**ОГЛАВЛЕНИЕ**

**bla**

**ВВЕДЕНИЕ**

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**ГЛАВА 1. ТЕХНОЛОГИИ СОЗДАНИЯ ДИНАМИЧЕСКИХ ВЕБ-ПРИЛОЖЕНИЙ**

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**ГЛАВА 2. КОМПОНЕНТНЫЙ ПОДХОД ПРОГРАММИРОВАНИЯ ВО FRONT-END**

**bla**

**ГЛАВА 3. РАЗРАБОТКА FRONT-END ПРИЛОЖЕНИЯ УПРАВЛЕНИЯ АВТОМАТИЗИРОВАННЫМ ТЕСТИРОВАНИЕМ ПРОЕКТОВ**

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**ЗАКЛЮЧЕНИЕ**

bla

**СПИСОК СОКРАЩЕНИЙ И УСЛОВНЫХ ОБОЗНАЧЕНИЙ**

bla

**СПИСОК ТЕРМИНОВ**

bla

**СПИСОК ИСПОЛЬЗОВАННОЙ ИСТОЧНИКОВ**

bla

**Приложение А. Исходный код некоторых компонент**

App.js:

import React, { Component } from 'react';

import { Router, Switch, Route } from 'react-router'

import createHistory from 'history/createBrowserHistory';

import Header from './components/Header';

import Footer from './components/Footer';

import HomePage from './pages/HomePage';

import AboutMePage from './pages/AboutMePage';

import ItemPage from './pages/ItemPage';

import ErrorPage from './pages/ErrorPage';

import LogoPage from './pages/LogoPage';

import TaskManagerPage from './pages/TaskManagerPage';

import \* as PropTypes from 'prop-types';

class App extends Component {

static PAGE\_LINKS = [

{ "link": "/task-manager", "title": "Task manager" },

{ "link": "/about", "title": "About me" }

];

getChildContext() {

return {

pageLinks: App.PAGE\_LINKS

}

}

render() {

return (

<div className="app">

<Header text="Front-end EPAM training" />

<Router history={ createHistory() }>

<Switch>

<Route exact path="/" component={ HomePage } />

<Route path="/about" component={ AboutMePage } />

<Route path="/task-manager" component={ TaskManagerPage } />

<Route path="/item/:name/:environment" component={ ItemPage } />

<Route path="/logo.txt" component={ LogoPage }/>

<Route path="/\*" component={ ErrorPage } />

</Switch>

</Router>

<Footer date="2017" title="Kuzmiankou Anatoli" />

</div>

);

}

static childContextTypes = {

pageLinks: PropTypes.arrayOf(PropTypes.shape({

link: PropTypes.string,

title: PropTypes.string

}))

}

}

export default App;

TaskManagerPage.js:

import React, { Component } from 'react';

import AddComponentWindow from '../components/AddComponentWindow';

import TableBox from '../components/TableBox';

import TaskComponentManager from '../components/TaskComponentManager';

import Counter from '../components/Counter';

import Main from '../components/Main';

import \* as PropTypes from 'prop-types';

import { connect } from 'react-redux'

import { loadTasks, loadTasksSuccess } from '../redux/action/TaskAction';

class TaskManagerPage extends Component {

componentDidMount() {

this.props.loadingData();

}

createTaskManager(data, number) {

const { name, environments } = data;

return (

<TaskComponentManager taskName={ name } key={ name } tasks={ environments } />

);

}

static ENVIRONMENTS = [

{ name: "int", title: "INT" },

{ name: "qa", title: "QA" },

{ name: "staging", title: "Staging" },

{ name: "production", title: "Production" }

];

getChildContext() {

return {

environments: TaskManagerPage.ENVIRONMENTS

};

}

render() {

const { loading, tasks } = this.props;

return (

<Main name="Task manager" loading={ loading }>

<Counter title="Shared Services / Component" name="components-count" count={ tasks.length } />

<AddComponentWindow />

<TableBox>

{ tasks.map( (item, number) => this.createTaskManager(item, number) ) }

</TableBox>

</Main>

);

