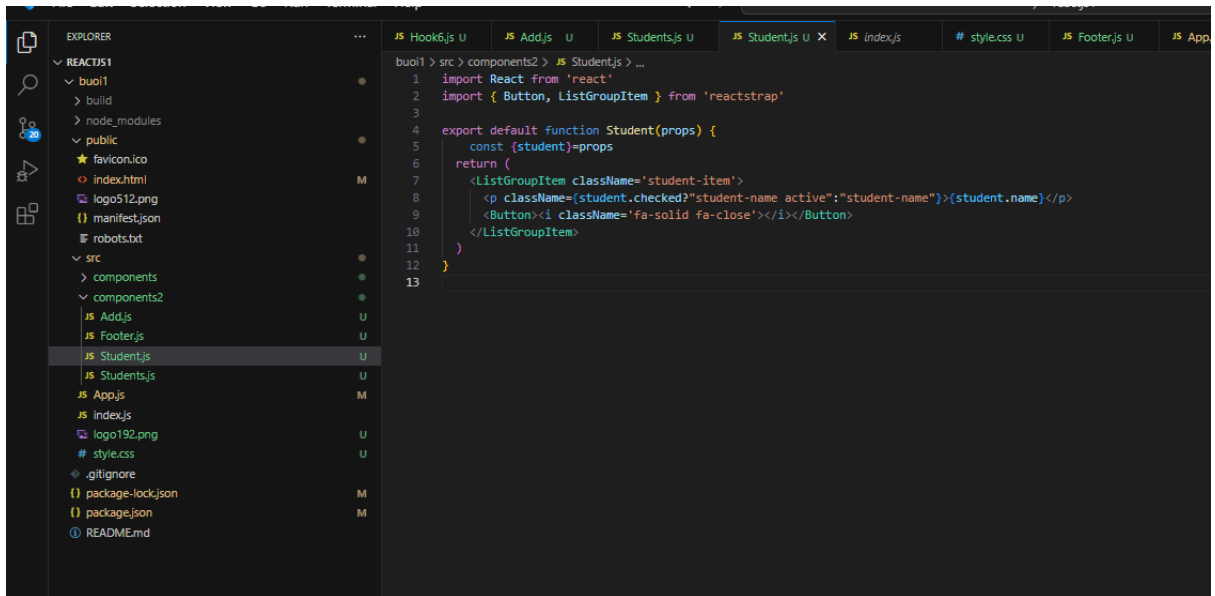


```
JS Hook6.js U X
buoi1 > src > components > hook > JS Hook6.js > ...
1 import React, { useState } from 'react'
2
3 export default function Hook6() {
4   const [student,setStudent]=useState({name:"",age:0})
5   return (
6     <div>
7       <h1>Em tên là {student.name}, em năm nay {student.age} tuổi</h1>
8       <form>
9         <input type='text' placeholder='Nhập tên' value={student.name} onChange={(e)=>setStudent({...student,name:e.target.value})} /> <br/>
10        <input type='number' placeholder='Nhập tuổi' value={student.age} onChange={(e)=>setStudent({...student,age:e.target.value})}/> <br/>
11      </form>
12    </div>
13  )
14 }
15 //({name:"",age:0,age:7})
16
```

```
File Edit Selection View Go Run Terminal Help
reactjs1

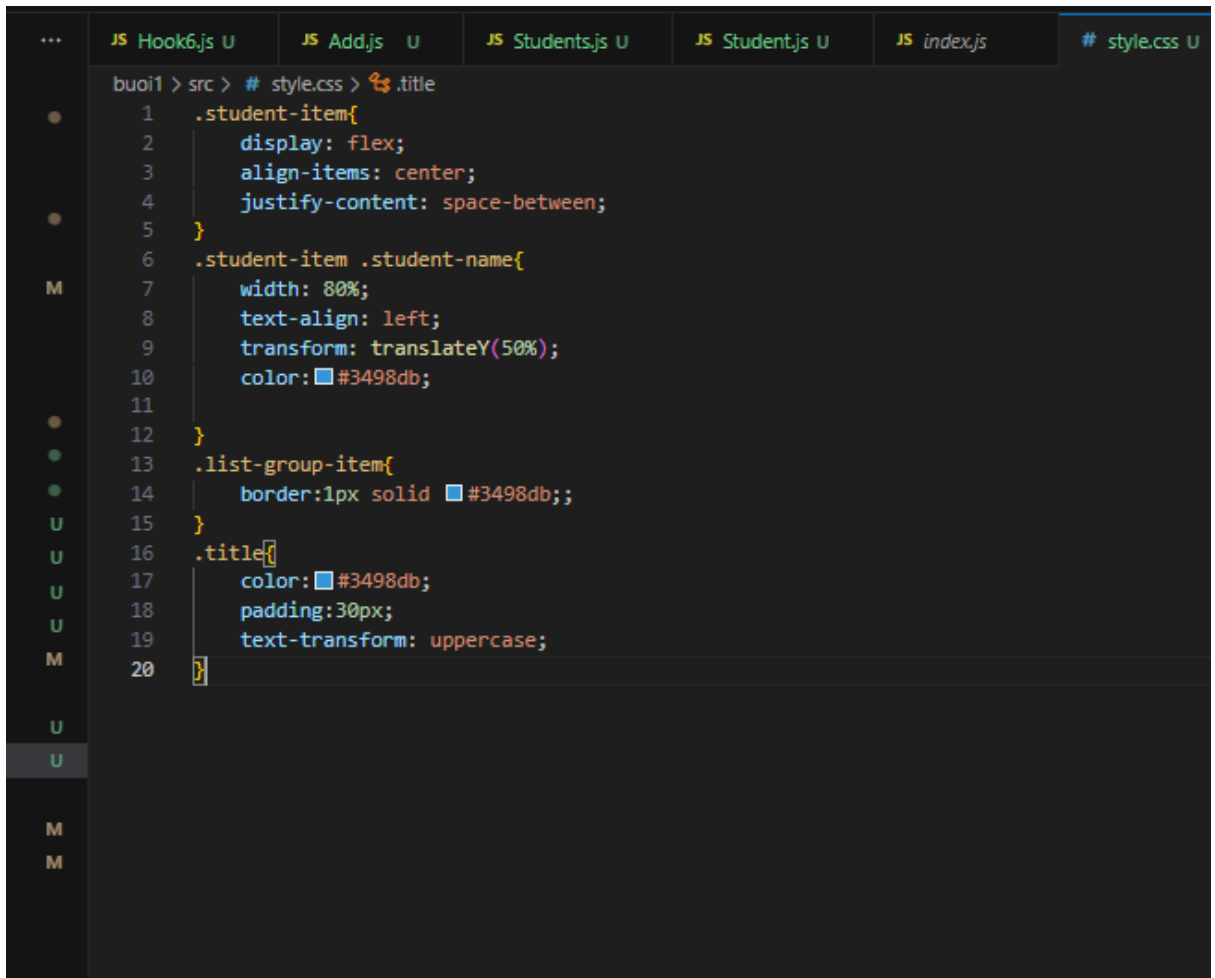
EXPLORER
REACTJS1
  buoi1
    build
    node_modules
    public
      favicon.ico
      index.html
      logo512.png
      manifest.json
      robots.txt
    src
      components
      components2
        Add.js
        Footer.js
        Student.js
        Students.js
      App.js
      Index.js
      logo192.png
      style.css
      .gitignore
      package-lock.json
      package.json
      README.md

JS Hook6.js U X JS Add.js U JS Students.js U X JS Student.js U JS index.js # style.css U JS Footer.js U JS App.js M
buoi1 > src > components2 > JS Students.js > Students
1 import React, { useState } from 'react'
2 import Add from './Add'
3 import Student from './Student'
4 import Footer from './Footer'
5 import { Container, ListGroup } from 'reactstrap'
6
7 export default function Students() {
8   const [list,setList]=useState([
9     {
10       id:1,
11       name:"Lê Mèo",
12       checked:true
13     },
14     {
15       id:2,
16       name:"Lê Thỏ",
17       checked:true
18     },
19     {
20       id:3,
21       name:"Lê Nai",
22       checked:false
23     },
24     {
25       id:4,
26       name:"Lê Hổ",
27       checked:false
28     }
29   ])
30   return (
31     <div>
32       <Container className='w-50 text-center p-5 my-5'>
33         <h1>Student list</h1>
34         <Add />
35         <ListGroup>
36           {
37             list.map((stud,index)=>(<Student key={index} student={stud}/>))
38           }
39         </ListGroup>
40         <Footer />
41       </Container>
42     </div>
43   )
44 }
45
```



