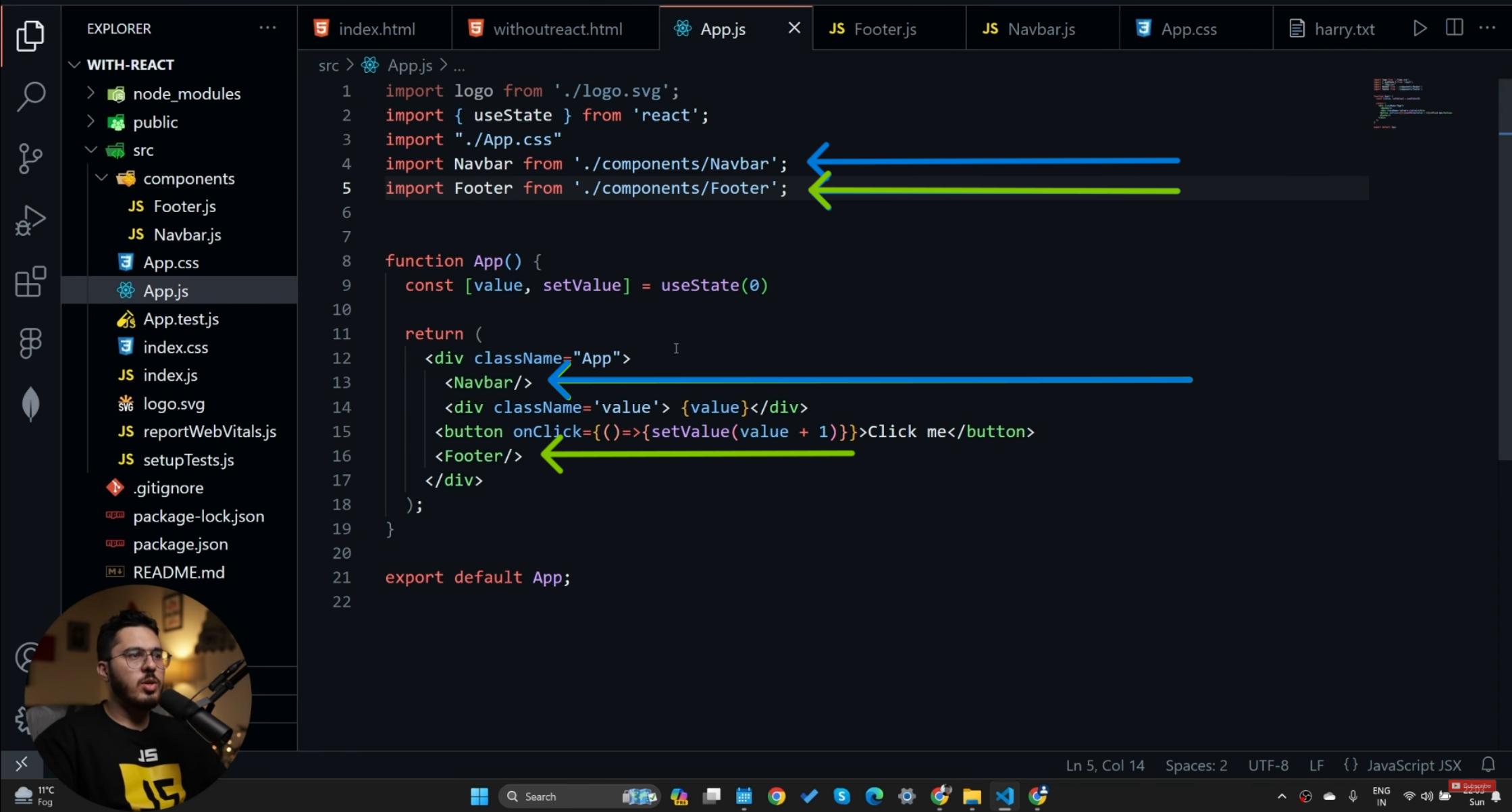
Sun



The screenshot shows a dark-themed instance of Visual Studio Code (VS Code) with the following interface elements:

- Left Sidebar (Explorer):** Shows the project structure under "WITH-REACT". The "components" folder is expanded, revealing "Footer.js" and "Navbar.js". A green arrow points from the "components" folder to the "import Footer" line in the code editor.
- Top Bar:** Includes file navigation buttons (Back, Forward, Home), a search bar containing "with-react", and window control buttons (Minimize, Maximize, Close).
- Code Editor:** Displays the content of "Navbar.js". The code defines a functional component "Navbar" that returns a 

element containing a 
 with three   - items ("Home", "About", "Contact Us") and a  component.
  - Bottom Status Bar:** Shows the current line (Ln 6, Col 10), character spacing (Spaces: 2), encoding (UTF-8), file type (CRLF), and the language being edited (JavaScript). It also includes system status icons for battery, signal, and network.
  - Bottom Taskbar:** Features icons for various applications including File Explorer, Task Manager, and the Start button.