}

static childContextTypes = {

environments: PropTypes.arrayOf(PropTypes.shape({

name: PropTypes.string,

title: PropTypes.string

}))

}

}

const mapStateToProps = state => {

const { TaskReducer } = state;

return { ...TaskReducer };

}

const mapDispatchToProps = dispatch => ({

loadingData: () => {

dispatch(loadTasks());

fetch('http://localhost:9999/data/projects')

.then(res => res.json())

.then(json => dispatch(loadTasksSuccess(json)));

}

});

export default connect(mapStateToProps, mapDispatchToProps)(TaskManagerPage);

Task.js:

import \* as BodyFactory from "./lib/TaskBodyFactory";

import \* as StatusFactory from "./lib/TaskStatusFactory";

import TaskStatus from "./lib/TaskStatus";

import \* as PropTypes from 'prop-types';

import { connect } from 'react-redux';

import { refreshTask, refreshTaskSuccess } from '../../redux/action/TaskAction';

import autoBind from 'react-autobind';

class Task extends Component {

constructor(props) {

super(props);

autoBind(this);

}

refreshAction() {

const { name, env } = this.props;

this.props.refreshAction({ name, env });

}

shouldComponentUpdate(nextProps, nextState) {

for(let index in this.props) {

if(this.props[index] !== nextProps[index]) {

return true;

}

}

return false;

}

render() {

const { env, link, data } = this.props;

const { status, version } = this.props.data;

return(

<td className={ `task task-${ env } task-${ TaskStatus[status].toLowerCase() }` }>

<div className="header">

<div className="version">{ version }</div>

{ StatusFactory.createStatus(status) }

</div>

{ BodyFactory.createBodyElem(data) }

<div className="control-panel">

<a href={ link } className="link" ><span className="icon-link" /></a>

<button className="refresh icon-refresh" onClick={ this.refreshAction } />

</div>

</td>

);

}

static defaultProps = {

name: "PROJECT",

env: "int",

data: {

version: "v-.-.-",

status: TaskStatus.MESSING

}

}

static propsTypes = {

name: PropTypes.string,

env: PropTypes.string,

data: PropTypes.shape({

version: PropTypes.string,

status: PropTypes.number,

timestamps: PropTypes.string,

testResult: PropTypes.shape({

total: PropTypes.number,

failed: PropTypes.number,

passed: PropTypes.number,

skipped: PropTypes.number

}),

logo: PropTypes.string

}),

link: PropTypes.string

};

}

const mapDispatchToProps = dispatch => ({

refreshAction: params => {

dispatch(refreshTask());

fetch('http://localhost:9999/data/refresh', {

method: 'post',

headers: {

'Accept': 'application/json',

'Content-Type': 'application/json'

},

body: JSON.stringify(params)

}).then(res => res.json())

.then(data => dispatch(refreshTaskSuccess(params, data)));

}

});

export default connect(null, mapDispatchToProps)(Task);

TaskBodyFactory.js:

import React from 'react';

import Status from './TaskStatus';

import moment from 'moment';

const viewQueue = status => (

<div className="inqueue" key="inqueue">In queue</div>

)

const viewTests = tests => (

<div key="tests">

{ `${ tests.failed } failed, ${ tests.passed } passed, ${ tests.skipped } skipped, ${ tests.total } total` }

</div>

);

const viewLogo = link => (

<div key="link">See <a href={ `/${ link }` } target="\_blank">{ link }</a></div>

);

const viewTime = time => (

<div key="date">{ moment(time).fromNow() }</div>

);

export const createBodyElem = data => (

<div className="body">

{ data.status === Status.QUEUE && viewQueue(data.status) }

{ data.testResult && viewTests(data.testResult) }

{ data.logo && viewLogo(data.logo) }

{ data.timestamps && viewTime(data.timestamps) }

</div>

);

