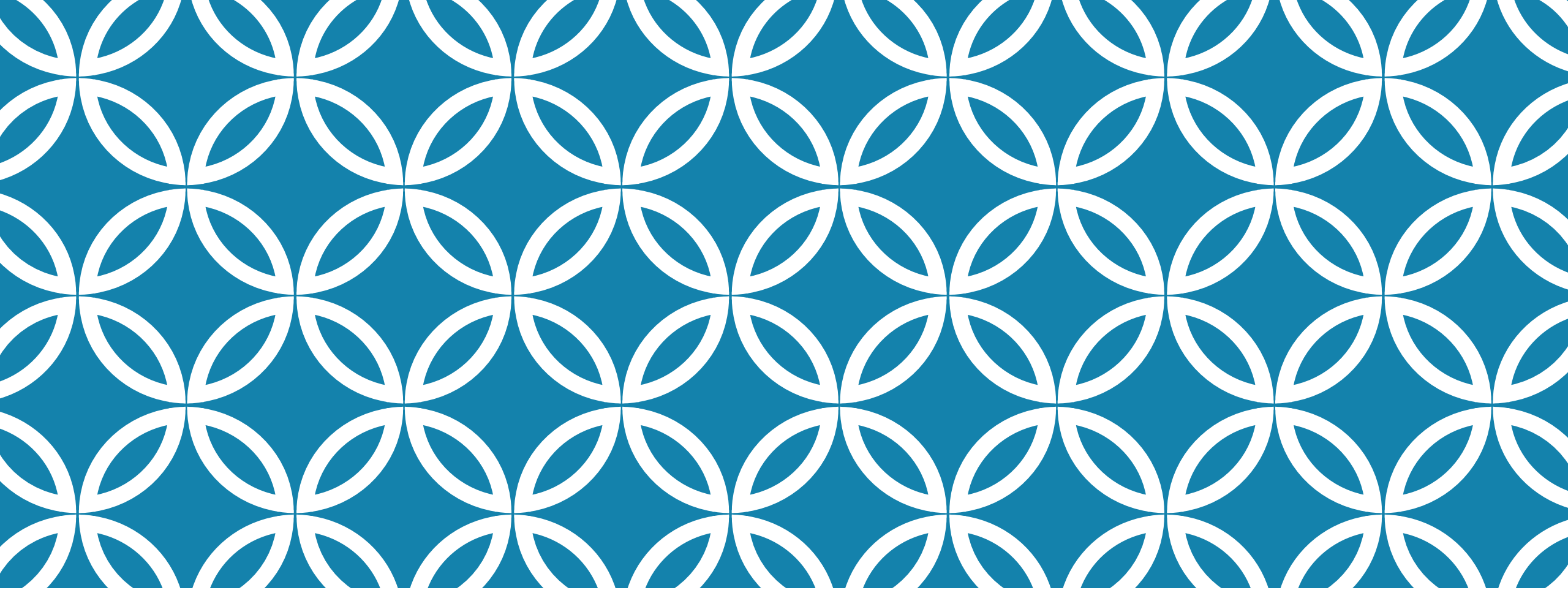


LECTURE #4

By: Aqib Rehman

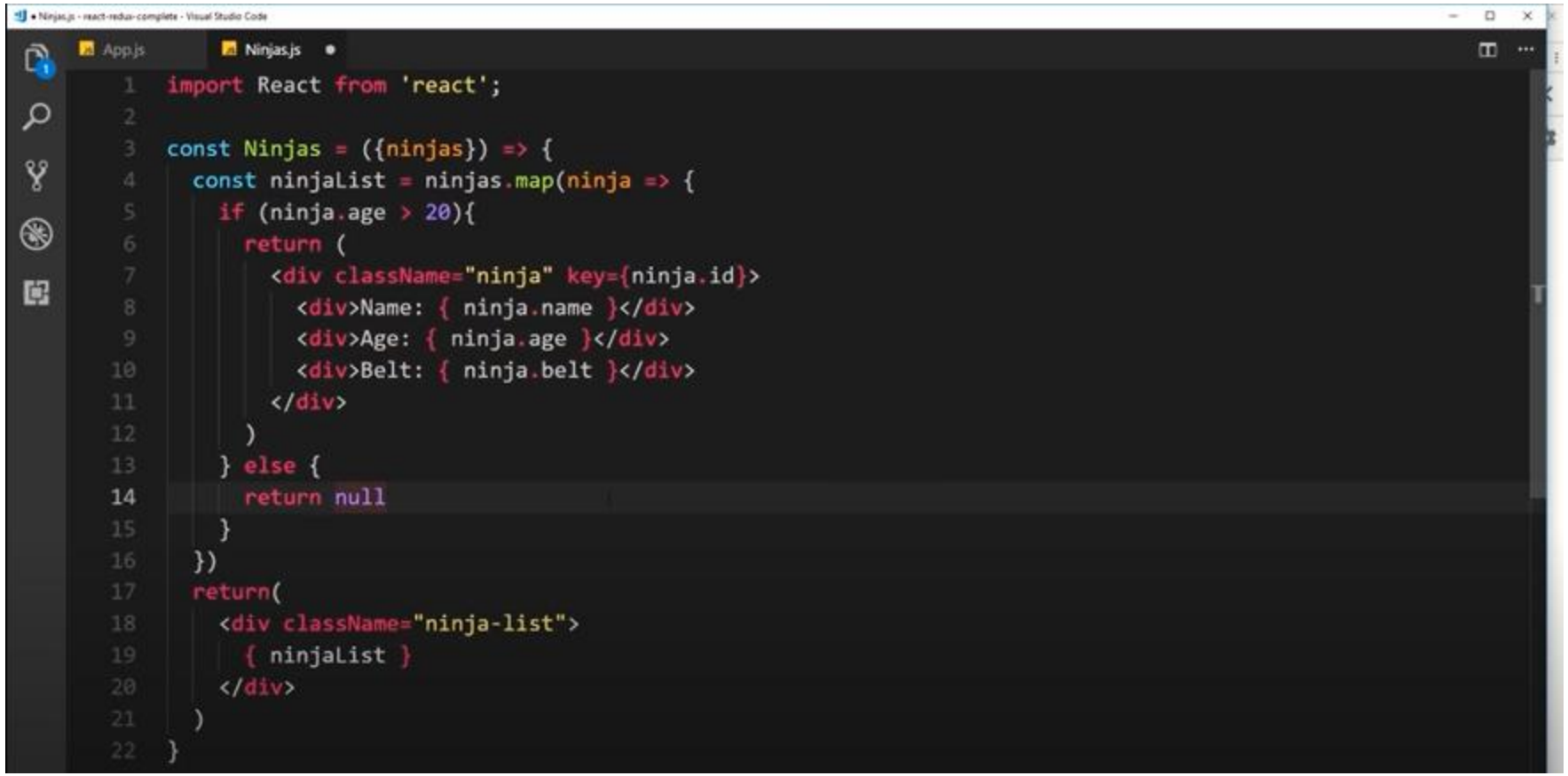
OUTLINE

Conditional Output

Forms Revisited

Functions as Props

CONDITIONAL OUTPUT

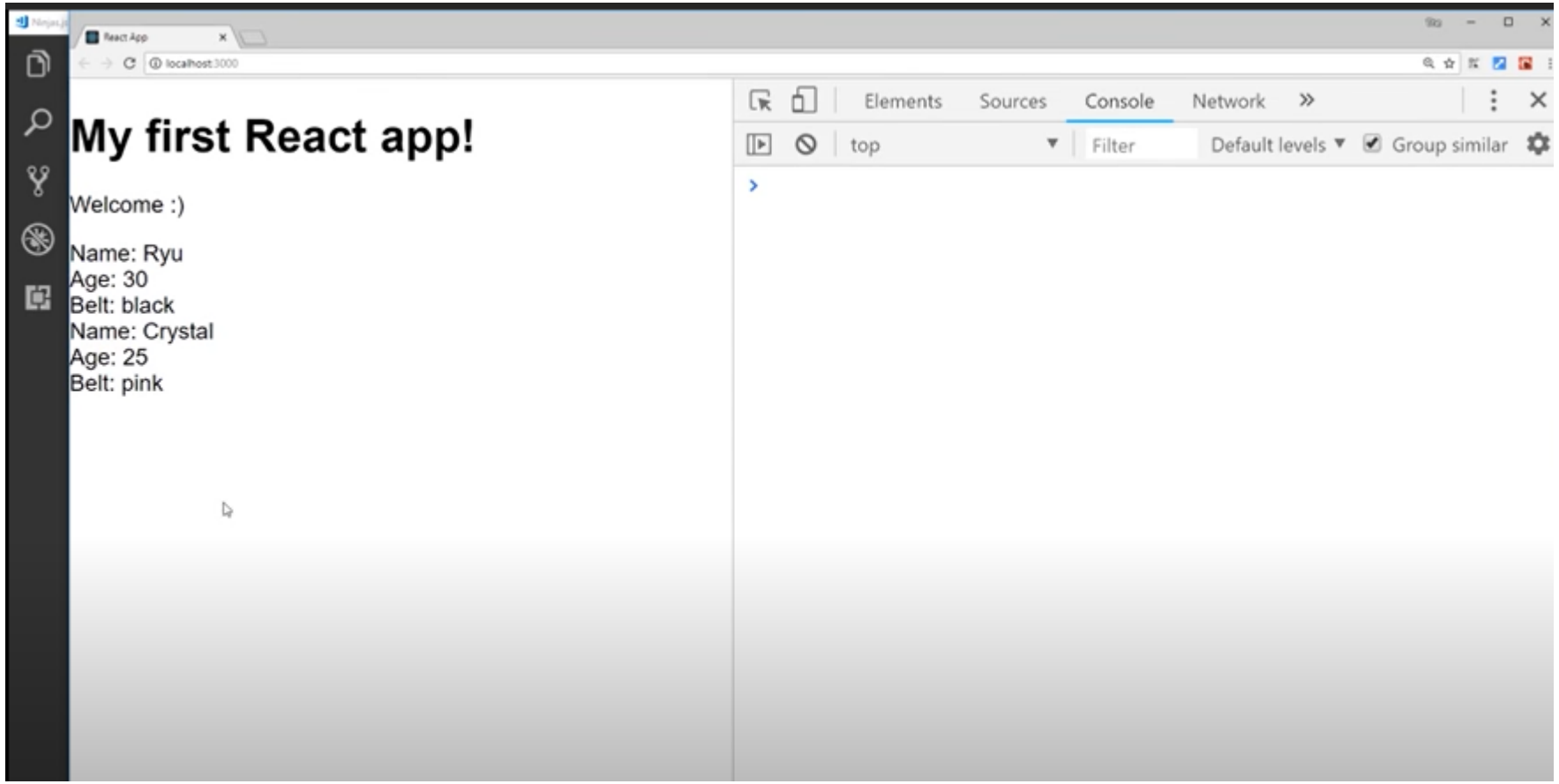

• Ninjas.js - react-redux-complete - Visual Studio Code
App.js
Ninjas.js
import React from 'react';
const Ninjas = ({ninjas}) => {
const ninjaList = ninjas.map(ninja => {
if (ninja.age > 20){
return (