EXPLORER ...

WITH-REACT

- > node\_modules
- > public
- < src
  - components
    - JS Footer.js
    - JS Navbar.js
  - App.css
  - App.js
  - App.test.js
  - index.css
  - index.js
  - logo.svg
  - reportWebVitals.js
  - setupTests.js
- .gitignore
- package-lock.json
- package.json
- README.md

index.html withoutreact.html App.js Footer.js Navbar.js App.css harry.txt

```
src > App.js > ...
1 import logo from './logo.svg';
2 import { useState } from 'react';
3 import "./App.css"
4 import Navbar from './components/Navbar';
5 import Footer from './components/Footer';

function App() {
  const [value, setValue] = useState(0)

  return (
    <div className="App">
      <Navbar/>
      <div className='value'> {value}</div>
      <button onClick={()=>{setValue(value + 1)}}>Click me</button>
      <Footer/>
    </div>
  );
}

export default App;
```

Ln 5, Col 14 Spaces: 2 UTF-8 LF {} JavaScript JSX

11°C ENG IN Sun



## EXPLORER

...

## WITH-REACT

&gt; node\_modules

&gt; public

&gt; src

&gt; components

JS Footer.js

Navbar.js

App.css

App.js

App.test.js

index.css

index.js

logo.svg

reportWebVitals.js

setupTests.js

.gitignore

package-lock.json

package.json

README.md



index.html

withoutreact.html

App.js

Footer.js

Navbar.js

App.css

harry.txt

```
src > components > Navbar.js > [o] Navbar
  1 import React from 'react'
  2 import Footer from './Footer'
  3 
  4 const Navbar = ({logoText}) => {
  5   return (
  6     <div>
  7       <div className="logo">{logoText}</div>
  8       <ul>
  9         <li>Home</li>
 10        <li>About</li>
 11        <li>Contact Us</li>
 12      </ul>
 13      <Footer/>
 14    </div>
 15  )
 16 }
 17
 18 export default Navbar
 19
```

15

Ln 4, Col 27 (10 selected)

Spaces: 2 CRLF {} JavaScript JSX

ENG IN Subtitle Sun



EXPLORER ...

WITH-REACT

- > node\_modules
- > public
- src
  - components
    - JS Footer.js
    - Navbar.js
  - App.css
  - App.js
  - App.test.js
  - index.css
  - JS index.js
  - SVG logo.svg
  - JS reportWebVitals.js
  - JS setupTests.js
  - .gitignore
  - package-lock.json
  - package.json
  - README.md

index.html withoutreact.html App.js Footer.js Navbar.js X App.css harry.txt

src > components > Navbar.js > [e] Navbar

```
1 import React from 'react'
2 import Footer from './Footer'
3 
4 const Navbar = (props) => {
5   return (
6     <div>
7       <div className="logo">{props.logoText}</div>
8       <ul>
9         <li>Home</li>
10        <li>About</li>
11        <li>Contact Us</li>
12      </ul>
13      <Footer/>
14    </div>
15  )
16 }
17
18 export default Navbar
19
```

2nd

Ln 4, Col 22 (5 selected) Spaces: 2 UTF-8 CRLF {} JavaScript JSX

11°C Fog

Search

Windows Taskbar

Subscribers 2200 Sun



EXPLORER ...