The Explorer sidebar on the left shows a project structure for 'REACTJS1'. The 'src' directory contains 'components', 'components2', and 'App.js'. The 'components' directory contains 'Add.js', 'Footer.js', 'Student.js', and 'Students.js'. The 'components2' directory contains 'Add.js', 'Footer.js', and 'Student.js'. The 'App.js' file is highlighted in the Explorer. The main editor shows the content of 'Student.js'.

```
1 import React from 'react'
2 import { Button, ListGroupItem } from 'reactstrap'
3
4 export default function Student(props) {
5   const {student}=props
6   return (
7     <ListGroupItem className='student-item'>
8       <p className={student.checked?"student-name active":"student-name"}>{student.name}</p>
9       <Button<i className='fa-solid fa-close'></i></Button>
10     </ListGroupItem>
11   )
12 }
13
```



The main editor shows the content of 'style.css'. The file is open in the 'style.css' tab. The code defines styles for the student list items.


```
1 .student-item{
2   display: flex;
3   align-items: center;
4   justify-content: space-between;
5 }
6 .student-item .student-name{
7   width: 80%;
8   text-align: left;
9   transform: translateY(50%);
10  color: #3498db;
11 }
12
13 .list-group-item{
14   border: 1px solid #3498db;
15 }
16 .title{
17   color: #3498db;
18   padding: 30px;
19   text-transform: uppercase;
20 }
```




```
File Edit Selection View Go Run Terminal Help
reactjs1

EXPLORER
  REACTJS1
    build
    node_modules
    public
      favicon.ico
      index.html
      logo512.png
      manifest.json
      robots.txt
    src
      components
      components2
      Add.js
      Footer.js
      Student.js
      Students.js
      App.js
      index.js
      logo192.png
      style.css
      .gitignore
      package-lock.json
      package.json
      README.md

Hook6.js U
Add.js U
Students.js U X
Student.js U
index.js
style.css U
Footer.js U
App.js M

1 import React, { useState } from 'react'
2 import Add from './Add'
3 import Student from './Student'
4 import Footer from './Footer'
5 import { Container, ListGroup } from 'reactstrap'
6
7 export default function Students() {
8   const [list, setList] = useState([
9     {
10       id: 1,
11       name: "Lê Mèo",
12       checked: true
13     },
14     {
15       id: 2,
16       name: "Lê Thò",
17       checked: true
18     },
19     {
20       id: 3,
21       name: "Lê Nai",
22       checked: false
23     },
24     {
25       id: 4,
26       name: "Lê Hò",
27       checked: false
28     }
29   ])
30   const deleteById = (id) => {
31     setList(list.filter(stud => stud.id !== id))
32   }
33   const reChecked = (id) => {
34     let newList = list.map((stud) => stud.id === id ? { ...stud, checked: !stud.checked } : stud)
35     setList(newList)
36   }
37   return (
38     <div>
39       <Container className="w-50 text-center p-5 my-5">
40         <h1 className="title">Student list</h1>
41         <Add />
42         <ListGroup>
43           {
44             list.map((stud, index) => (<Student key={index} student={stud} deleteById={deleteById} reChecked={reChecked} />))
45           }
46         </ListGroup>
47         <Footer />
48       </Container>
49     </div>
50   )
}
```

buoi1 > src > # style.css >  .student-item .student-name.active

```
1  *{
2      margin:0;
3      padding: 0;
4      box-sizing: border-box;
5  }
6  .student-item{
7      display: flex;
8      align-items: center;
9      justify-content: space-between;
10 }
11 .student-item .student-name{
12     width: 80%;
13     text-align: left;
14     color:  #3498db;
15 }
16 }
17 .student-item .student-name.active{
18     text-decoration: line-through;
19 }
20 .list-group-item{
21     border:1px solid  #3498db;;
22 }
23 .title{
24     color:  #3498db;
25     padding:30px;
26     text-transform: uppercase;
27 }
```

STUDENT LIST

<input checked="" type="checkbox"/>	Lê Mèo	<button>×</button>
<input checked="" type="checkbox"/>	Lê Thỏ	<button>×</button>
<input type="checkbox"/>	Lê Nai	<button>×</button>
<input type="checkbox"/>	Lê Hồ	<button>×</button>

EXPLORER

REACTJS1

buoi1

build

node_modules

public

favicon.ico

index.html

logo512.png

manifest.json

robots.txt

src

components

components2

Addjs

Footer.js

Student.js

Students.js

App.js

index.js

logo192.png

style.css

.gitignore

package-lock.json

package.json

README.md

JS Hook6.js U

JS Addjs U

JS Students.js U

JS Student.js U X

JS index.js

style.css U

JS Footer.js U

JS App.js M

buoi1 > src > components2 > JS Student.js > ...