Name: { ninja.name }
Age: { ninja.age }
Belt: { ninja.belt }

)
} else {
return null
}
})
return(

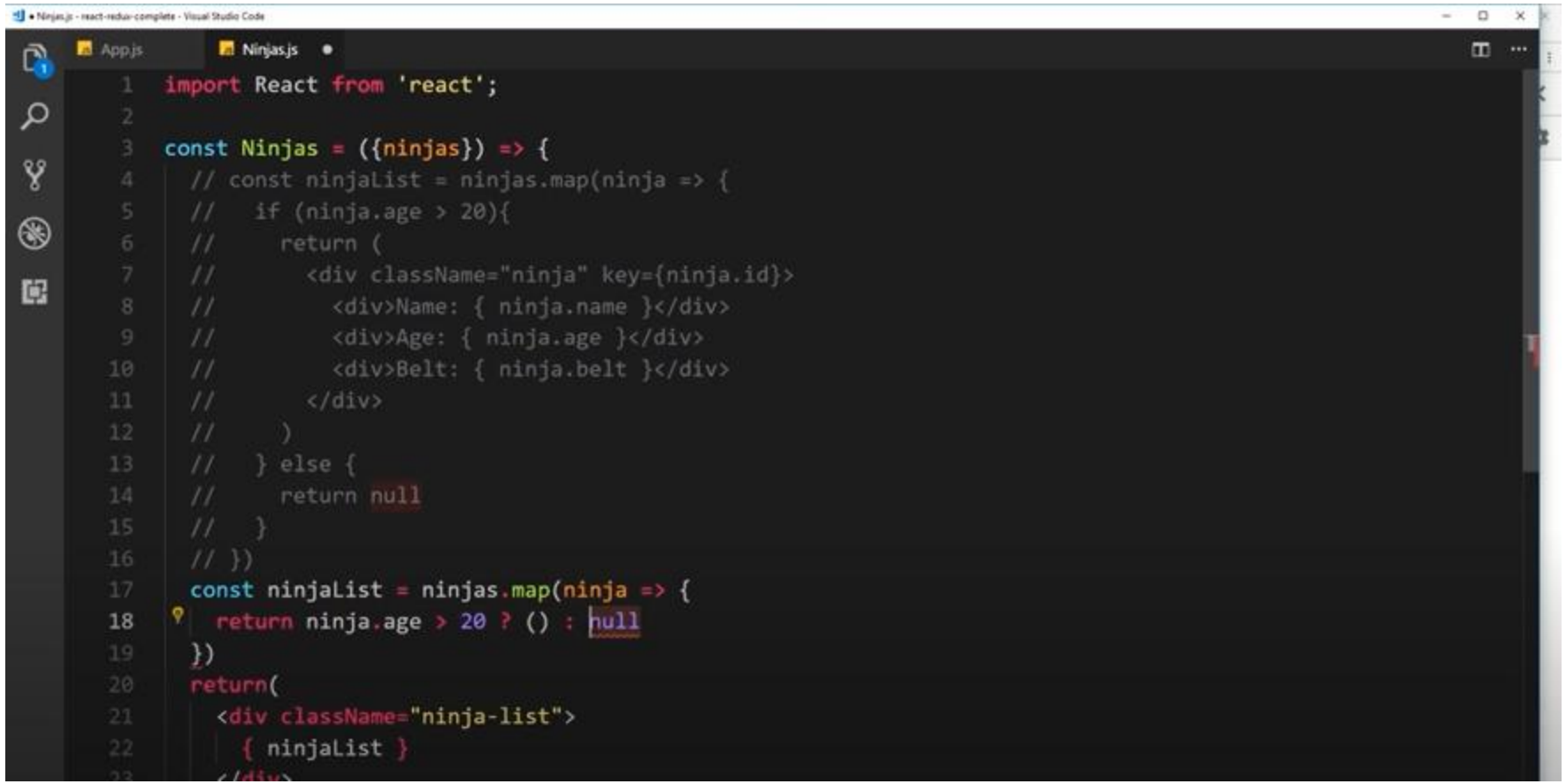
{ ninjaList }

)
}

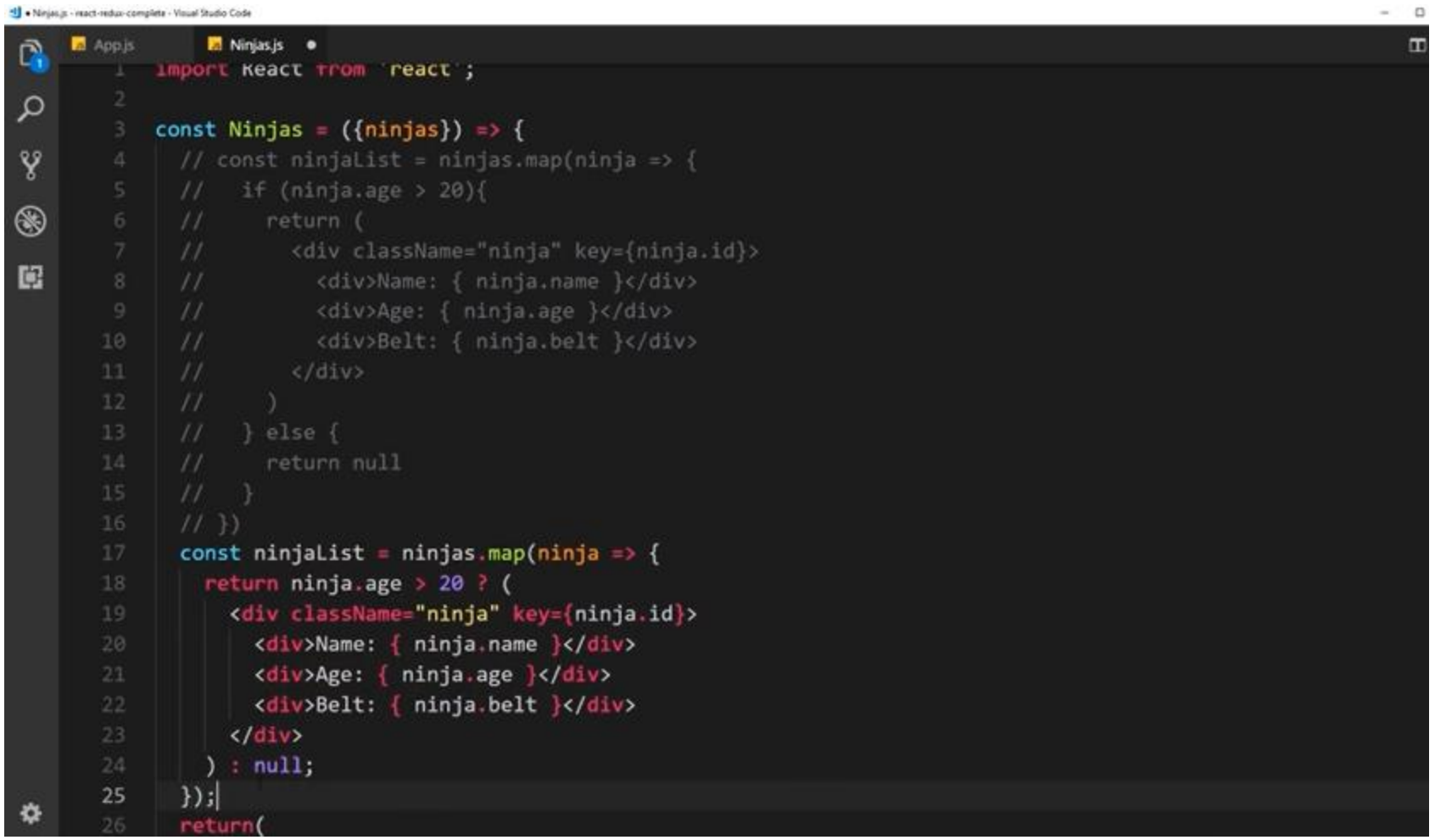

React App
localhost:3000
My first React app!
Welcome :)
Name: Ryu
Age: 30
Belt: black
Name: Crystal
Age: 25
Belt: pink
Elements
Sources
Console
Network
top
Filter
Default levels
Group similar


• Ninjas.js - react-redux-complete - Visual Studio Code
App.js
Ninjas.js
import React from 'react';
const Ninjas = ({ninjas}) => {
// const ninjaList = ninjas.map(ninja => {
// if (ninja.age > 20){
// return (
//
// Name: { ninja.name }
// Age: { ninja.age }
// Belt: { ninja.belt }
//
//)
// } else {
// return null
// }
// })
const ninjaList = ninjas.map(ninja => {
condition ? () : ()
})
return(

{ ninjaList }

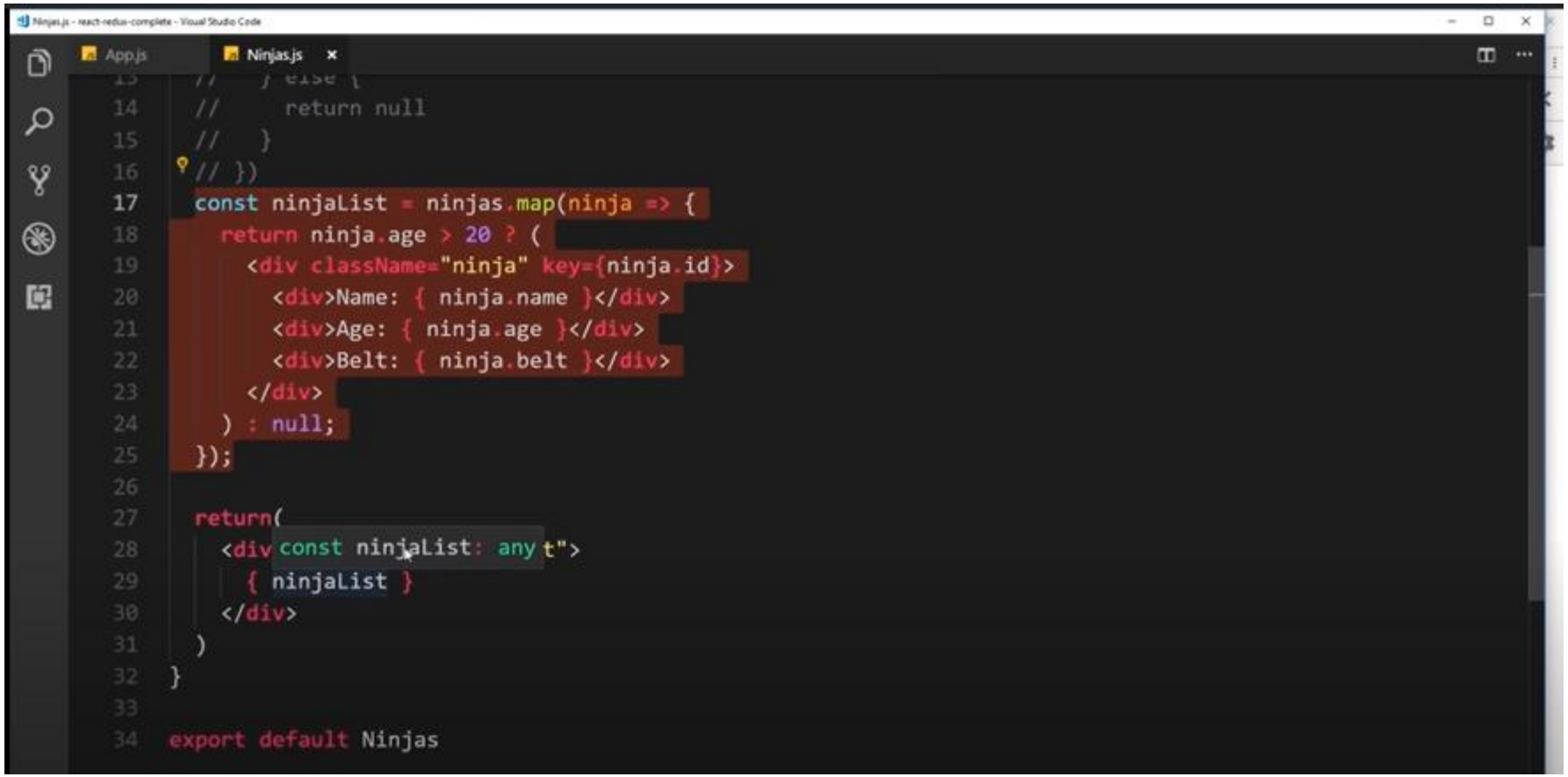

Ninjas.js - react-redux-complete - Visual Studio Code
App.js
Ninjas.js
import React from 'react';
const Ninjas = ({ninjas}) => {
// const ninjaList = ninjas.map(ninja => {
// if (ninja.age > 20){
// return (
//
// Name: { ninja.name }
// Age: { ninja.age }
// Belt: { ninja.belt }
//
//)
// } else {
// return null
// }
// })
const ninjaList = ninjas.map(ninja => {
return ninja.age > 20 ? () : null
})
return(

{ ninjaList }


Ninjas.js - react-redux-complete - Visual Studio Code
App.js
Ninjas.js
import React from 'react';
const Ninjas = ({ninjas}) => {
// const ninjaList = ninjas.map(ninja => {
// if (ninja.age > 20){
// return (
//
// Name: { ninja.name }
// Age: { ninja.age }
// Belt: { ninja.belt }
//
//)
// } else {
// return null
// }
// })
const ninjaList = ninjas.map(ninja => {
return ninja.age > 20 ? (

Name: { ninja.name }
Age: { ninja.age }
Belt: { ninja.belt }

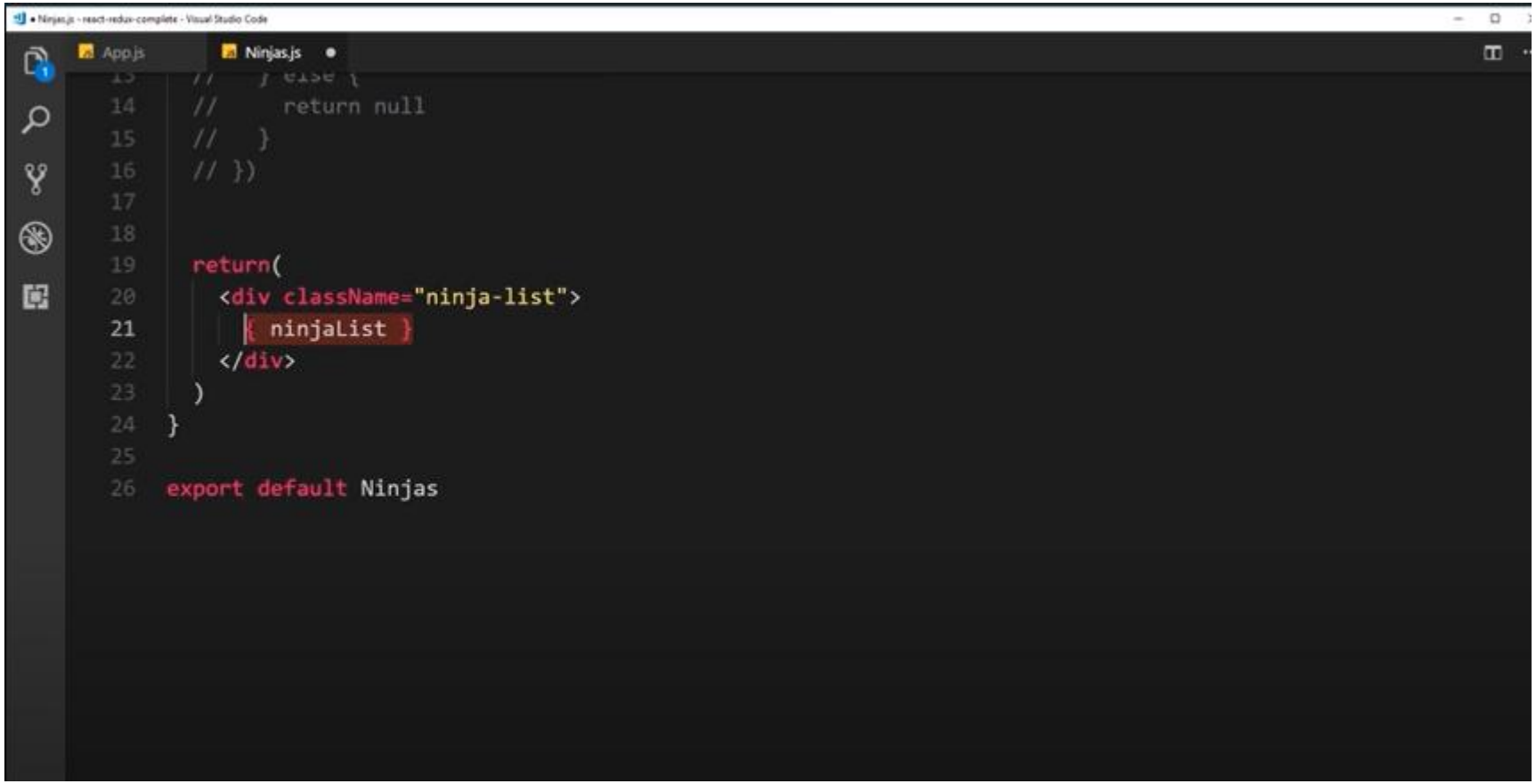
) : null;
});
return(


Ninjas.js - react-redux-complete - Visual Studio Code
App.js
Ninjas.js
// } else {
// return null
// }
// })
const ninjaList = ninjas.map(ninja => {
return ninja.age > 20 ? (

Name: { ninja.name }
Age: { ninja.age }
Belt: { ninja.belt }

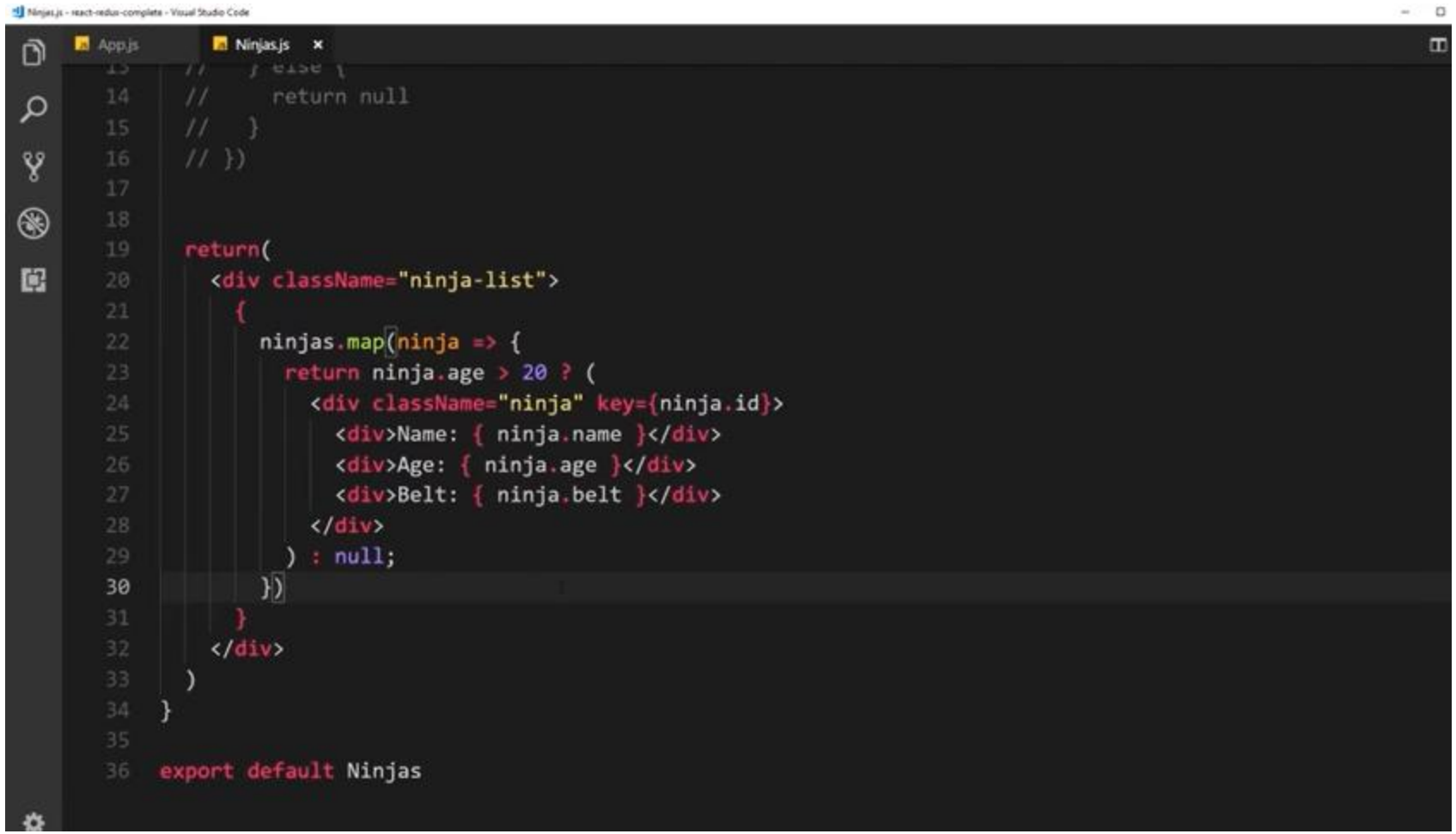
) : null;
});
return(
<div const ninjaList: any t">
{ ninjaList }

