Lesson 4



[Что мы рассмотрим:]

- Что такое Redux и какие задачи он решает
- Основные принципы Redux
- Установка и использование Redux в ваших проектах

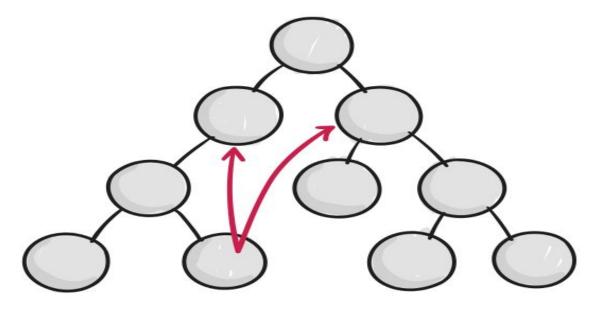


Что такое Redux



Redux — это инструмент управления как состоянием данных, так и состоянием интерфейса в JavaScript-приложениях.

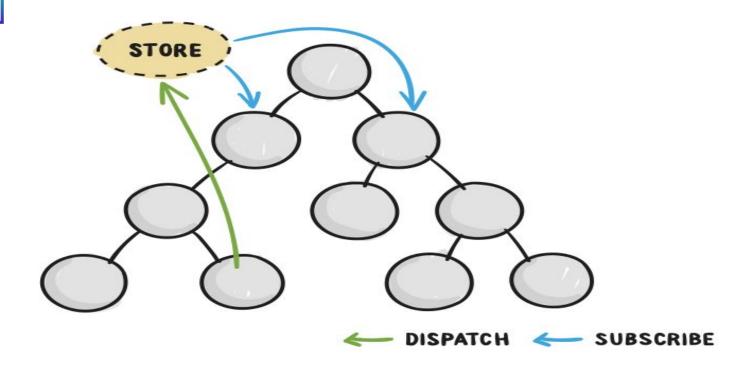






POOR PRACTICE WHEN COMPONENTS TRY TO COMMUNICATE DIRECTLY

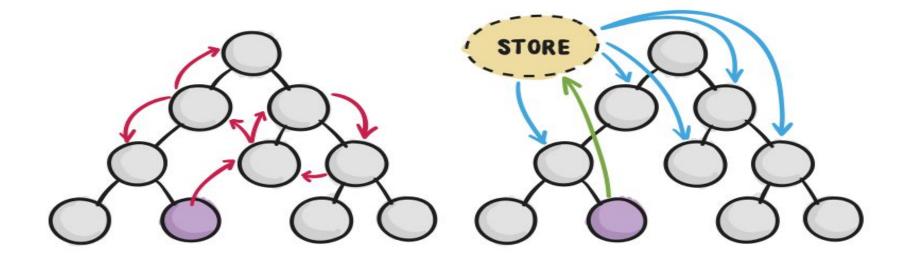






WITHOUT REDUX

WITH REDUX







```
npm i redux react-redux --S
```

./src/index.js



./src/store.js

```
import {createStore} from 'redux'
import rootReducer from './reducers/index'

const store = createStore(rootReducer)

export default store;
```



./src/reducers/index.js

```
import {combineReducers} from 'redux'

const rootReducer = combineReducers ({
})

export default rootReducer;
```



./src/reduceres/mails/index.js

```
const initialState = {
 mailList: { getted: [], sent: [] },
function mails (state = initialState, action) {
 switch (action.type){
 case 'SENT EMAIL': //что делаем при отправке письма
    let updatedSentMailList = [...this.state.mailList.sent];
    updatedSentMailList.push(action.payload)
    return {...state, mailList: {...this.state.mailList, sent: [...updatedSentMailList]}}
 default:
   return {...state}
export default mails
```

./src/components/MailList/index.js

```
import {connect} from 'react-redux';
...
const mapStateToProps = (state) => {
    return {
        // из стора мы берем переменную mailList
        // и заимпортируем в наш компонент под именем
        // mailList в пропсы
            mails: state.mails.mailList,
      }
}
export default connect(mapStateToProps)(MailList)
```

./src/actions/mails.js

```
export const DEL_EMAIL= 'DEL_EMAIL'
```

./src/reducers/mails/index.js

```
import { DEL_EMAIL } from '../../actions/mails'
...
function mails (state = initialState, action) {
    switch (action.type){
    ...
        case DEL_EMAIL:
        return {...state, mailList: action.payload}
    ...
    }
}
```

./src/components/MailList/index.js

```
const mapDispatchToProps = (dispatch) => {
 return {
    delEmail: (delID, mailList) => {
      let newMailList = {...mailList }
      for(let key in newMailList){
        newMailList[key] = newMailList[key].filter( (item) => {
          return item.id != delID ? item : null
        })
      dispatch({ type: DEL EMAIL, payload: {mailList: newMailList} })
export default connect(mapStateToProps, mapDispatchToProps)(MailList)
```