TaskStatus.js:

const TaskStatus = {

QUEUE: 'QUEUE',

MISSING: 'MISSING',

RUNNING: 'RUNNING',

FAILED: 'FAILED',

SUCCESS: 'SUCCESS',

W\_O\_FAILED: 'W\_O\_FAILED'

}

export default TaskStatus;

TaskStatusFactory.js:

import React from 'react';

import Status from './TaskStatus';

const titles = {

[Status.QUEUE]: "IN QUEUE",

[Status.MISSING]: "MISSING AURA.JSON",

[Status.RUNNING]: "RUNNING",

[Status.FAILED]: "FAILED",

[Status.W\_O\_FAILED]: "FAILED"

}

const icons = {

[Status.SUCCESS]: "icon-ok",

[Status.W\_O\_FAILED]: "icon-warning"

}

export const createStatus = status => (

<div className={ `status ${ icons[status] }` }>{ titles[status] }</div>

);

AddComponentWindow.js:

import React, {Component} from 'react';

import TextForm from './TextForm';

import ModalWindow from './ModalWindow';

import \* as PropTypes from 'prop-types';

import { addProjectTasks, addProjectTasksSuccess } from '../redux/action/TaskAction';

import { connect } from 'react-redux';

import autoBind from 'react-autobind';

class AddComponentWindow extends Component {

constructor(props) {

super(props);

autoBind(this);

}

getChildContext() {

const { environments } = this.context;

const fields = [{ name: "name", labelValue: "Item name" }];

environments && environments.forEach( item =>

fields.push({

name: item.name,

labelValue: `${ item.title } envirment url`

})

);

return { fields };

}

formAction(data) {

this.hideWindow();

this.props.addComponent(data);

this.form.resetAction();

}

hideWindow() {

this.modalWindow.hide();

}

showWindow() {

this.modalWindow.show();

}

render() {

return (

<figure className="add-component" name="add-component">

<button name="add-component" onClick={ this.showWindow }

className="btn-add-component">Add Component</button>

<ModalWindow ref={ window => this.modalWindow = window } title="Add component item">

<TextForm ref={ form => this.form = form } submitName="Add" submitAction={ this.formAction }/>

</ModalWindow>

</figure>

);

}

static contextTypes = {

environments: PropTypes.arrayOf(PropTypes.shape({

name: PropTypes.string,

title: PropTypes.string

})),

};

static childContextTypes = {

fields: PropTypes.arrayOf(PropTypes.shape({

name: PropTypes.string,

labelValue: PropTypes.string

}))

};

}

const mapDispatchToProps = dispatch => ({

addComponent: params => {

dispatch(addProjectTasks(params.name));

fetch('http://localhost:9999/data/add-project', {

method: 'post',

headers: {

'Accept': 'application/json',

'Content-Type': 'application/json'

},

body: JSON.stringify(params)

}).then(res => res.json())

.then(json => dispatch(addProjectTasksSuccess(json)));

}

});

export default connect(null, mapDispatchToProps)(AddComponentWindow);

ModalWindow.js:

import React, {Component} from "react";

import \* as PropTypes from 'prop-types';

import autoBind from 'react-autobind';

class ModalWindow extends Component {

constructor(props) {

super(props);

autoBind(this);

}

componentDidMount() {

if(this.props.startVisible) {

this.show();

}

else {

this.hide();

}

}

hide() {

this.window.style.display = "none";

}

show() {

this.window.style.display = "block";

}

render() {

const { id, name, title, children } = this.props;

return (

<figure

id={ id }

name={ name }

className={ "modal modal-" + name }

ref={ window => this.window = window }

>

<div className="modal-content">

<h2>{ title }</h2>

<button className="btn-close" onClick={ this.hide }>x</button>

{ children }

</div>

</figure>

);

}

static defaultProps = {

name: "window",

title: "Modal window",

startVisible: false

};

static propTypes = {

id: PropTypes.string,

name: PropTypes.string,

title: PropTypes.string,

startVisible: PropTypes.bool

};

}

export default ModalWindow;