)
}
export default Ninjas


Ninjas.js - react-redux-complete - Visual Studio Code
App.js
Ninjas.js
// } else {
//   return null
// }
// })
return(

{ ninjaList }

)
}
export default Ninjas


Ninjas.js - react-redux-complete - Visual Studio Code
App.js
Ninjas.js
// } else {
//   return null
// }
// })
return(

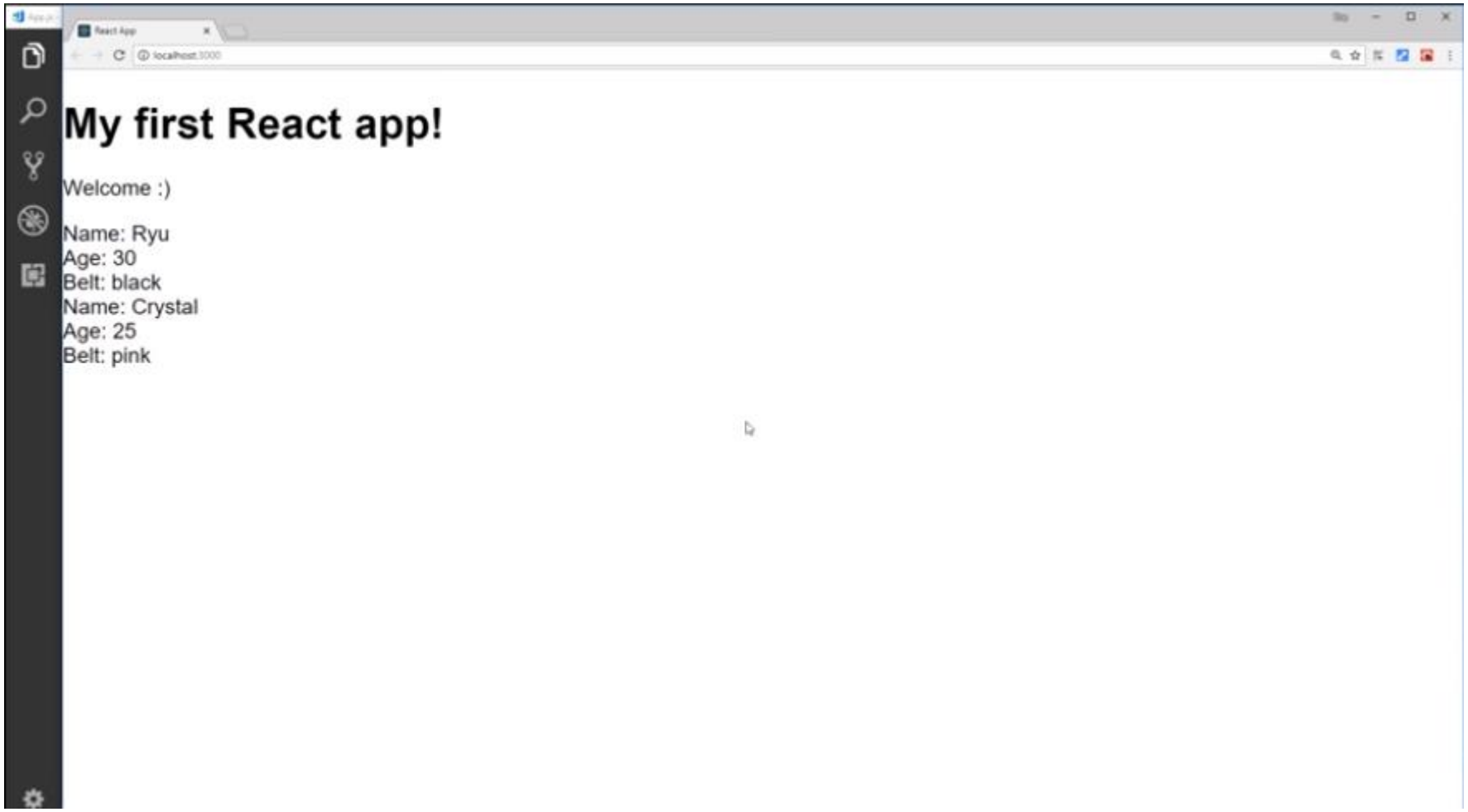
{
ninjas.map(ninja => {
return ninja.age > 20 ? (

Name: { ninja.name }
Age: { ninja.age }
Belt: { ninja.belt }

) : null;
})
}

)
}
export default Ninjas

FORMS REVISITED



What we have already

WHAT WE GONNA DO

A form in which user can add new ninja of his/her choice.

Programmatically how?

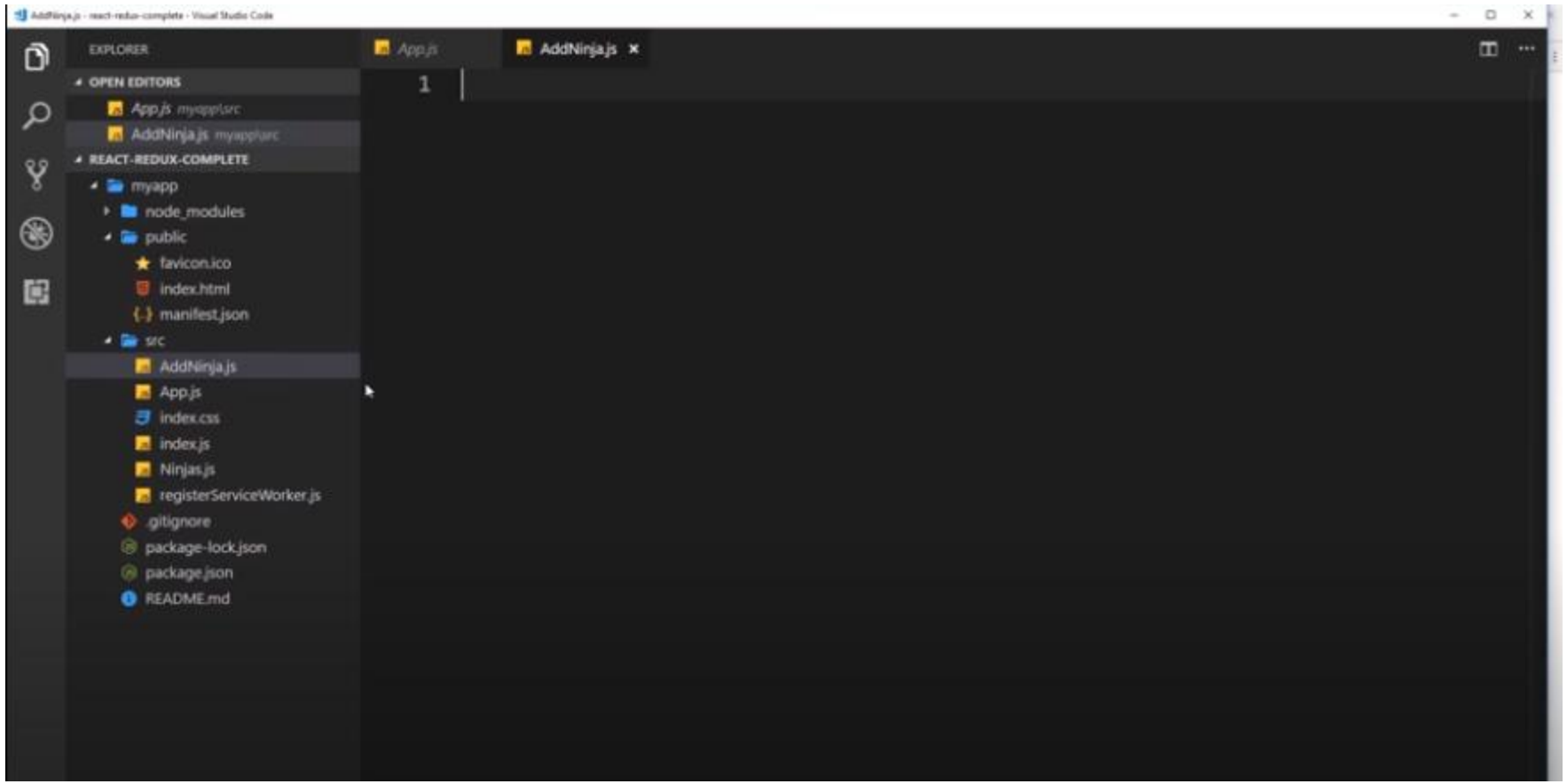
What if by some method we update the ninjas list which we have defined in state of App comp.

This list passes as props to Ninjas comp, where it is iterate and show on the screen.

So when list will be updated the updated one will be sent to Ninjas component and that will be shown to the user.

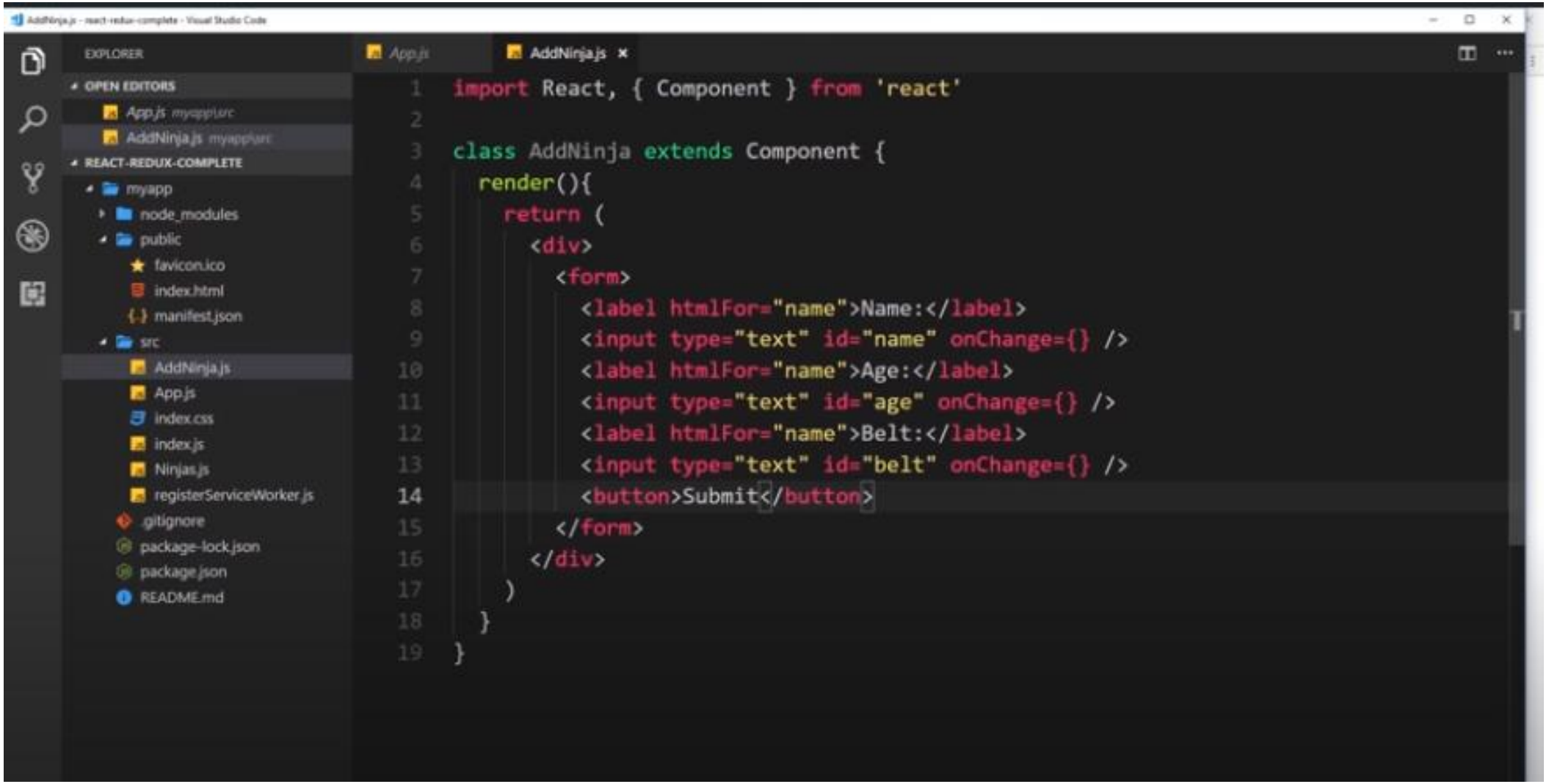
So lets create a form with 3 fields for name, age, belt and add button.

