

```

import React, { Component } from 'react';

import Button from './Button';

import './Item.css'

export default class Item extends Component {
  constructor(props) {
    super(props);

    this.state = {
      currentCount: 0
    };

    this.increase = this.increase.bind(this);
    this.onRemove = this.onRemove.bind(this);
  }

  render() {
    let className = 'Item';
    if (this.state.currentCount === this.props.item.count) {
      className += ' Item-done'
    }
    return(
      <section className={className}>
        <section>
          {this.props.item.name}
        </section>
        <section className="Item-stats">
          <section className="Item-count">
            <section>
              {this.state.currentCount}
            </section>
            /
            <section>
              {this.props.item.count}
            </section>
          </section>
          <section className="Item-actions">
            <Button text='up' click={this.increase}/>
            <Button text='remove' click={this.onRemove}/>
          </section>
        </section>
      </section>
    );
  }

  increase() {
    if (this.state.currentCount < this.props.item.count) {
      this.setState({currentCount: this.state.currentCount + 1});
    }
  }

  onRemove() {
    this.props.remove(this.props.item.id);
  }
}

import React, { Component } from 'react';

```

```

import ItemModel from '../data/item';
import { items } from '../data/items';

import Item from './Item';
importNewItem from './NewItem';

import './ItemList.css';

export default class ItemList extends Component {
  constructor(props) {
    super(props);

    this.state = {
      items
    };

    this.add = this.add.bind(this);
    this.remove = this.remove.bind(this);
  }

  render() {
    const list = this.state.items.map(item => <Item key={item.id} item={item} remove={this.remove}/>);
    return (
      <section className="ItemList">
        <NewItem add={this.add}/>
        <section>
          {list}
        </section>
      </section>
    );
  }

  add(name, count) {
    const newItem = new ItemModel(name, count);
    this.setState({items: [...this.state.items, newItem]});
  }

  remove(id) {
    const { items } = this.state;
    const index = items.findIndex(item => item.id === id);
    if (index >= 0) {
      // except element with specified index
      const newItems = [
        ...items.slice(0, index),
        ...items.slice(index + 1, items.length)
      ];
      this.setState({items: newItems});
    }
  }
}

```

```

import React, { Component } from 'react';

import Button from './Button';

import './NewItem.css';

export default class NewItem extends Component {
  constructor(props) {
    super(props);

    this.state = {
      name: '',
      count: 0
    };

    this.onChangeName = this.onChangeName.bind(this);
    this.onChangeCount = this.onChangeCount.bind(this);
    this.onAdd = this.onAdd.bind(this);
  }

  render() {
    const { name, count } = this.state;
    return (
      <section className="NewItem">
        Name:
        <input type="text" name="name" value={name} onChange={this.onChangeName}/>
        Count:
        <input type="text" name="count" value={count} onChange={this.onChangeCount}/>
        <Button text='add' click={this.onAdd} />
      </section>
    );
  }

  onChangeName(event) {
    this.setState({name: event.target.value})
  }

  onChangeCount(event) {
    const value = parseInt(event.target.value, 10);
    this.setState({count: value});
  }

  onAdd() {
    const { name, count } = this.state;
    this.props.add(name, count);
  }
}

```

```
import React, { Component } from 'react';
import './App.css';
import ItemList from './components/ItemList';
```

```
class App extends Component {
  render() {
    return (
      <section className="App">
        <ItemList />
      </section>
    );
  }
}
```

```
export default App;
```

```
const guid = () => {
  const s4 = () => Math.floor((1 + Math.random()) * 0x10000).toString(16).substring(1);
  return s4() + s4() + '-' + s4() + '-' + s4() + '-' + s4() + '-' + s4() + s4() + s4();
}
```

```
export default class Item {
  constructor(name = '', count = 0) {
    this.id = guid();
    this.name = name;
    this.count = count;
  }
}
```

```
import Item from './item';
```

```
const items = [
  new Item('Картоха', 5),
  new Item('Сыр', 2),
  new Item('Платье', 1),
  new Item('Сковорода', 2),
  new Item('Карандаши', 4),
];
```

```
export { items };
```