2. Best Practice

- The **state** should be **immutable**. We shouldn't update the array/object directly.
- The best practice is to create a new array/object from the array/object in the previous state using the **spread** operator.

```
i 1 this.state.contactsList = initialContactsList

JAVASCRIPT

I this.state.contactsList.push(...)

JAVASCRIPT

1 this.setState(prevState => ({
2 contactsList: [...prevState.contactsList, newContact],
}
```

2.1 Updating a Property of an Item inside List

We should not update the property of a list item directly. To update the property of a list item, we should create a new object and return it to the list.

Syntax:

i 3 }))

```
1 {...object, newItem}
```

Exmaple:

File: src/App.js

```
1 import {Component} from 'react'
2 import {v4 as uuidv4} from 'uuid'
3
```

```
4 import ContactItem from './components/ContactItem'
 6 import './App.css'
8 - const initialContactsList = [
      id: uuidv4(),
     name: 'Ram',
     mobileNo: 9999988888,
     isFavorite: false,
     id: uuidv4(),
     name: 'Pavan',
     mobileNo: 8888866666,
     isFavorite: true,
     id: uuidv4(),
     name: 'Nikhil',
     mobileNo: 9999955555,
     isFavorite: false,
27
29 - class App extends Component {
30 ▼ state = {
     contactsList: initialContactsList,
     name: '',
      mobileNo: '',
      toggleIsFavorite = id => {
      this.setState(prevState => ({
         contactsList: prevState.contactsList.map(eachContact => {
       if (id === eachContact id) {
```

```
return {...eachContact, isFavorite: !eachContact.isFavorite}
     return eachContact
   }),
 }))
onAddContact = event => {
 event.preventDefault()
 const {name, mobileNo} = this.state
 const newContact = {
   id: uuidv4(),
   name,
   mobileNo,
   isFavorite: false,
 this.setState(prevState => ({
    contactsList: [...prevState.contactsList, newContact],
   name: '',
   mobileNo: '',
 }))
onChangeMobileNo = event => {
 this.setState({mobileNo: event.target.value})
onChangeName = event => {
 this.setState({name: event.target.value})
render() {
 const {name, mobileNo, contactsList} = this.state
```

```
<div className="app-container">
 <div className="responsive-container">
   <h1 className="heading">Contacts</h1>
   <form className="contact-form-container" onSubmit={this.onAddContact}>
    <input</pre>
      value={name}
      onChange={this.onChangeName}
      className="input"
      placeholder="Name"
    <input</pre>
      className="input"
      value={mobileNo}
      onChange={this.onChangeMobileNo}
      placeholder="Mobile Number"
    <button type="submit" className="button">
      Add Contact
    </button>
   </form>
   Name
      <hr className="separator" />
      Mobile Number
    {contactsList.map(eachContact => (
      <ContactItem
        key={eachContact.id}
        contactDetails={eachContact}
        toggleIsFavorite={this.toggleIsFavorite}
    ))}
   </div>
```