Create a new component with name AddNinja

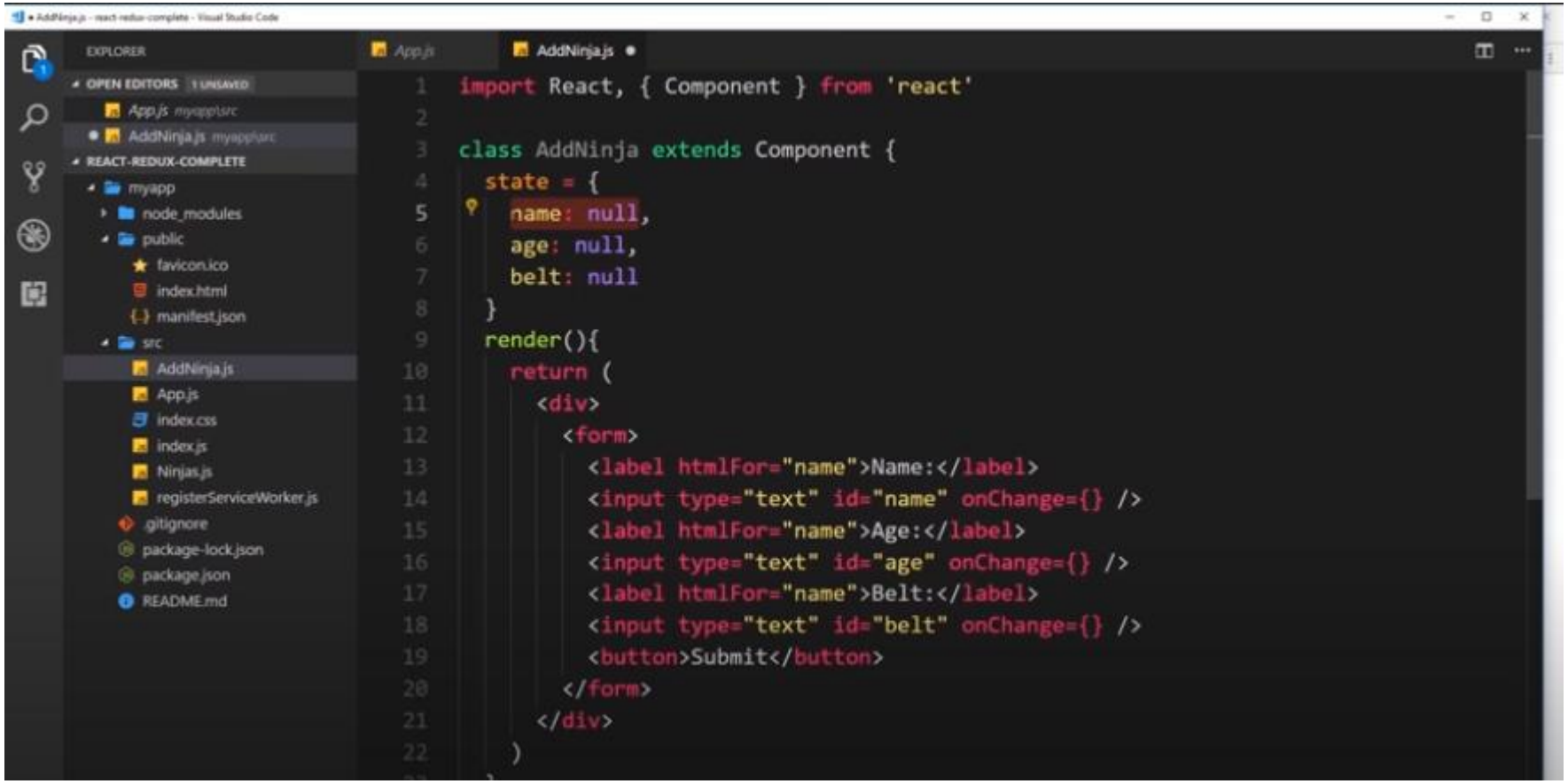

AddNinja.js - react-redux-complete - Visual Studio Code
EXPLORER
App.js
AddNinja.js
1
OPEN EDITORS
App.js myapp\src
AddNinja.js myapp\src
REACT-REDUX-COMPLETE
myapp
node_modules
public
favicon.ico
index.html
manifest.json
src
AddNinja.js
App.js
index.css
index.js
Ninjas.js
registerServiceWorker.js
.gitignore
package-lock.json
package.json
README.md

What will be type of this comp container or stateless?

As we want to store user input values locally in the state so container comp will be used



htmlFor in jsx template not for

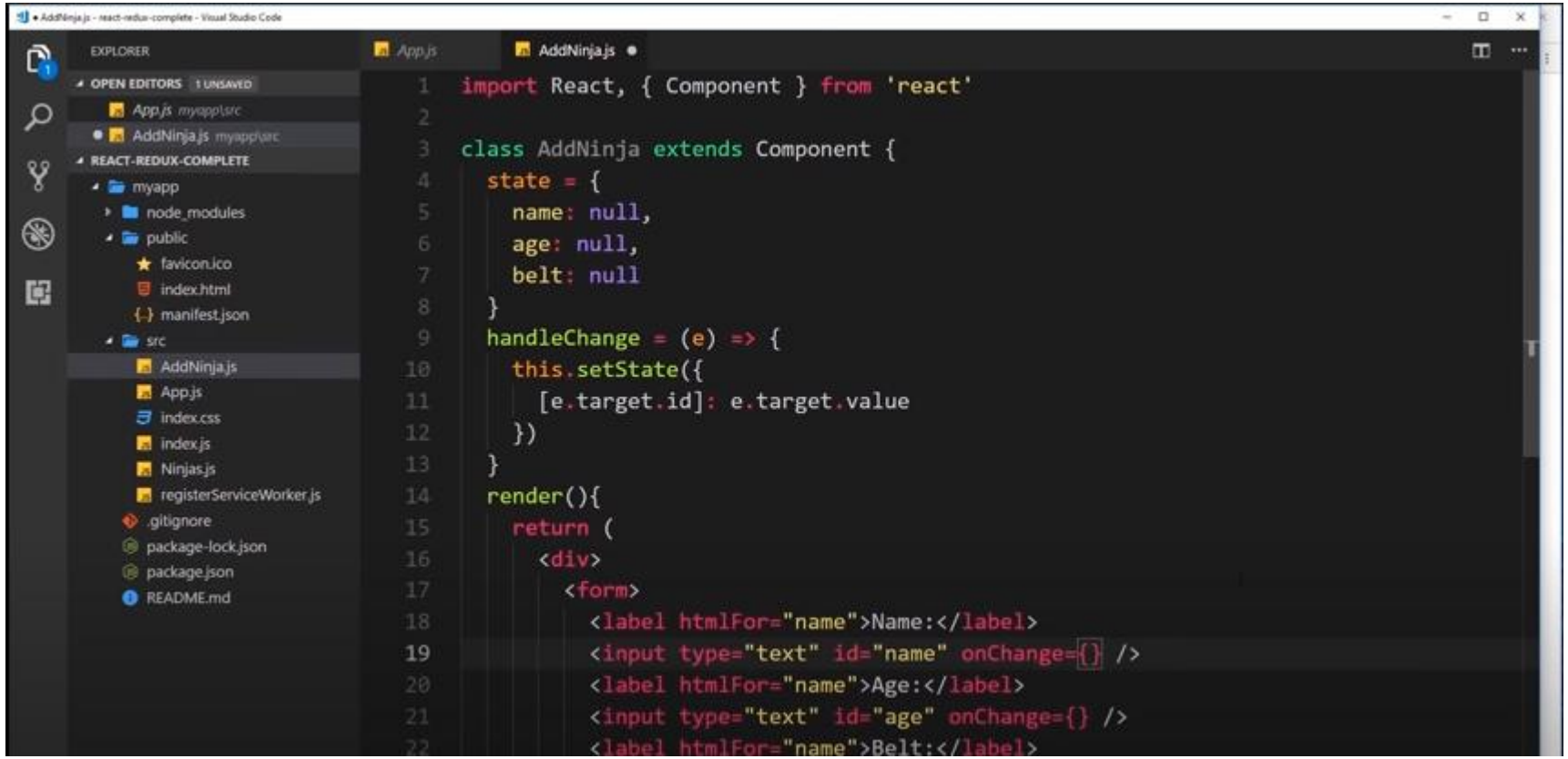


Define state

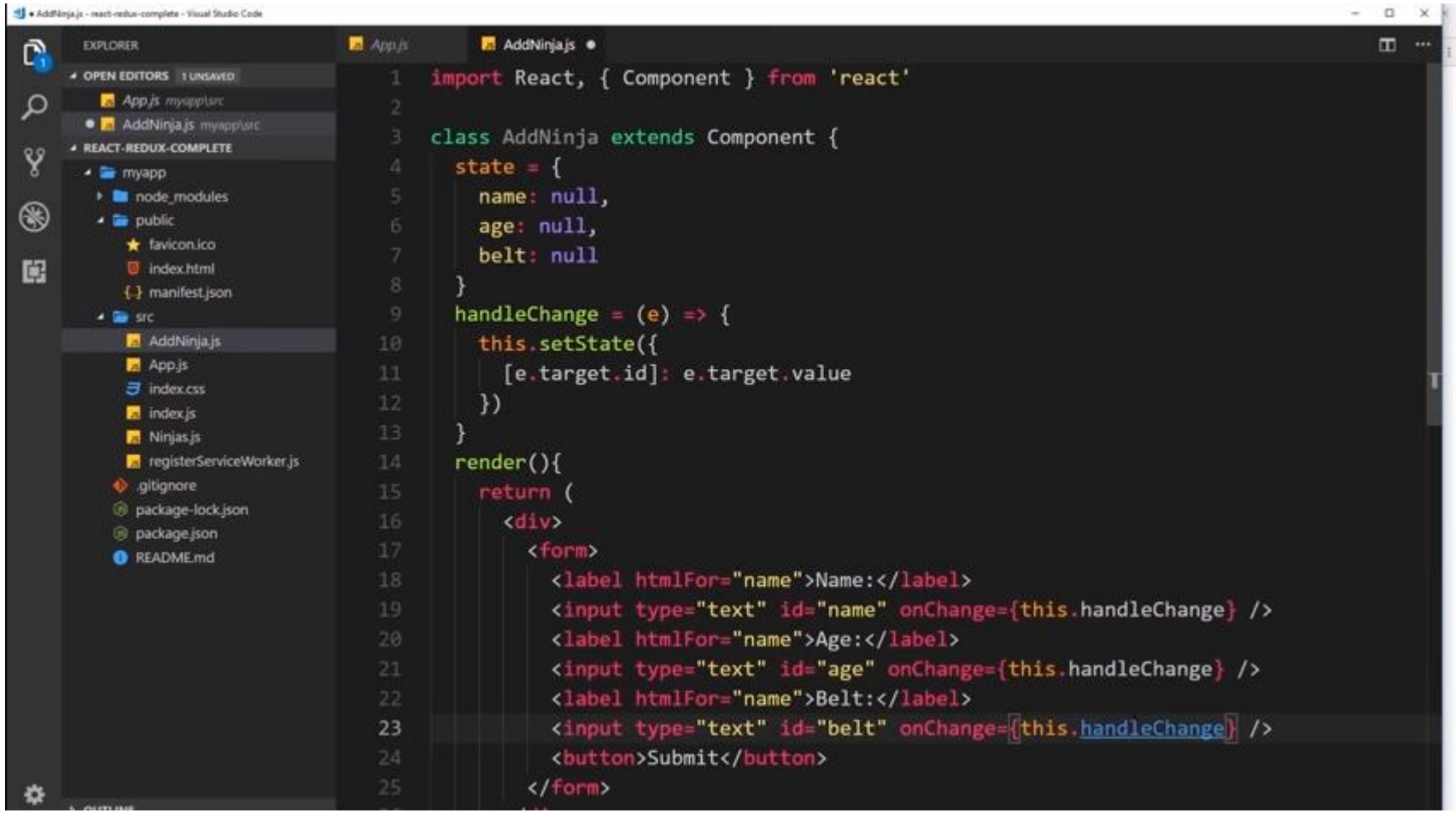
Need 3 functions for each field.

Right?

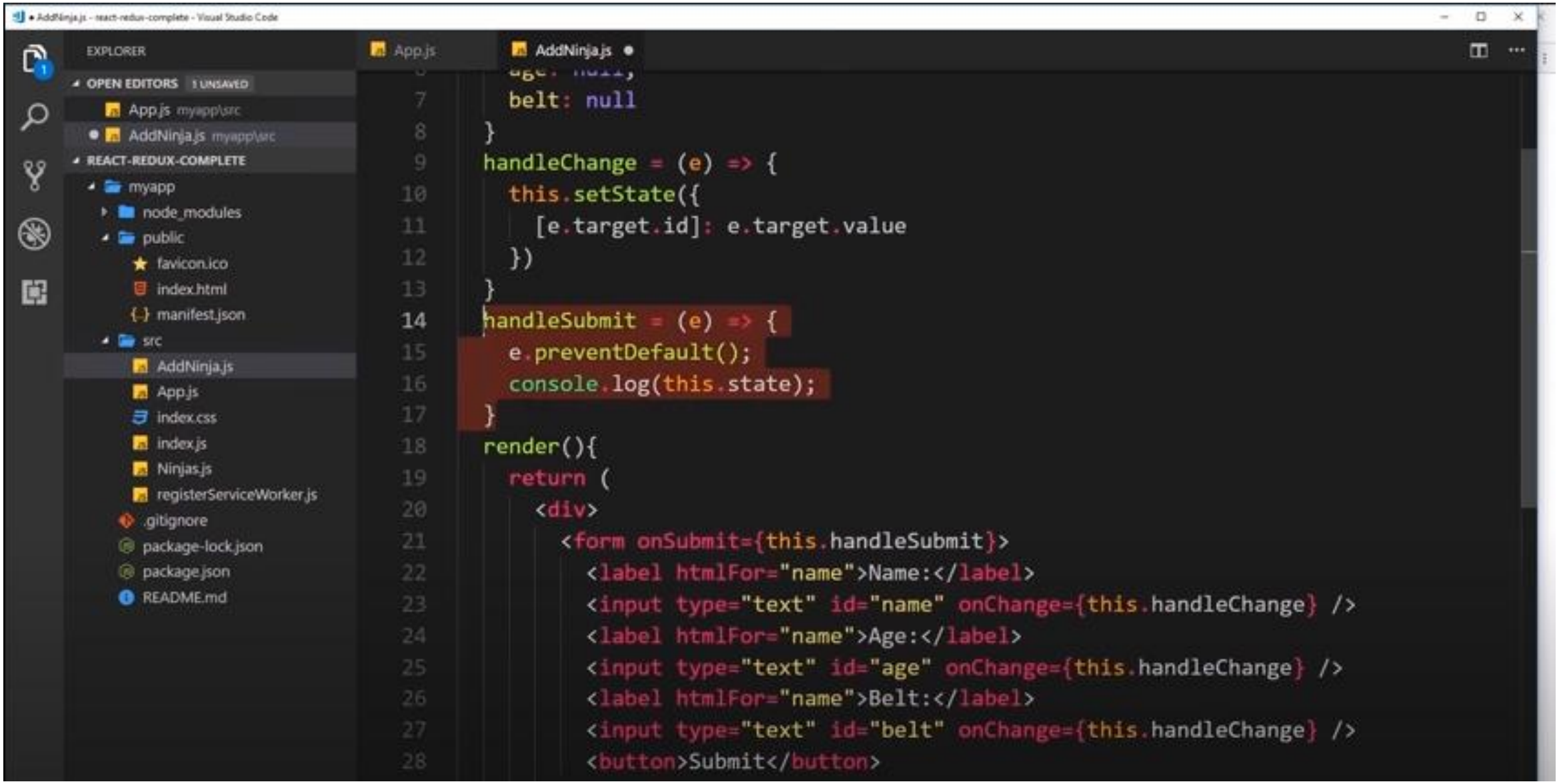
No


AddNinja.js - react-redux-complete - Visual Studio Code
EXPLORER
OPEN EDITORS 1 UNSAVED
App.js myapp\src
AddNinja.js myapp\src
REACT-REDUX-COMPLETE
myapp
node_modules
public
favicon.ico
index.html
manifest.json
src
AddNinja.js
App.js
index.css
index.js
Ninjas.js
registerServiceWorker.js
.gitignore
package-lock.json
package.json
README.md
App.js
AddNinja.js
import React, { Component } from 'react'
class AddNinja extends Component {
state = {
name: null,
age: null,
belt: null
}
handleChange = (e) => {
this.setState({
[e.target.id]: e.target.value
})
}
render(){
return (