WITH-REACT

- > node\_modules
- > public
- src
  - components
    - Footer.js
    - Navbar.js
  - App.css
  - App.js
  - App.test.js
  - index.css
  - index.js
  - logo.svg
  - reportWebVitals.js
  - setupTests.js
  - .gitignore
  - package-lock.json
  - package.json
  - README.md

index.html withoutreact.html App.js Footer.js Navbar.js App.css harry.txt

src > App.js > App

```
1 import logo from './logo.svg';
2 import { useState } from 'react';
3 import "./App.css"
4 import Navbar from './components/Navbar';
5 import Footer from './components/Footer';
6
7
8 function App() {
9     const [value, setValue] = useState(0)
10
11     return (
12         <div className="App">
13             <Navbar logoText="CodeWithCWHHarry"/> ←
14             <div className='value'> {value}</div>
15             <button onClick={()=>{setValue(value + 1)}}>Click me</button>
16             <Footer/>
17         </div>
18     );
19 }
```

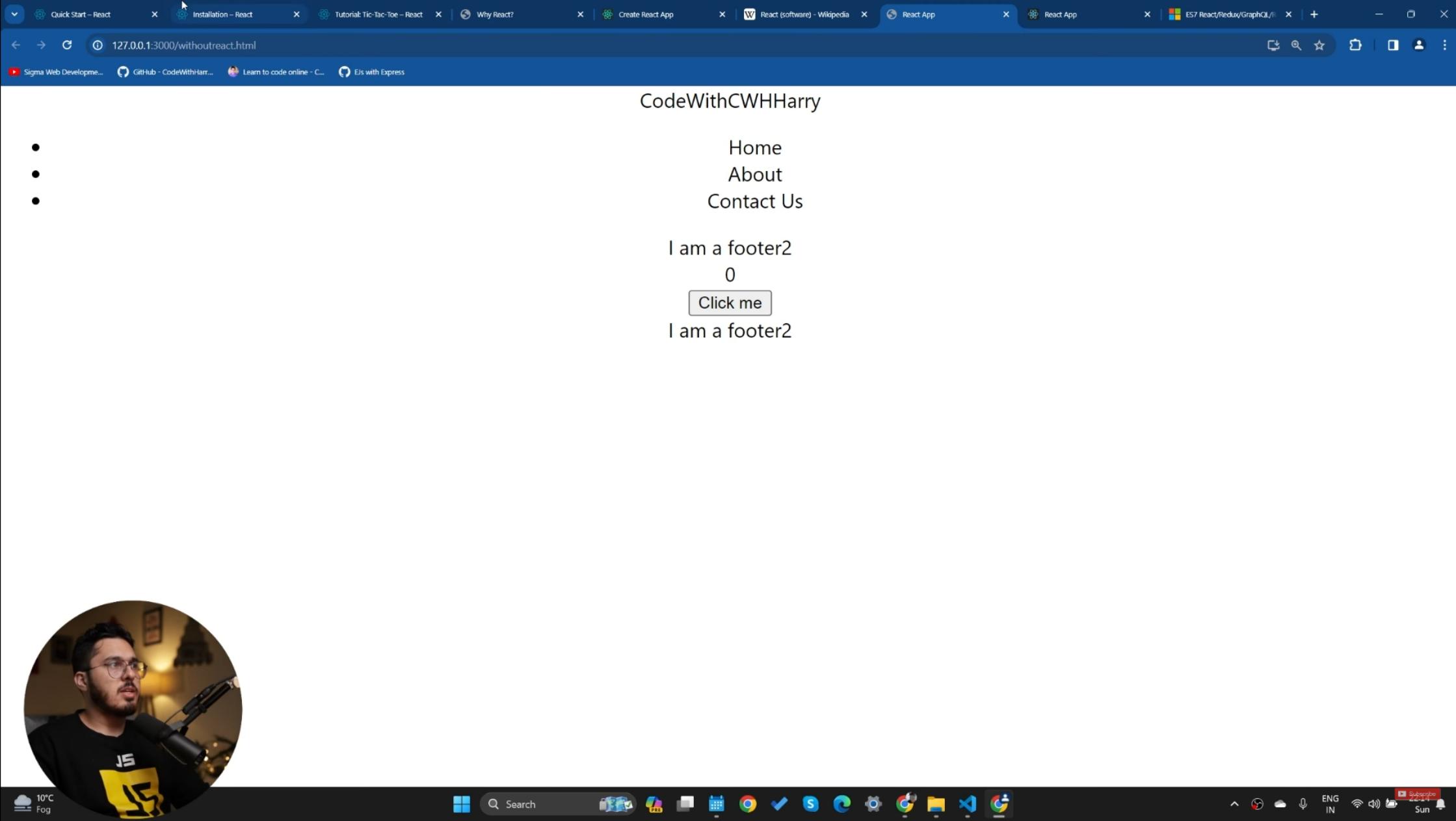
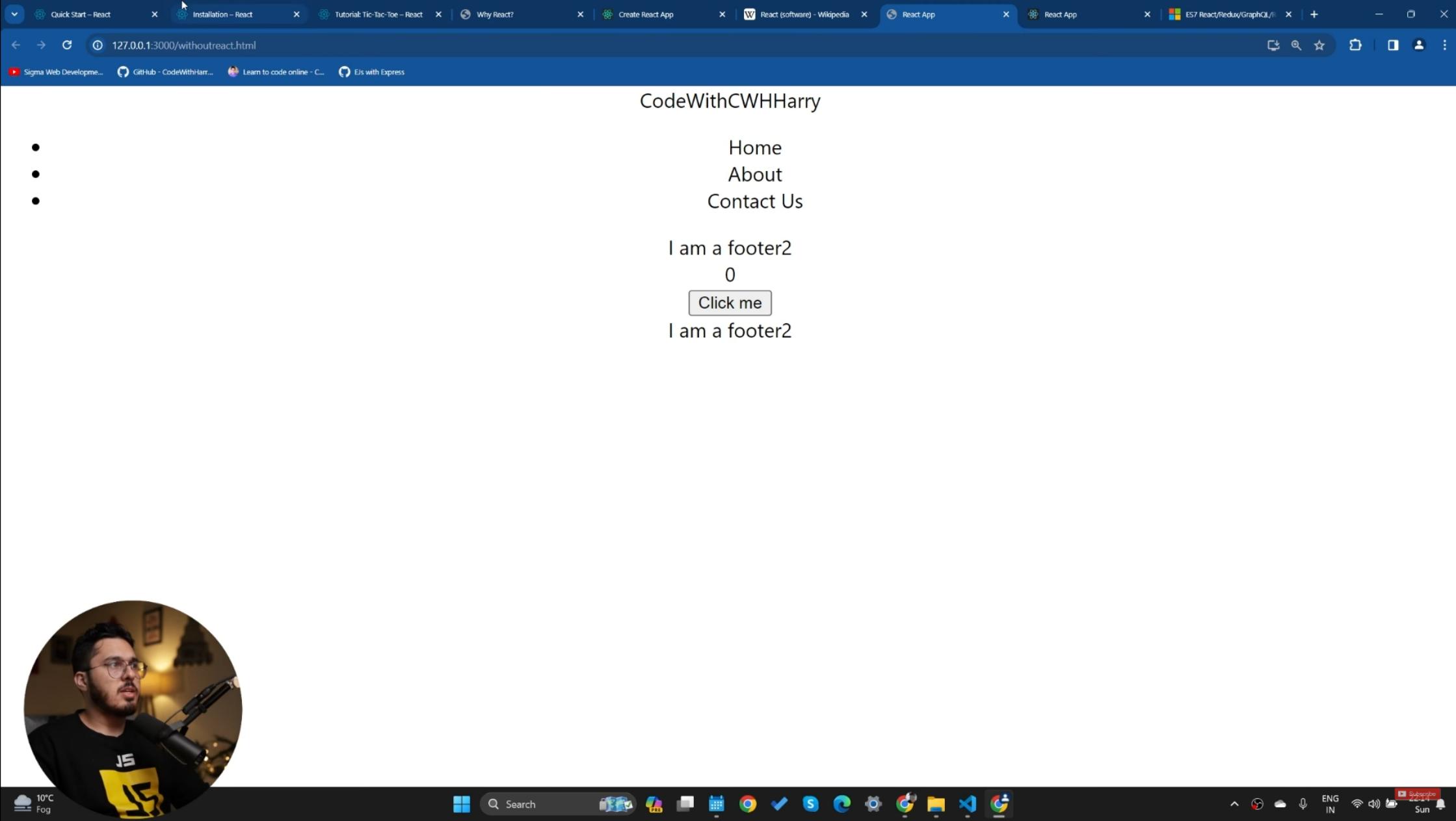
Ln 13, Col 36 Spaces: 2 UTF-8 LF {} JavaScript JSX

11°C Fog

Search

Windows Taskbar

Subscribed Sun





EXPLORER ...

VIDEO 105    

with-react

- > node\_modules
- > public
- > src
- .gitignore
- package-lock.json
- package.json
- README.md

index.html Readme.md withoutreact.html

index.html withoutreact.html Readme.md X

Readme.md > # Why React?

```
1 # Why React?
2 - We can use states which means that once we update the state variable, it changes across the page
3 - We can split our app into multiple components and reuse those components
4 - React uses a virtual DOM to efficiently update the UI which is better than updating content using DOM Manipulation
5 - Debugging and maintainance is easy
6
```