1 import React from 'react'

2 import { Button, Input, ListGroupItem } from 'reactstrap'

3

4 export default function Student(props) {

5 const {student, deleteById, reChecked}=props

6

7 return (

8 <ListGroupItem className='student-item'>

9 <Input type='checkbox' checked={student.checked} onChange={()=>reChecked(student.id)}/>

10 <div className={student.checked?'student-name active':'student-name'} onClick={()=>reChecked(student.id)}>{student.name}<

11 <Button className='btn-danger' onClick={()=>deleteById(student.id)}><i className='fa-solid fa-close'></i></Button>

12 </ListGroupItem>

13)

14

EXPLORER

REACTJS1

buoi1

build

node_modules

public

favicon.ico

index.html

logo512.png

manifest.json

robots.txt

src

components

components2

Addjs

Footer.js

Student.js

Students.js

App.js

index.js

logo192.png

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package-lock.json

package.json

README.md

JS Hook6.js U

JS Addjs U

JS Students.js U

JS Student.js U X

JS index.js

style.css U

JS Footer.js U

JS App.js M

buoi1 > src > components2 > JS Addjs > ...

1 import React, { useState } from 'react'

2 import { Input } from 'reactstrap'

3

4 export default function Add(props) {

5 const {addNewStudent}=props

6 const [text,setText]=useState("")

7

8 return (

9 <div>

10 <Input className='my-2 px-4' value={text} onChange={(e)->setText(e.target.value)} onKeyDown={

11 (e)->{

12 if(e.key=="Enter"){

13 addNewStudent(text)

14 setText("")

15 } }

16 </div>

17)

18

19

20

```
export default function Students() {
  checked: false
},
{
  id: 4,
  name: "Lê Hô",
  checked: false
}
])
const deleteById=(id)=>{
  setList(list.filter(stud=>stud.id!==id))
}
const reChecked=(id)=>{
  let newList=list.map((stud=>stud.id===id?{...stud,checked:!stud.checked}:stud))
  setList(newList)
}
const addNewStudent=(name)=>{
  setList([...list,{id:5,name:name}])
}
return (
  <div>
    <Container className='w-50 text-center p-5 my-5'>
      <h1 className='title'>Student list</h1>
      <Add addNewStudent={addNewStudent} />
      <ListGroup>
        {
          list.map((stud,index)=>(<Student key={index} student={stud}
            deleteById={deleteById} reChecked={reChecked}
            />))
        }
      </ListGroup>
      <Footer />
    </Container>
  </div>
)
```

```
export default function Students() {
  const [flag,setFlag]=useState("")
  const [list,setList]=useState([ ...
  ])
  const deleteById=(id)=>{
    setList(list.filter(stud=>stud.id!==id))
  }
  const reChecked=(id)=>{
    let newList=list.map((stud=>stud.id===id?{...stud,checked:!stud.checked}:stud))
    setList(newList)
  }
  const addNewStudent=(name)=>{
    setList([...list,{id:5,name:name}])
  }
  const filterStudents=(list,flag)=>{
    if(flag=="CHECK"){
      return list.filter(stud=>stud.checked)
    }
    else if(flag=="NOCHECK"){
      return list.filter(stud=>!stud.checked)
    }
    else if(flag=="DELETEALL"){
    }
    return list;
  }
  return (
    <div>
      <Container className='w-50 text-center p-5 my-5'>
        <h1 className='title'>Student list</h1>
        <Add addNewStudent={addNewStudent} />
        <ListGroup>
          {
            filterStudents(list,flag).map((stud,index)=>(<Student key={index} student={stud}
              deleteById={deleteById} reChecked={reChecked}
              />))
          }
        </ListGroup>
      </div>
    )
  )
}
```