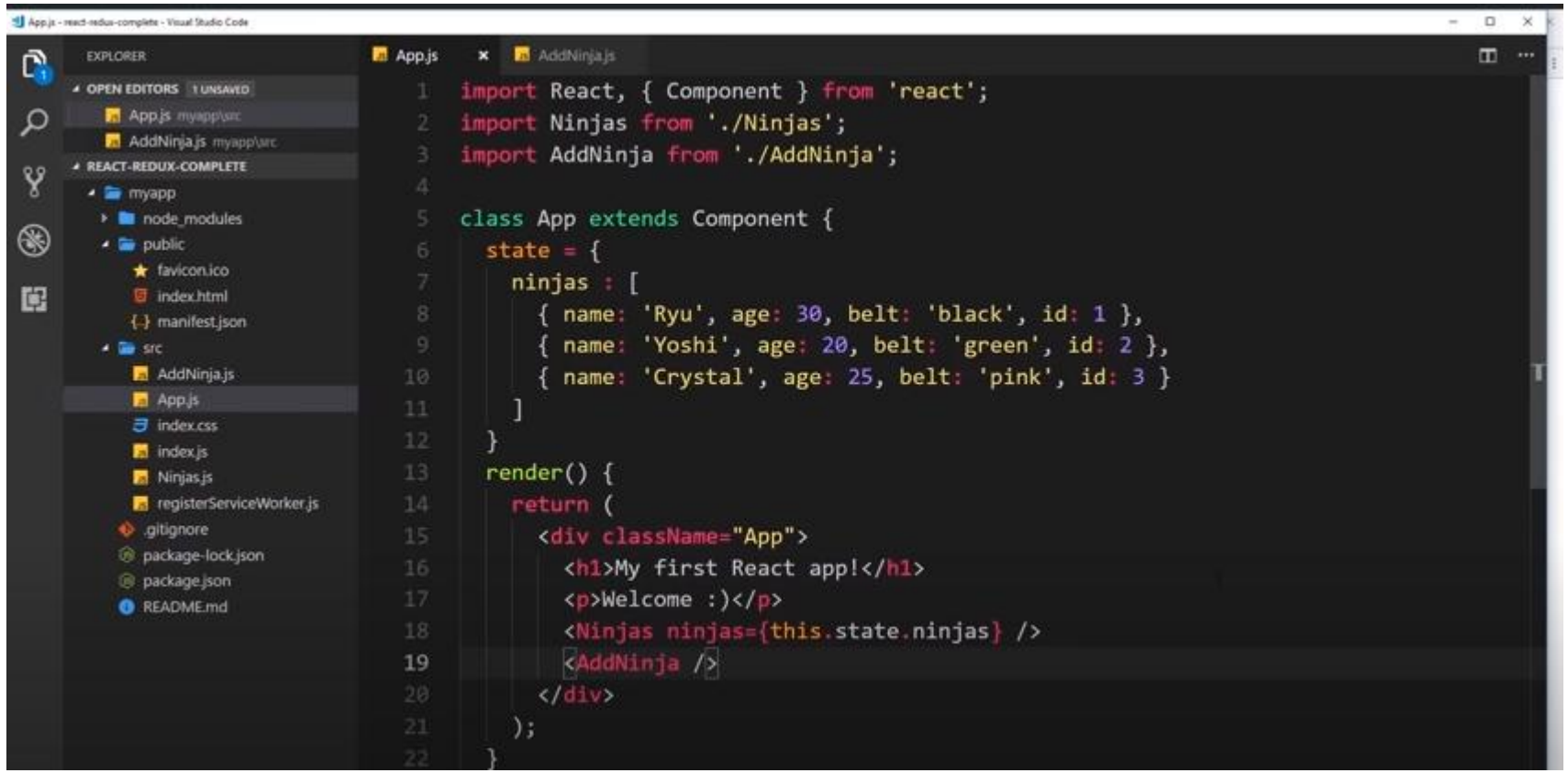
<form>
<label htmlFor="name">Name:</label>
<input type="text" id="name" onChange={} />
<label htmlFor="name">Age:</label>
<input type="text" id="age" onChange={} />
<label htmlFor="name">Belt:</label>



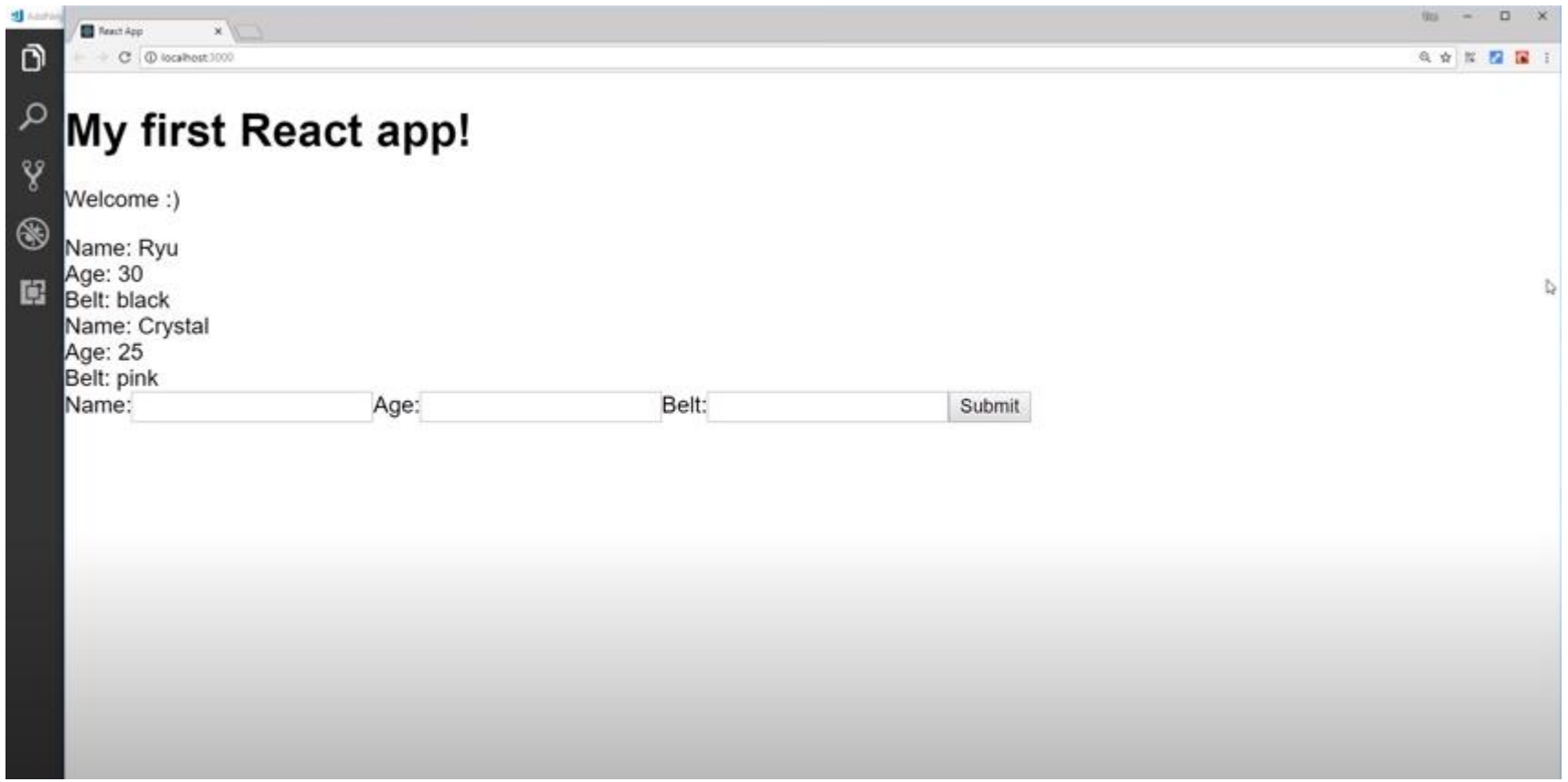
Calling handleChange func

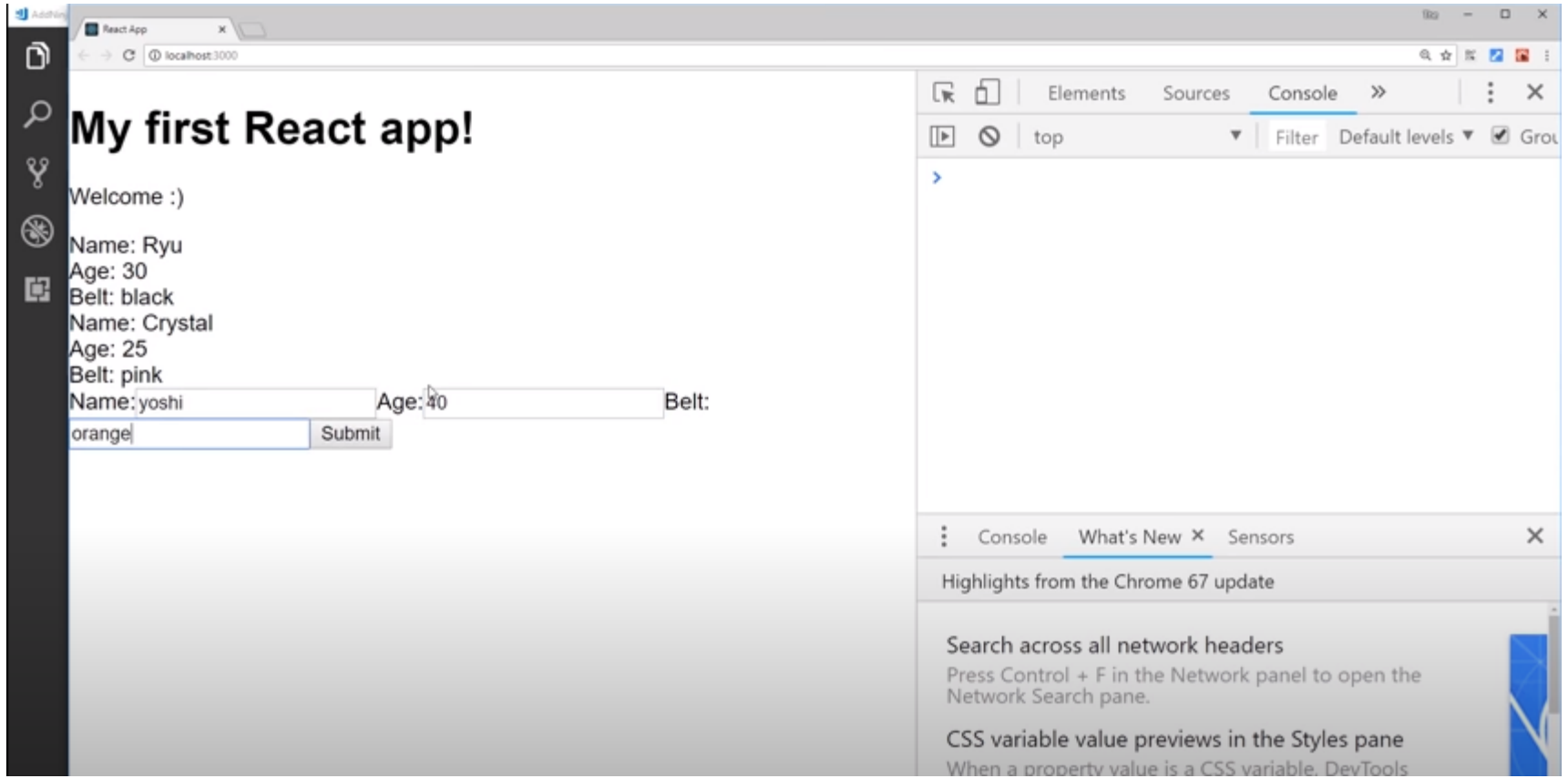


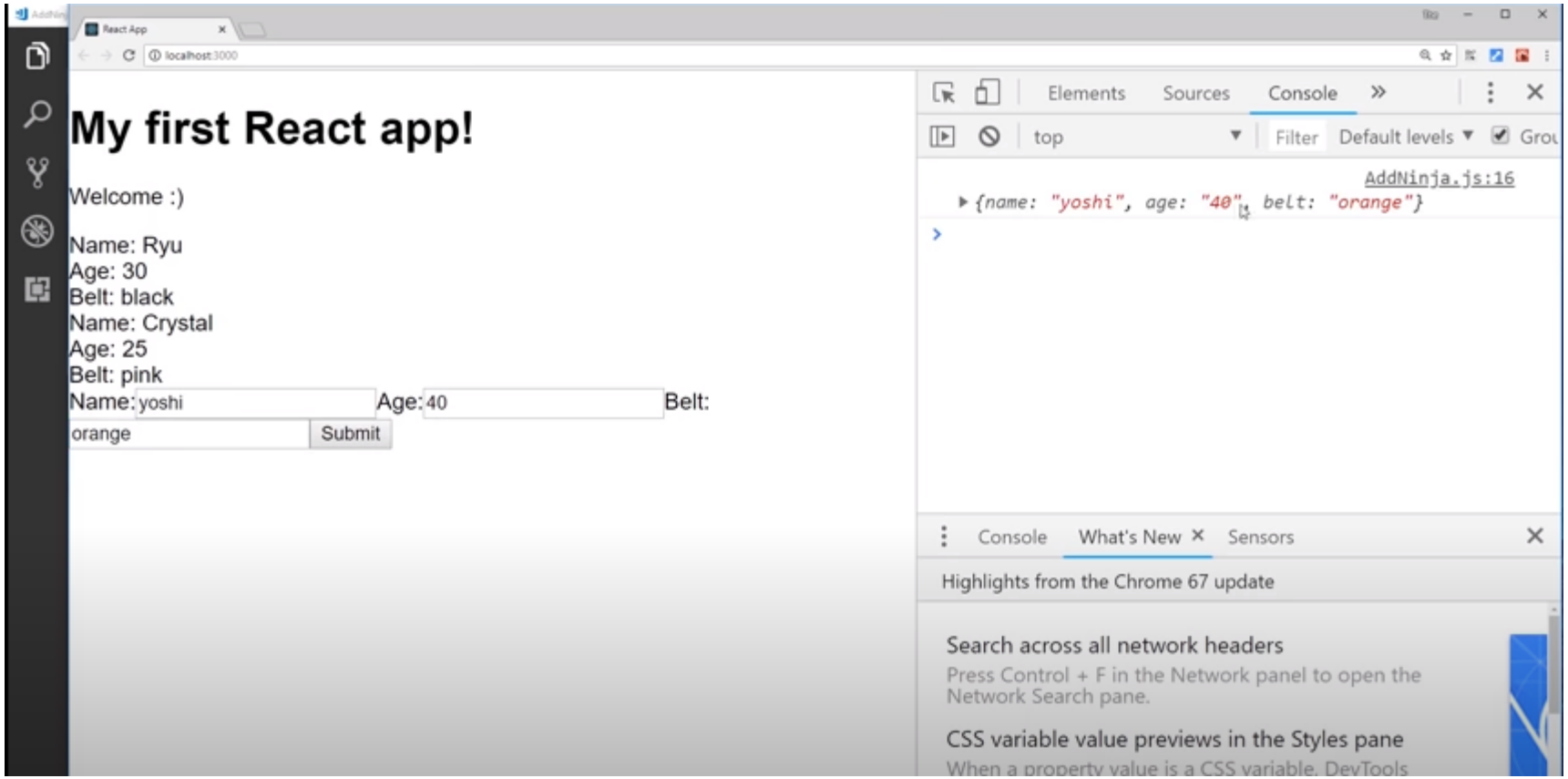
hanldeSubmit func



Adding AddNinja comp in the root comp


React App
localhost:3000
My first React app!
Welcome :)
Name: Ryu
Age: 30
Belt: black
Name: Crystal
Age: 25
Belt: pink
Name:
Age:
Belt:
Submit


