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Лабораторная работа №1-2
по дисциплине: **СЯРД**
Тема: Введение в React

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Цель работы Познакомиться с библиотекой React

Задание Создать систему авторизации и регистрации пользователя.
В работе использован React, Redux, React-Forms, Redux-Thunk.

Login.js

```
1  import React, {useState} from "react";
2  import {Redirect, withRouter} from "react-router";
3  import LoginFormRedux from "./LoginForm";
4  import Alert from "@material-ui/lab/Alert";
5  import {Container} from "@material-ui/core";
6  import {compose} from "redux";
7  import {loginThunkCreator} from "../../redux/reducers/login-reducer";
8  import {connect} from "react-redux";
9
10 const Login = ({doLogin, isLogged}) => {
11
12     let [error, setError] = useState("")
13
14     const onSubmit = async (formData) => {
15         let result = await doLogin(formData.login, formData.password)
16         if (result) {
17             setError(result);
18         }
19     }
20
21     let alert;
22     if (error) {
23         alert = <Alert severity="error">{error}</Alert>
24     }
25
26     if (isLogged) {
27         return (<Redirect to={"/"}/>)
28     } else {
29         return (
30             <Container maxWidth="sm">
31                 {alert}
32                 <LoginFormRedux onSubmit={onSubmit}/>
33             </Container>
34         )
35     }
36 }
37
38 let mapState = (state) => {
39     return {
40         isLogged: state.login.isLogged
41     }
42 }
43
44 const LoginContainer = compose(
45     withRouter,
46     connect(mapState, {
47         doLogin: loginThunkCreator.doLogin,
48     })
49 )(Login)
50
51 export default LoginContainer;
```

LoginForm.js

```
1  import React from "react";
2  import {Form, reduxForm} from "redux-form";
3  import {Button, ButtonGroup, FormControl} from "@material-ui/core";
4  import TextFieldFormItem from "../form/TextFieldFormItem";
5  import SubmitButton from "../buttons/SubmitButton";
6  import {NavLink} from "react-router-dom";
7
8  const LoginForm = ({handleSubmit}) =>
9      <Form
10         onSubmit={handleSubmit}
11         style={{justifyContent: "end"}}>
12         <FormControl variant={"outlined"} margin={"normal"} fullWidth>
13             <TextFieldFormItem name={"login"} label={"Login"}/>
14             <TextFieldFormItem name={"password"} label={"Password"}/>
15             <ButtonGroup>
16                 <SubmitButton message={"Login"}/>
17                 <Button message={"Register"} component={NavLink} to={"/register"}>
```

```
18                    Register
19               </Button>
20            </ButtonGroup>
21          </FormControl>
22       </Form>
23
24
25   const LoginFormRedux = reduxForm({form: 'loginForm', enableReinitialize: true})(LoginForm)
26   export default LoginFormRedux;
```

login.js

```
1    import axios from "axios";
2
3    const axiosInstance = axios.create({
4        baseURL: 'http://localhost:8080/'
5    })
6
7    export const loginAPI = {
8        doLogin: async (login, password) => {
9            const response = await axiosInstance.put('login', {login, password})
10           return response.status === 200;
11       },
12       doRegister: async (login, password) => {
13           const response = await axiosInstance.post('register', {login, password})
14           return response.status === 200;
15       },
16   }
```

login-reducer.js

```
1    import {loginAPI} from "../../api/login";
2
3    const login = 'login/login'
4
5    const initState = {
6        isLogged: false
7    }
8
9    const loginReducer = (state = initState, action) => {
10       switch (action.type) {
11           case login: {
12               return {...state, isLogged: action.isLogged}
13           }
14           default: {
15               return state;
16           }
17       }
18   }
19
20   export default loginReducer;
21
22   export const loginActionCreator = {
23       login: (isLogged) => ({type: login, isLogged})
24   }
25
26   export const loginThunkCreator = {
27       doLogin: (login, password) => async (dispatch) => {
28           try {
29               const isOk = await loginAPI.doLogin(login, password)
30               dispatch(loginActionCreator.login(isOk))
31           } catch (e) {
32               return "Login or username is incorrect";
33           }
34       }
35   }
36
37   export const registerThunkCreator = {
38       doRegister: (login, password) => async (dispatch) => {
39           try {
40               const isOk = await loginAPI.doRegister(login, password)
41               dispatch(loginActionCreator.login(isOk))
42           } catch (e) {
43               return "The user is already exist";
44           }
45       }
46   }
```

Login

Password

Login   Register

⊘ Login or username is incorrect

Login
test

Password
wrong

Login   Register

⊘ The user is already exist

Login
test

Password
1

Confirm password
1

Register

Directors Titles

Вывод Разработано WEB проложение на React с возможностью логина и реги-
страции.