EXPLORER

- REACTJS1
 - buoi1
 - build
 - node_modules
 - public
 - favicon.ico
 - index.html
 - logo512.png
 - manifest.json
 - robots.txt
 - src
 - components
 - components2
 - JS Addjs
 - JS Footerjs
 - JS Studentjs
 - JS Studentsjs
 - JS Appjs
 - JS indexjs
 - logo192.png
 - # style.css
 - .gitignore
 - package-lock.json
 - package.json
 - README.md

buoi1 > src > components2 > JS Footerjs > ...

```
1 import React from 'react'
2 import { Button } from 'reactstrap'
3
4 export default function Footer(props) {
5   const {setFlag}=props
6   return (
7     <div className='my-3'>
8       <Button className='btn-success mx-1' onClick={()=>setFlag("CHECK")}>filter check</Button>
9       <Button className='btn-success mx-1' onClick={()=>setFlag("NOCHECK")}>filter no check</Button>
10      <Button className='btn-success mx-1' onClick={()=>setFlag("")}>Clear filter</Button>
11      <Button className='btn-success mx-1' onClick={()=>setFlag("DELETEALL")}>Delete ALL</Button>
12    </div>
13  )
14 }
15
```

JS Hook6js U JS Addjs U JS Students.js U JS Studentjs U # style.css U JS Footerjs U X JS Appjs M JS indexjs

buoi1 > src > components2 > JS Footerjs > Footer

```
1 import React from 'react'
2 import { Button, Input } from 'reactstrap'
3
4 export default function Footer(props) {
5   const {setFlag,checkAll}=props
6   return (
7     <div className='my-3'>
8       <Input type='checkbox' checked={checkAll} onChange={()=>setFlag("CHECKALL")} />
9       <Button className='btn-success mx-1' onClick={()=>setFlag("CHECK")}>filter check</Button>
10      <Button className='btn-success mx-1' onClick={()=>setFlag("NOCHECK")}>filter no check</Button>
11      <Button className='btn-success mx-1' onClick={()=>setFlag("")}>Clear filter</Button>
12      <Button className='btn-success mx-1' onClick={()=>setFlag("DELETEALL")}>Delete ALL</Button>
13    </div>
14  )
15 }
16
```



```

JS Hook6.js U JS Add.js U JS Students.js U JS Student.js U # style.css U JS Footer.js U JS App.js M JS index.js
buoi1 > src > components2 > JS Students.js > Students > map() callback
4 import Footer from '../Footer'
5 import { Container, ListGroup } from 'reactstrap'
6
7 export default function Students() {
8   const [flag,setFlag]=useState("")
9   const [checkAll,setCheckAll]=useState(false)
10  > const [list,setList]=useState([ ...
35  ])
36  const deleteById=(id)=>{
37    setList(list.filter(stud=>stud.id!==id))
38  }
39  const reChecked=(id)=>{
40    let newList=list.map((stud=>stud.id===id?{...stud,checked:!stud.checked}:stud))
41    setList(newList)
42  }
43  const addNewStudent=(name)=>{
44    setList([...list,{id:5,name:name}])
45  }
46  const filterStudents=(list,flag)=>{
47    if(flag=="CHECK"){
48      return list.filter(stud=>stud.checked)
49    }
50    else if(flag=="NOCHECK"){
51      return list.filter(stud=>!stud.checked)
52    }
53    else if(flag=="DELETEALL"){
54      setList(list.filter(student=>student.checked===false))
55      setFlag("")
56    }
57    else if(flag=="CHECKALL"){
58      setList(list.map(student=>({...student,checked:!checkAll})))
59      setCheckAll(!checkAll)
60      setFlag("")
61    }
62    return list;
63  }
64  return (
65    <div>
66      <Container className='w-50 text-center p-5 my-5'>
67        <h1 className='title'>Student list</h1>
68        <Add addNewStudent={addNewStudent} />
69        <ListGroup>
70          {
71            filterStudents(list,flag).map((stud,index)=>([<Student key={index} student={stud}
72              deleteById={deleteById} reChecked={reChecked} |
73              />]))
74          }
75        </ListGroup>
76        <Footer setFlag={setFlag} checkAll={checkAll} setCheckAll={setCheckAll} />
77      </Container>
78    </div>