React App
localhost:3000
My first React app!
Welcome :)
Name: Ryu
Age: 30
Belt: black
Name: Crystal
Age: 25
Belt: pink
Name: yoshi
Age: 40
Belt:
orange
Submit
Elements
Sources
Console
top
Filter
Default levels
Console
What's New
Sensors
Highlights from the Chrome 67 update
Search across all network headers
Press Control + F in the Network panel to open the Network Search pane.
CSS variable value previews in the Styles pane
When a property value is a CSS variable, DevTools

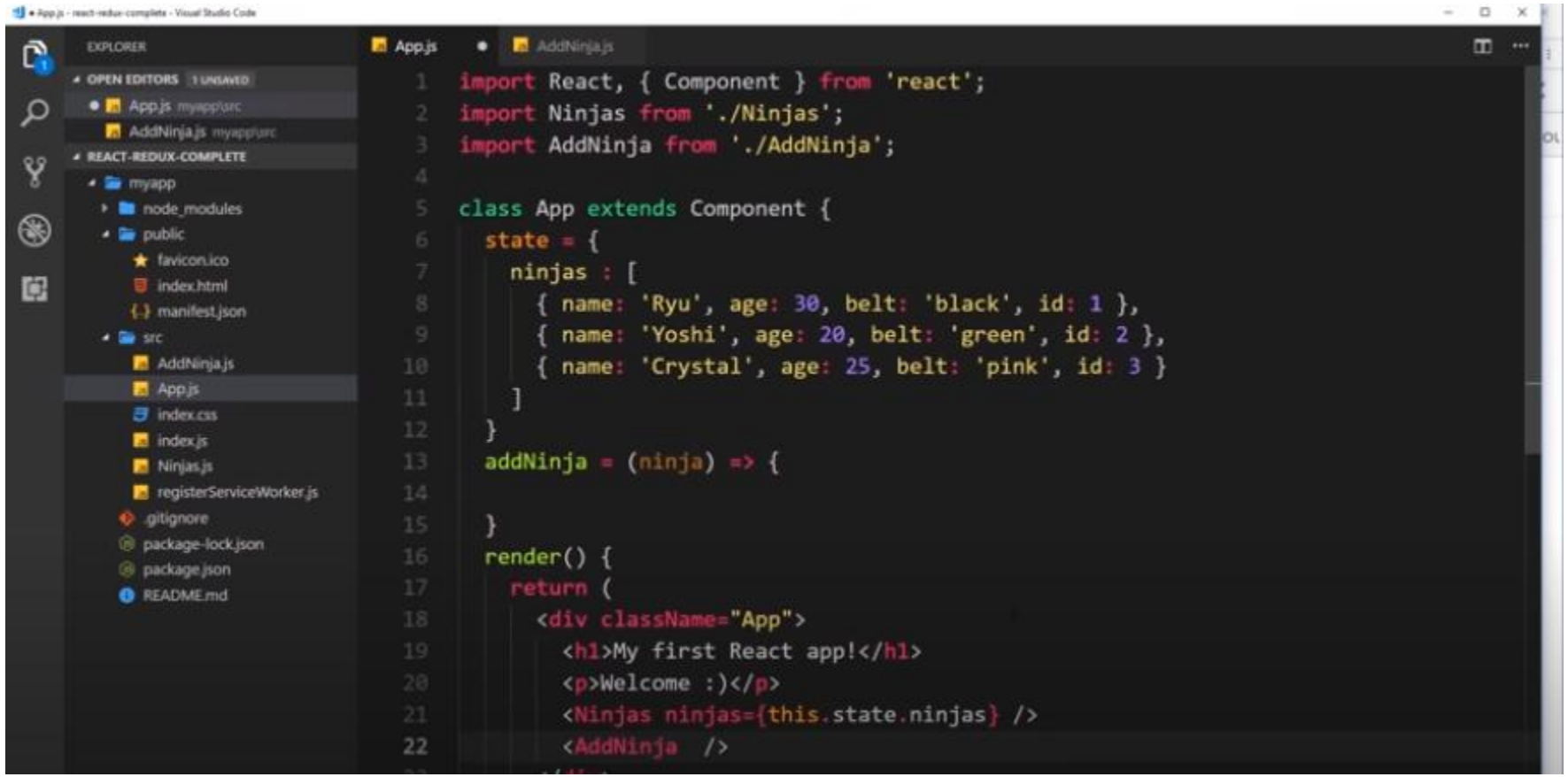

React App
localhost:3000
My first React app!
Welcome :)
Name: Ryu
Age: 30
Belt: black
Name: Crystal
Age: 25
Belt: pink
Name: yoshi
Age: 40
Belt:
orange
Submit
Elements
Sources
Console
top
Filter
Default levels
AddNinja.js:16
{name: "yoshi", age: "40", belt: "orange"}
Console
What's New
Sensors
Highlights from the Chrome 67 update
Search across all network headers
Press Control + F in the Network panel to open the Network Search pane.
CSS variable value previews in the Styles pane
When a property value is a CSS variable, DevTools

Now what we need:

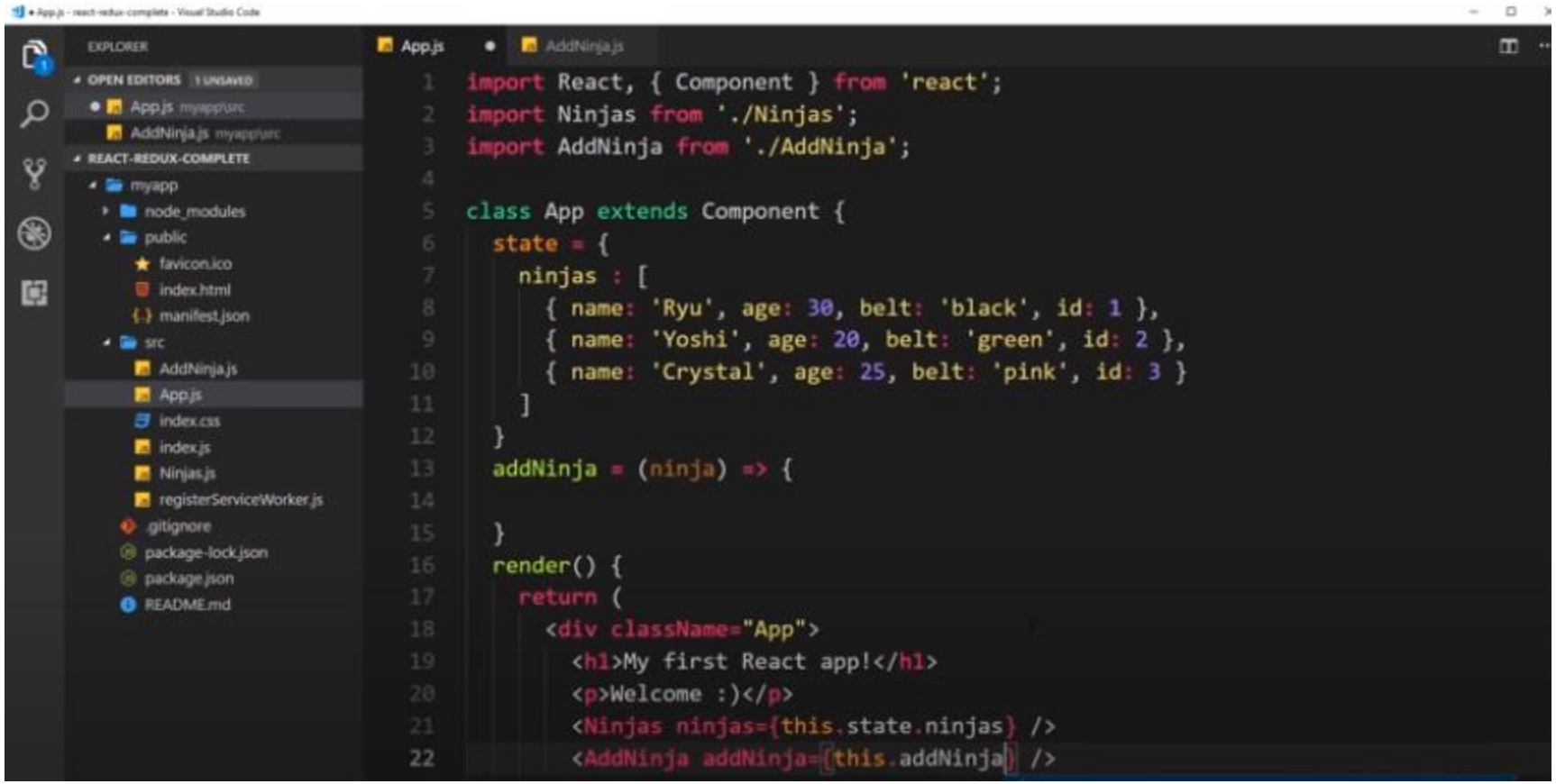
We need to add the stuff which we got in the last slide from the user to the nijas list which we mentioned in the start.

But how?

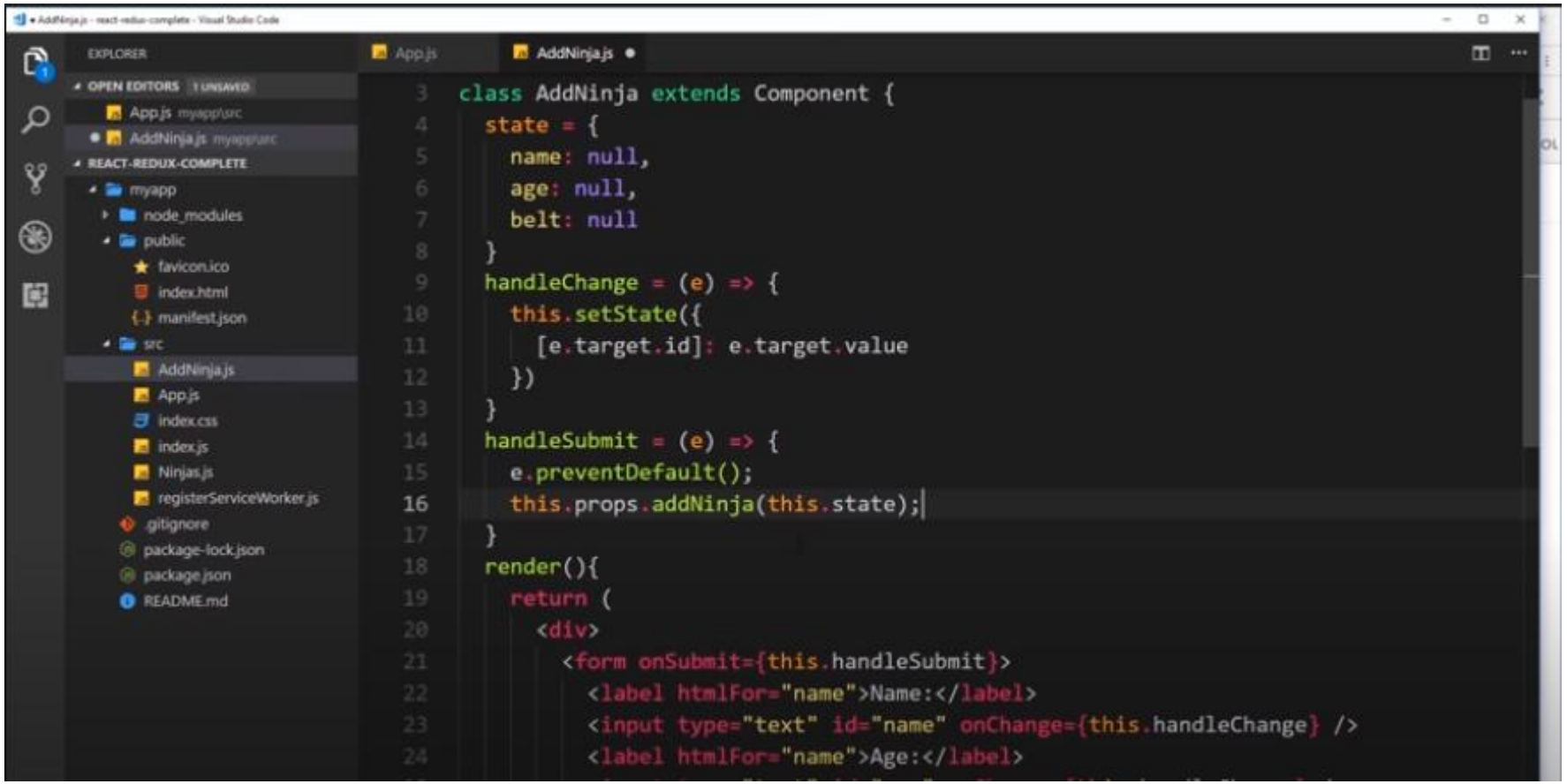
FUNCTIONS AS PROPS


App.js - react-redux-complete - Visual Studio Code
EXPLORER
OPEN EDITORS 1 UNSAVED
App.js myapp\src
AddNinja.js myapp\src
REACT-REDUX-COMPLETE
myapp
node_modules
public
favicon.ico
index.html
manifest.json
src
AddNinja.js
App.js
index.css
index.js
Ninjas.js
registerServiceWorker.js
.gitignore
package-lock.json
package.json
README.md
App.js
AddNinja.js
import React, { Component } from 'react';
import Ninjas from './Ninjas';
import AddNinja from './AddNinja';
class App extends Component {
state = {
ninjas : [
{ name: 'Ryu', age: 30, belt: 'black', id: 1 },
{ name: 'Yoshi', age: 20, belt: 'green', id: 2 },
{ name: 'Crystal', age: 25, belt: 'pink', id: 3 }
]
}
addNinja = (ninja) => {
}
render() {
return (