TaskComponentManager.js:

import React, {Component} from 'react';

import Task from './task/Task';

import \* as PropTypes from 'prop-types';

import { connect } from 'react-redux';

import { removeProjectTasks, removeProjectTasksSuccess } from '../redux/action/TaskAction';

import autoBind from 'react-autobind';

class TaskComponentManager extends Component {

constructor(props) {

super(props);

autoBind(this);

}

createTask(key, task) {

const name = this.props.taskName;

return (

<Task

name={ name }

key={ key }

env={ key }

data={ task }

link={ `/item/${ name }/${ key }` }

/>

)

}

createEmptyTask(key) {

return <td key={ key }><div className="task-empty" /></td>

}

createTasks(tasks) {

return this.context.environments.map(item => {

const name = item.name;

const task = tasks[name];

return task ? this.createTask(name, task) : this.createEmptyTask(name);

});

}

removeComponent() {

this.props.removeAction({ name: this.props.taskName });

}

render() {

const { name, taskName, tasks } = this.props;

return (

<tbody className={ `task-component-manager manager-${ name }` }>

<tr>

<td className="task-manager">

<h2 className="title">{ taskName }</h2>

<ul className="settings icon-setting">

<li onClick={ this.removeComponent }>Remove</li>

</ul>

</td>

{ this.createTasks(tasks) }

</tr>

</tbody>

);

}

static defaultProps = {

name: "task-manager"

};

static contextTypes = {

environments: PropTypes.arrayOf(PropTypes.shape({

name: PropTypes.string,

title: PropTypes.string

})),

};

static propTypes = {

name: PropTypes.string,

taskName: PropTypes.string,

tasks: PropTypes.objectOf(PropTypes.shape({

version: PropTypes.string,

status: PropTypes.string,

testResult: PropTypes.shape({

total: PropTypes.number,

failed: PropTypes.number,

passed: PropTypes.number,

skipped: PropTypes.number

}),

timestatmps: PropTypes.string,

logo: PropTypes.string

}))

};

}

const mapDispatchToProps = dispatch => ({

removeAction: params => {

dispatch(removeProjectTasks());

fetch('http://localhost:9999/data/remove-tasks', {

method: 'post',

headers: {

'Accept': 'application/json',

'Content-Type': 'application/json'

},

body: JSON.stringify(params)

}).then(res => res.json())

.then(data => dispatch(removeProjectTasksSuccess(params.name, data.result)));

}

});

export default connect(null, mapDispatchToProps)(TaskComponentManager);

NavBar.js:

import React from 'react';

import \* as PropTypes from 'prop-types';

const NavBar = (props, context) => {

const { name } = context

return (

<nav className="nav-bar">

<ul className="nav-bar-menu">

<li className="horisontal"><a href="/">Home</a></li>

{

(name)

? <li className="horisontal">{ name }</li>

: undefined

}

</ul>

</nav>

);

}

NavBar.contextTypes = {

name: PropTypes.string

};

export default NavBar;

TableBox.js:  
import React, {Component} from 'react';

import \* as PropTypes from 'prop-types';

class TableBox extends Component {

createTH(name) {

return (

<th className="column-tittle" key={ name }>{ name }</th>

);

}

render() {

const { environments } = this.context;

return (

<table className="table-box">

<thead>

<tr>

{ this.createTH("Name") }

{ environments && environments.map( item => this.createTH(item.title) ) }

</tr>

</thead>

{ this.props.children }

</table>

)

}

static contextTypes = {

environments: PropTypes.arrayOf(PropTypes.shape({

title: PropTypes.string

})),

};

}

export default TableBox;

Main.js:

import React, { Component } from 'react';

import \* as PropTypes from 'prop-types';

import NavBar from './NavBar';

import Loading from './Loading';

class Main extends Component {

getChildContext() {

const { name } = this.props;

return {

name

}

}

render() {

const { loading, children } = this.props;

return (

<main>

<NavBar />

{

(loading)

? <Loading />

: <div className="main-content">{ children }</div>

}

</main>

);

}

static childContextTypes = {

name: PropTypes.string,

loading: PropTypes.bool

};

}

export default Main;