```

```

input[type="checkbox"]:checked {
  background-color: red !important;
}

```



```
File Edit Selection View Go Run Terminal Help
reactjs1

EXPLORER
  REACTJS1
    buoi1
      build
      node_modules
      public
        favicon.ico
        index.html
        logo512.png
        manifest.json
        robots.txt
      src
        components
        components2
        Addjs
        Footerjs
        Studentjs
        Studentsjs
        Appjs
        indexjs
        logo192.png
        style.css
        .gitignore
        package-lock.json
        package.json
        README.md

Hookjs U
Addjs U
Studentjs U
Studentjs U X
style.css U
Footerjs U
Appjs M
indexjs

buoi1 > src > components2 > Studentjs > Student
1 import React, { useState } from 'react'
2 import { Button, Input, ListGroupItem } from 'reactstrap'
3
4 export default function Student(props) {
5
6   const [isEdit, setIsEdit] = useState(false)
7   const { student, deleteById, reChecked, rename } = props
8   const [text, setText] = useState(student.name)
9
10  return (
11    <ListGroupItem className='student-item'>
12      <input type='checkbox' checked={student.checked} onChange={()=>reChecked(student.id)} />
13      <div className={student.checked ? 'student-name active' : 'student-name'}>
14        <input type='text' value={text} onChange={(e) => setText(e.target.value)} onKeyDown={(e) => {
15          if (e.key === 'Enter') {
16            setIsEdit(false);
17            rename(student.id, text)
18          }
19        }} />
20      </div>
21    </ListGroupItem>
22  )
23
24  <Button className='btn-danger' onClick={() => deleteById(student.id)}> <i className='fa-solid fa-close' /> </Button>
25  </ListGroupItem>
26  </div>
27  </div>
28  </div>
29  </div>
30  </div>
31  </div>
32  </div>
33  </div>
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91  </div>
92  </div>
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94  </div>
95  </div>
96  </div>
97  </div>
98  </div>
99  </div>
100 </div>
```

```
EXPLORER
  REACTJS1
    buoi1
      build
      node_modules
      public
        favicon.ico
        index.html
        logo512.png
        manifest.json
        robots.txt
      src
        components
        components2
        Addjs
        Footerjs
        Studentjs
        Studentsjs
        Appjs
        indexjs
        logo192.png
        style.css
        .gitignore
        package-lock.json
        package.json
        README.md

Hookjs U
Addjs U
Studentjs U X
Studentjs U
style.css U
Footerjs U
Appjs M
indexjs

buoi1 > src > components2 > Studentjs > Students
3 import Student from './Student'
4 import Footer from './Footer'
5 import { Container, ListGroup } from 'reactstrap'
6
7 export default function Students() {
8   const [flag, setFlag] = useState('')
9   const [checkAll, setCheckAll] = useState(false)
10  const [list, setList] = useState([
11    { id: 1, name: 'John', checked: true },
12    { id: 2, name: 'Jane', checked: false },
13    { id: 3, name: 'Mike', checked: false },
14    { id: 4, name: 'Emily', checked: true },
15    { id: 5, name: 'David', checked: false },
16    { id: 6, name: 'Olivia', checked: true },
17    { id: 7, name: 'Noah', checked: false },
18    { id: 8, name: 'Sophia', checked: true },
19    { id: 9, name: 'Liam', checked: false },
20    { id: 10, name: 'Mia', checked: true },
21    { id: 11, name: 'Ethan', checked: false },
22    { id: 12, name: 'Ava', checked: true },
23    { id: 13, name: 'Mason', checked: false },
24    { id: 14, name: 'Isabella', checked: true },
25    { id: 15, name: 'Caleb', checked: false },
26    { id: 16, name: 'Charlotte', checked: true },
27    { id: 17, name: 'Elijah', checked: false },
28    { id: 18, name: 'Abigail', checked: true },
29    { id: 19, name: 'Jacob', checked: false },
30    { id: 20, name: 'Madison', checked: true },
31    { id: 21, name: 'Alexander', checked: false },
32    { id: 22, name: 'Evelyn', checked: true },
33    { id: 23, name: 'William', checked: false },
34    { id: 24, name: 'Hannah', checked: true },
35    { id: 25, name: 'Benjamin', checked: false },
36    { id: 26, name: 'Grace', checked: true },
37    { id: 27, name: 'Christopher', checked: false },
38    { id: 28, name: 'Chloe', checked: true },
39    { id: 29, name: 'Matthew', checked: false },