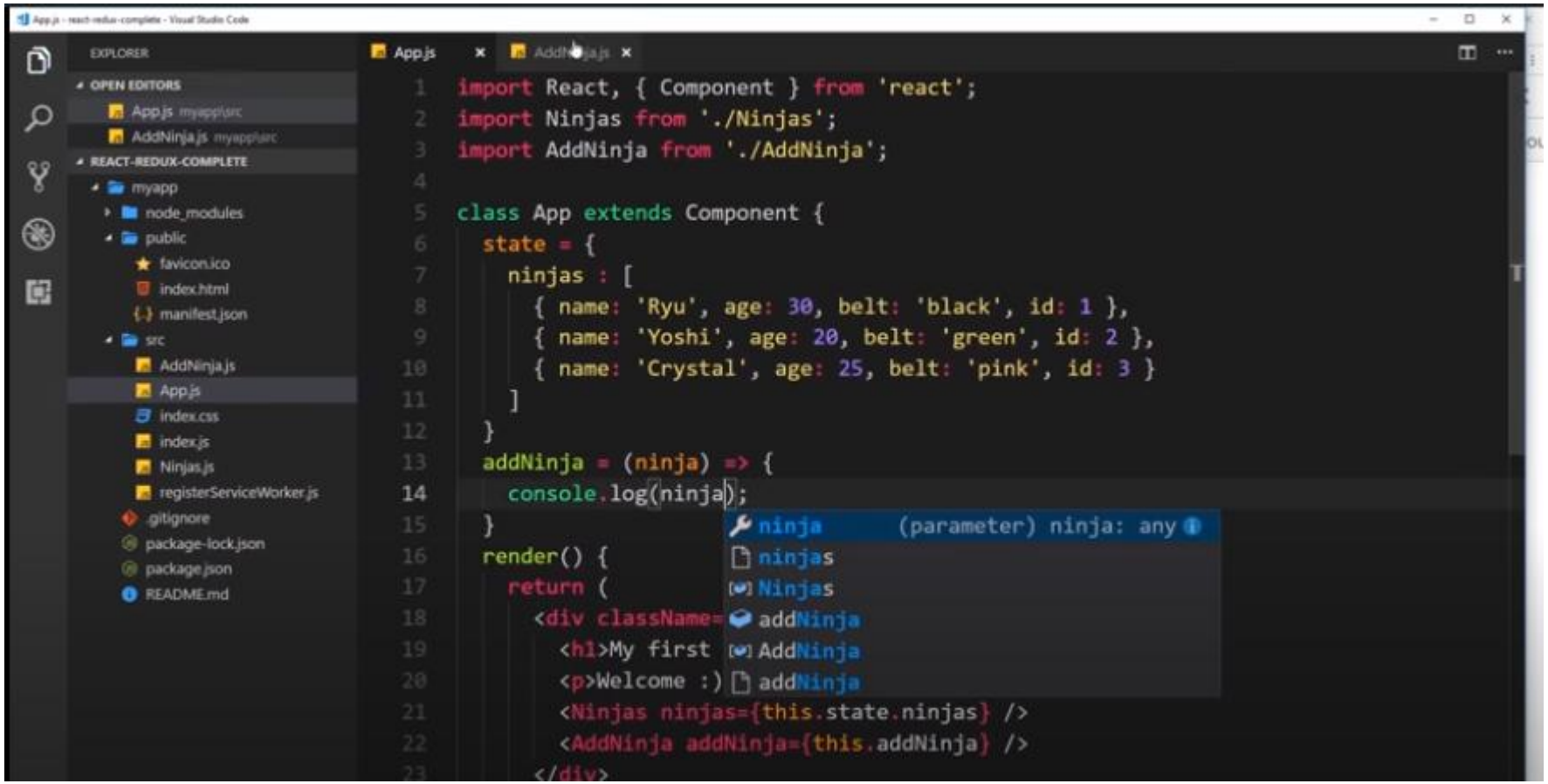
<h1>My first React app!</h1>
Welcome :)
<Ninjas ninjas={this.state.ninjas} />
<AddNinja />
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

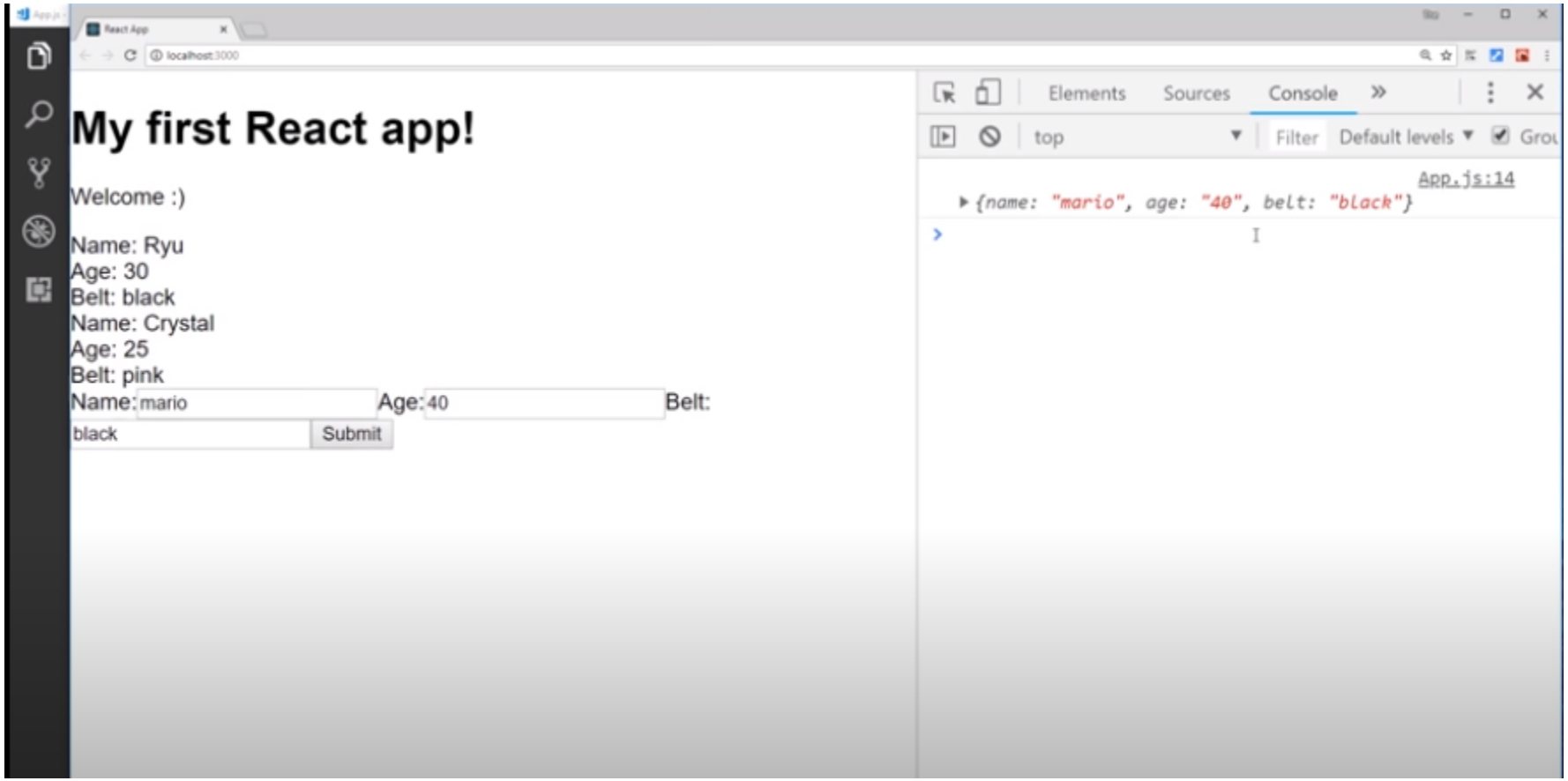

App.js - react-redux-complete - Visual Studio Code
EXPLORER
OPEN EDITORS 1 UNSAVED
App.js myapp\src
AddNinja.js myapp\src
REACT-REDUX-COMPLETE
myapp
node_modules
public
favicon.ico
index.html
manifest.json
src
AddNinja.js
App.js
index.css
index.js
Ninjas.js
registerServiceWorker.js
.gitignore
package-lock.json
package.json
README.md
App.js
AddNinja.js
import React, { Component } from 'react';
import Ninjas from './Ninjas';
import AddNinja from './AddNinja';
class App extends Component {
state = {
ninjas : [
{ name: 'Ryu', age: 30, belt: 'black', id: 1 },
{ name: 'Yoshi', age: 20, belt: 'green', id: 2 },
{ name: 'Crystal', age: 25, belt: 'pink', id: 3 }
]
}
addNinja = (ninja) => {
}
render() {
return (

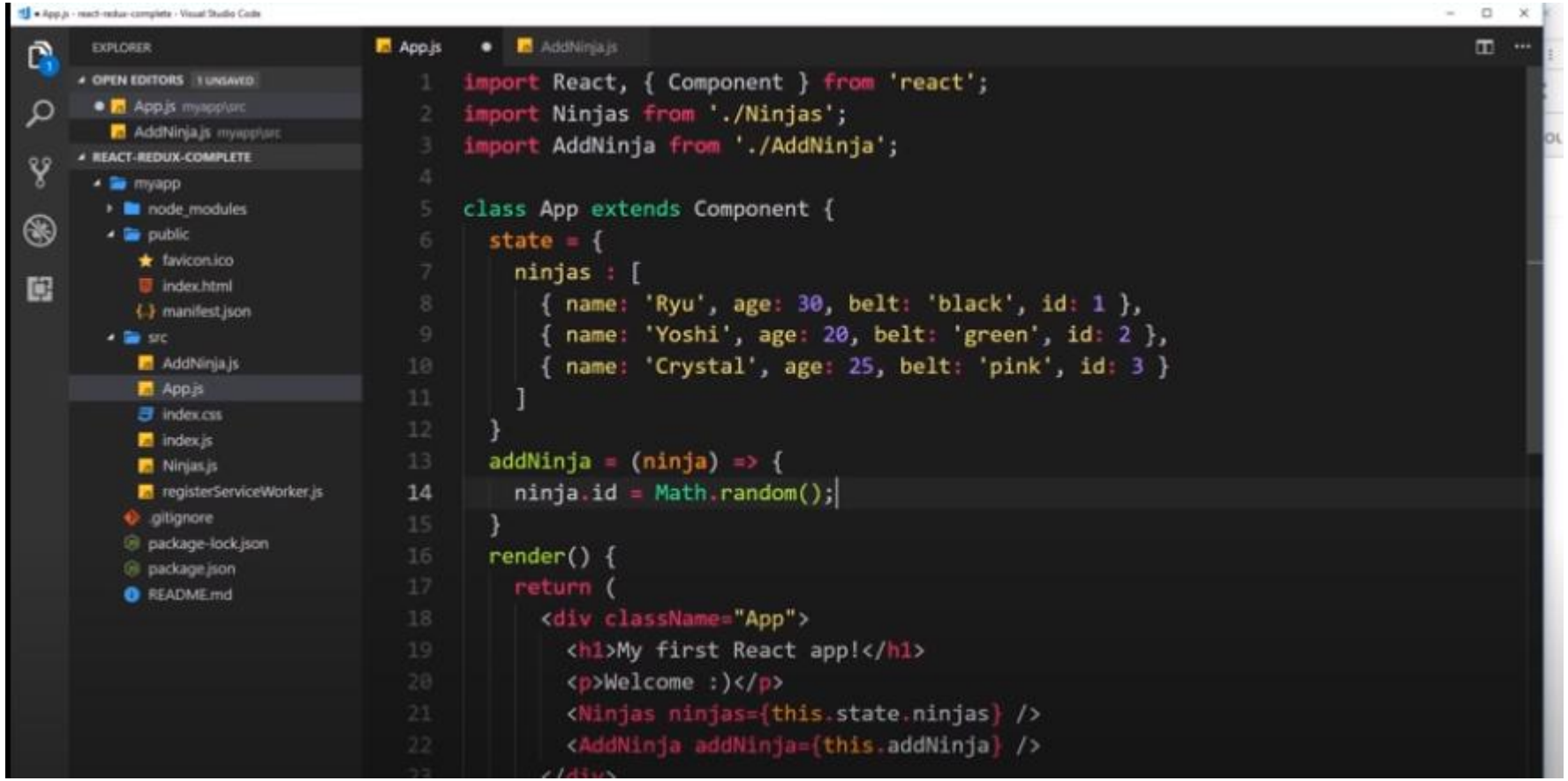
<h1>My first React app!</h1>
Welcome :)
<Ninjas ninjas={this.state.ninjas} />
<AddNinja addNinja={this.addNinja} />



Calling a func and passing a ninja obj through state

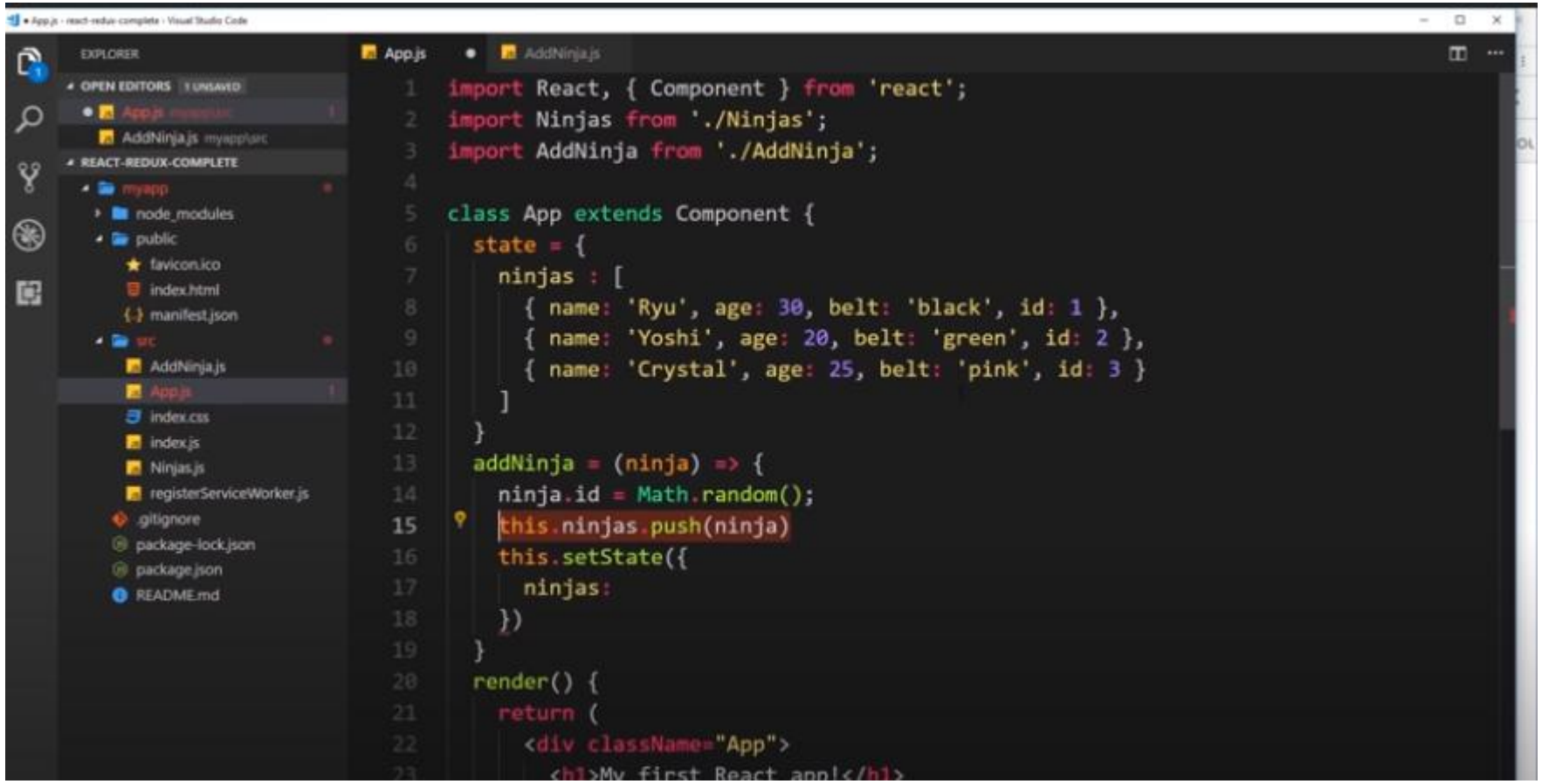

App.js - react-redux-complete - Visual Studio Code
EXPLORER
OPEN EDITORS
App.js myapp\src
AddNinja.js myapp\src
REACT-REDUX-COMPLETE
myapp
node_modules
public
favicon.ico
index.html
manifest.json
src
AddNinja.js
App.js
index.css
index.js
Ninjas.js
registerServiceWorker.js
.gitignore
package-lock.json
package.json
README.md
App.js
AddNinja.js
import React, { Component } from 'react';
import Ninjas from './Ninjas';
import AddNinja from './AddNinja';
class App extends Component {
state = {
ninjas : [
{ name: 'Ryu', age: 30, belt: 'black', id: 1 },
{ name: 'Yoshi', age: 20, belt: 'green', id: 2 },
{ name: 'Crystal', age: 25, belt: 'pink', id: 3 }
]
}
addNinja = (ninja) => {
console.log(ninja);
}
render() {
return (
<div className=
<h1>My first
<p>Welcome :)
<Ninjas ninjas={this.state.ninjas} />
<AddNinja addNinja={this.addNinja} />
ninja (parameter) ninja: any
ninjas
Ninjas
addNinja
AddNinja
addNinja


React App
localhost:3000
My first React app!
Welcome :)
Name: Ryu
Age: 30
Belt: black
Name: Crystal
Age: 25
Belt: pink
Name: mario
Age: 40
Belt:
black
Submit
Elements
Sources
Console
top
Filter
Default levels
App.js:14
{name: "mario", age: "40", belt: "black"}

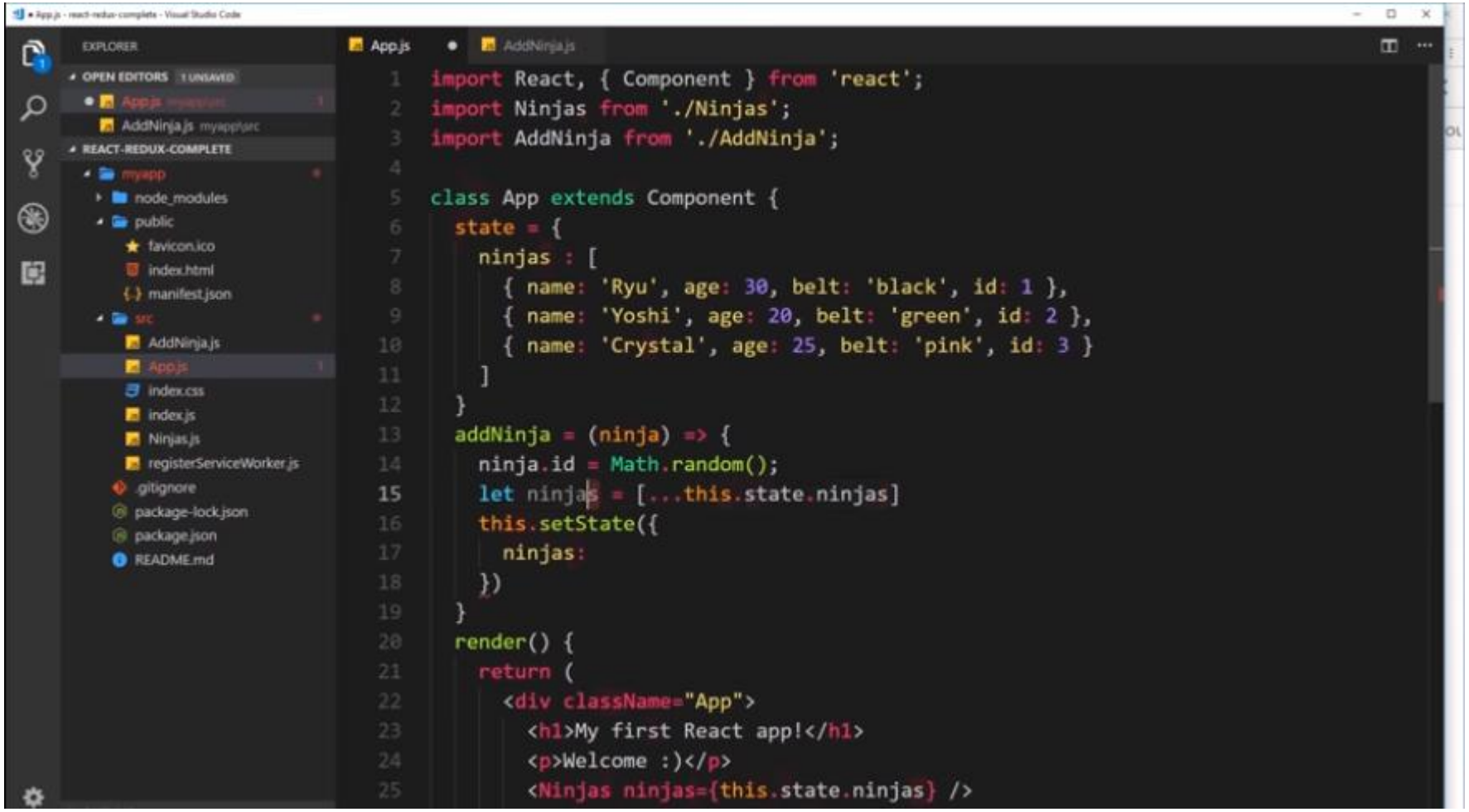


Adding id in ninja obj as we are not interested to take it from user

Not do this already updating array what of setState

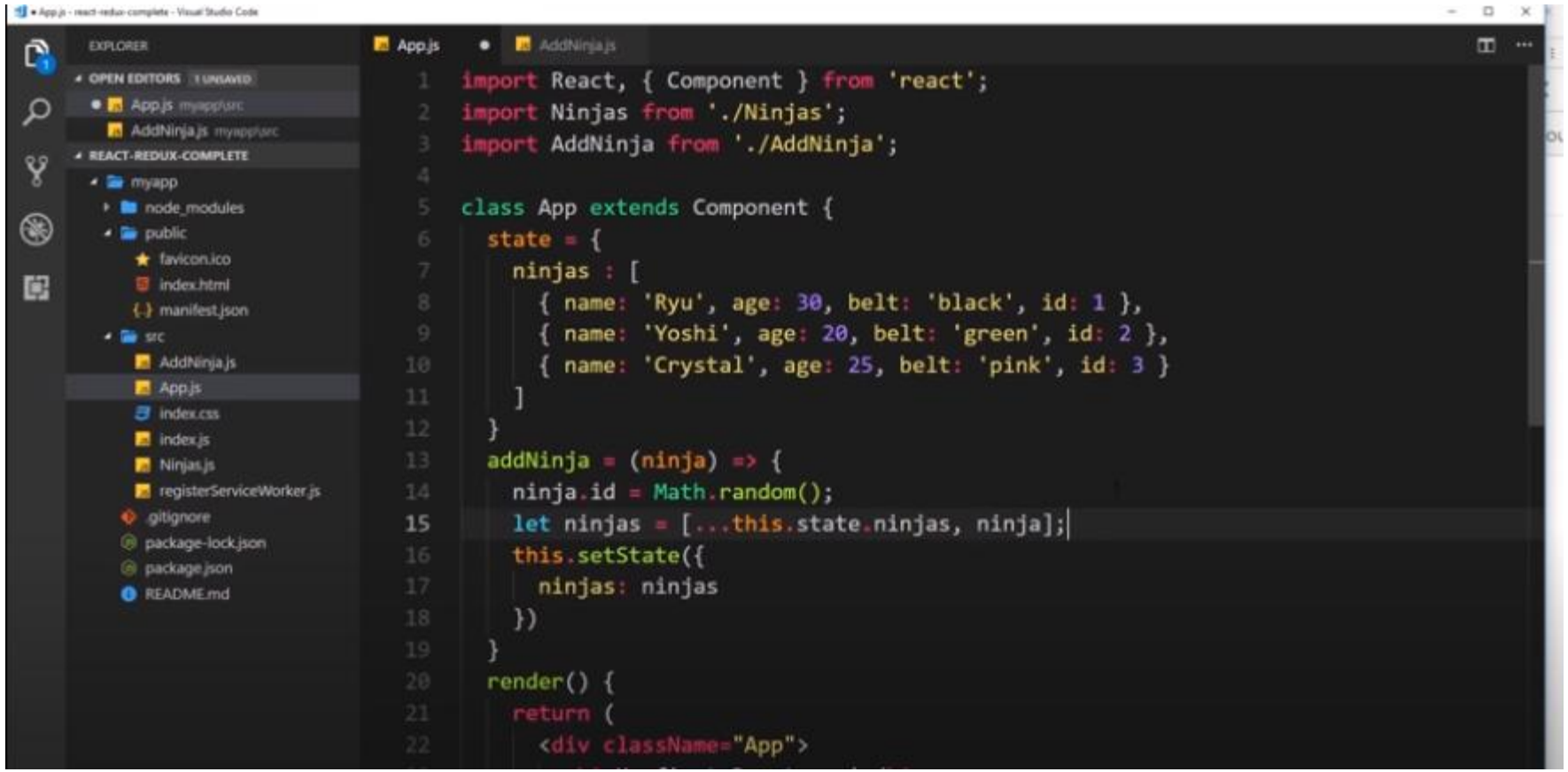


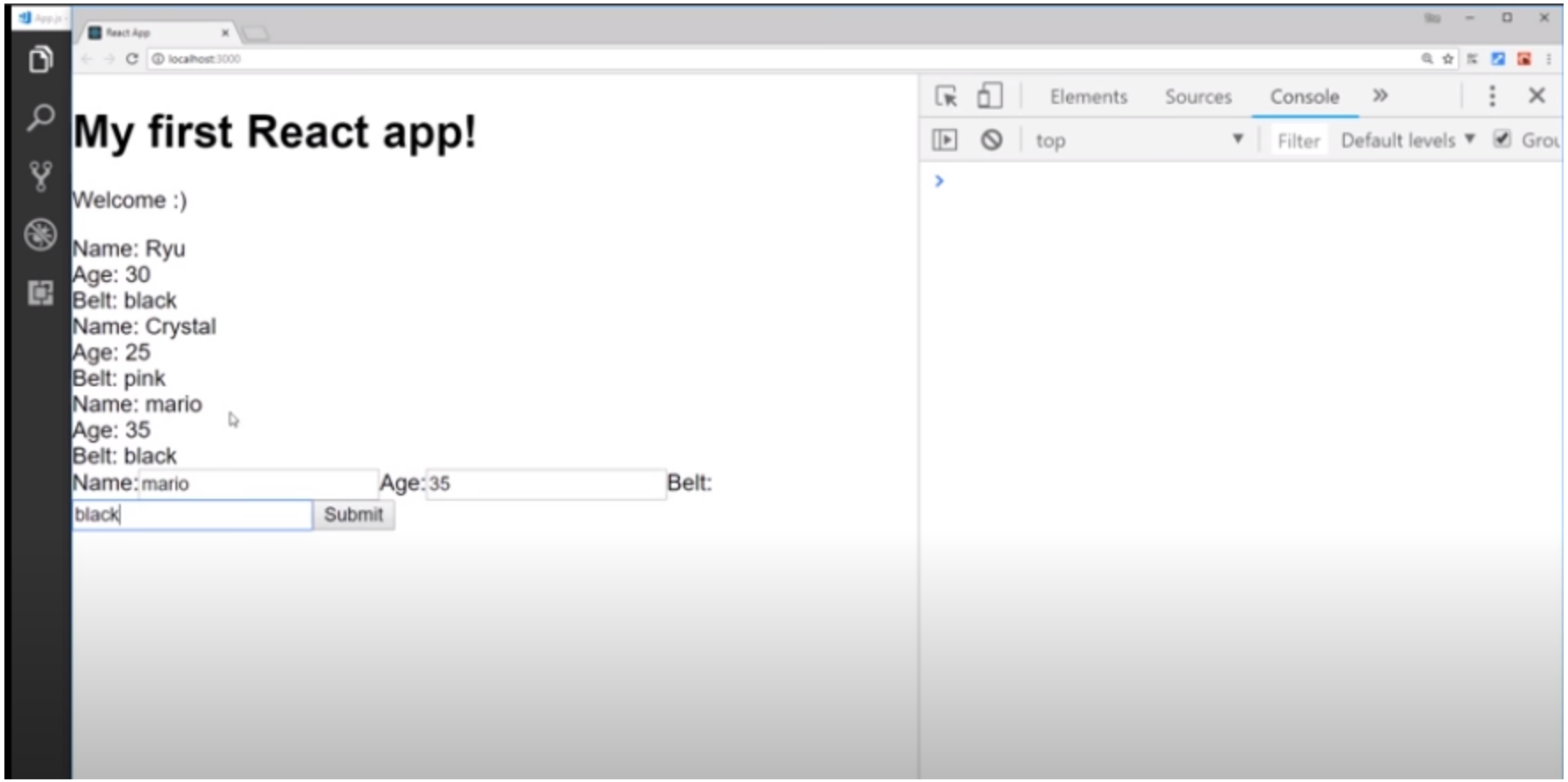
Do not alter the state without setState



Generate a copy

```
<!DOCTYPE html>
<html>


<body>


<script>
const numbers = [1, 2, 3, 4, 5, 6];


const [one, two, ...rest] = numbers;


document.write("<p>" + one + "</p>");
document.write("<p>" + two + "</p>");
document.write("<p>" + rest + "</p>");
</script>


</body>
</html>
```


App.js - react-redux-complete - Visual Studio Code
EXPLORER
OPEN EDITORS 1 UNSAVED
App.js myapp\src
AddNinja.js myapp\src
REACT-REDUX-COMPLETE
myapp
node_modules
public
favicon.ico
index.html
manifest.json
src
AddNinja.js
App.js
index.css
index.js
Ninjas.js
registerServiceWorker.js
.gitignore
package-lock.json
package.json
README.md
App.js
AddNinja.js
import React, { Component } from 'react';
import Ninjas from './Ninjas';
import AddNinja from './AddNinja';
class App extends Component {
state = {
ninjas : [
{ name: 'Ryu', age: 30, belt: 'black', id: 1 },
{ name: 'Yoshi', age: 20, belt: 'green', id: 2 },
{ name: 'Crystal', age: 25, belt: 'pink', id: 3 }
]
}
addNinja = (ninja) => {
ninja.id = Math.random();
let ninjas = [...this.state.ninjas, ninja];
this.setState({
ninjas: ninjas
})
}
render() {
return (


React App
localhost:3000
My first React app!
Welcome :)
Name: Ryu
Age: 30
Belt: black
Name: Crystal
Age: 25
Belt: pink
Name: mario
Age: 35
Belt: black
Name: mario
Age: 35
Belt:
black
Submit
Elements
Sources
Console
top
Filter
Default levels

Add delete Ninja functionality in current code