40    { id: 30, name: 'Natalie', checked: true },
41    { id: 31, name: 'Anthony', checked: false },
42    { id: 32, name: 'Leah', checked: true },
43    { id: 33, name: 'Daniel', checked: false },
44    { id: 34, name: 'Samantha', checked: true },
45    { id: 35, name: 'Nathan', checked: false },
46    { id: 36, name: 'Katherine', checked: true },
47    { id: 37, name: 'Joshua', checked: false },
48    { id: 38, name: 'Victoria', checked: true },
49    { id: 39, name: 'Andrew', checked: false },
50    { id: 40, name: 'Brittany', checked: true },
51    { id: 41, name: 'Ryan', checked: false },
52    { id: 42, name: 'Nicole', checked: true },
53    { id: 43, name: 'Kevin', checked: false },
54    { id: 44, name: 'Alexandra', checked: true },
55    { id: 45, name: 'Jordan', checked: false },
56    { id: 46, name: 'Ashley', checked: true },
57    { id: 47, name: 'Tyler', checked: false },
58    { id: 48, name: 'Savannah', checked: true },
59    { id: 49, name: 'Jonathan', checked: false },
60    { id: 50, name: 'Kylie', checked: true },
61    { id: 51, name: 'Nathan', checked: false },
62    { id: 52, name: 'Elizabeth', checked: true },
63    { id: 53, name: 'Christopher', checked: false },
64    { id: 54, name: 'Chloe', checked: true },
65    { id: 55, name: 'Matthew', checked: false },
66    { id: 56, name: 'Natalie', checked: true },
67    { id: 57, name: 'Anthony', checked: false },
68    { id: 58, name: 'Leah', checked: true },
69    { id: 59, name: 'Daniel', checked: false },
70    { id: 60, name: 'Samantha', checked: true },
71    { id: 61, name: 'Nathan', checked: false },
72    { id: 62, name: 'Katherine', checked: true },
73    { id: 63, name: 'Joshua', checked: false },
74    { id: 64, name: 'Victoria', checked: true },
75    { id: 65, name: 'Andrew', checked: false },
76    { id: 66, name: 'Brittany', checked: true },
77    { id: 67, name: 'Ryan', checked: false },
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src > components2 > JS Students.js > Students > useEffect() callback
2 import Student from './Student'
3 import Footer from './Footer'
4 import { Container, ListGroup } from 'reactstrap'
5
6
7 export default function Students() {
8   const [flag, setFlag] = useState("")
9   const [checkAll, setCheckAll] = useState(false)
10  const [list, setList] = useState([
11    ...
12  ])
13  useEffect(() => {
14    if (localStorage.getItem("list")) {
15      setList(JSON.parse(localStorage.getItem("list")))
16    }
17  }, [])
18  console.log("render students")
19  useEffect(() => {
20    console.log("load duy nhất 1 lần")
21  }, [])
22
23  const deleteById = (id) => {
24    const newList = list.filter(stud => stud.id !== id)
25    setList(newList)
26    localStorage.setItem("list", JSON.stringify(newList))
27  }
28
29  const reChecked = (id) => {
30    let newList = list.map((stud) => stud.id === id ? { ...stud, checked: !stud.checked } : stud)
31    setList(newList)
32    localStorage.setItem("list", JSON.stringify(newList))
33  }
34
35  const rename = (id, name) => {
36    let newList = list.map(stud => stud.id === id ? { ...stud, name: name } : stud)
37    setList(newList) // list = newList
38    localStorage.setItem("list", JSON.stringify(newList))
39  }
40
41  const addNewStudent = (name) => {
42    const newList = [...list, { id: list.length === 0 ? 1 : list.reduce((value, item) => Math.max(item.id, value) + 1, 0), name: name, checked: false }]
43    setList(newList)
44    localStorage.setItem("list", JSON.stringify(newList))
45  }
46
47  const filterStudents = (list, flag) => {
48    if (flag === "CHECK") {
49      return list.filter(stud => stud.checked)
50    }
51    else if (flag === "NOCHECK") {
52      return list.filter(stud => !stud.checked)
53    }
54    else if (flag === "DELETEALL") {
55      setList(list.filter(student => student.checked === false))
56      localStorage.setItem("list", JSON.stringify(list.filter(student => student.checked === false)))
57      setFlag("")
58    }
59    else if (flag === "CHECKALL") {
60      setList(list.map(student => ({ ...student, checked: !checkAll })))
61      localStorage.setItem("list", JSON.stringify(list.map(student => ({ ...student, checked: !checkAll }))))
62      setCheckAll(!checkAll)
63      setFlag("")
64    }
65    return list
66  }
67
68  }
69

```