Lab # 9

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Class: BSCS 7A

CMS #229143

Code:

Apps.js:

import React, { Component } from 'react';

import Products from './components/Products';

import Filter from './components/Filter';

import Basket from './components/Basket';

import './App.css';

class App extends Component {

constructor() {

super();

this.state = { size: '', sort: '', cartItems: [], products: [], filteredProducts: [] };

}

componentWillMount() {

if (localStorage.getItem('cartItems')) {

this.setState({ cartItems: JSON.parse(localStorage.getItem('cartItems')) });

}

fetch('http://localhost:8000/products').then(res => res.json())

.catch(err => fetch('db.json').then(res => res.json()).then(data => data.products))

.then(data => {

this.setState({ products: data });

this.listProducts();

});

}

handleRemoveFromCart = (e, product) => {

this.setState(state => {

const cartItems = state.cartItems.filter(a => a.id !== product.id);

localStorage.setItem('cartItems', JSON.stringify(cartItems));

return { cartItems: cartItems };

})

}

handleAddToCart = (e, product) => {

this.setState(state => {

const cartItems = state.cartItems;

let productAlreadyInCart = false;

cartItems.forEach(cp => {

if (cp.id === product.id) {

cp.count += 1;

productAlreadyInCart = true;

}

});

if (!productAlreadyInCart) {

cartItems.push({ ...product, count: 1 });

}

localStorage.setItem('cartItems', JSON.stringify(cartItems));

return { cartItems: cartItems };

});

}

listProducts = () => {

this.setState(state => {

if (state.sort !== '') {

state.products.sort((a, b) =>

(state.sort === 'lowestprice'

? ((a.price > b.price) ? 1 : -1)

: ((a.price < b.price) ? 1 : -1)));

} else {

state.products.sort((a, b) => (a.id > b.id) ? 1 : -1);

}

if (state.size !== '') {

return { filteredProducts: state.products.filter(a => a.availableSizes.indexOf(state.size.toUpperCase()) >= 0) };

}

return { filteredProducts: state.products };

})

}

handleSortChange = (e) => {

this.setState({ sort: e.target.value });

this.listProducts();

}

handleSizeChange = (e) => {

this.setState({ size: e.target.value });

this.listProducts();

}

render() {

return (

<div className="container">

<h1>E-commerce Shopping Cart Application</h1>

<hr />

<div className="row">

<div className="col-md-9">

<Filter count={this.state.filteredProducts.length} handleSortChange={this.handleSortChange}

handleSizeChange={this.handleSizeChange} />

<hr />

<Products products={this.state.filteredProducts} handleAddToCart={this.handleAddToCart} />

</div>

<div className="col-md-3">

<Basket cartItems={this.state.cartItems} handleRemoveFromCart={this.handleRemoveFromCart} />

</div>

</div>

</div>

);

}

}

export default App;

Index.js:

import React from 'react';

import ReactDOM from 'react-dom';

import './index.css';

import App from './App';

import \* as serviceWorker from './serviceWorker';

ReactDOM.render(<App />, document.getElementById('root'));

// If you want your app to work offline and load faster, you can change

// unregister() to register() below. Note this comes with some pitfalls.

// Learn more about service workers: https://bit.ly/CRA-PWA

serviceWorker.unregister();

App.css:

.App {

text-align: center;

}

.App-logo {

animation: App-logo-spin infinite 20s linear;

height: 40vmin;

pointer-events: none;

}

.App-header {

background-color: #282c34;

min-height: 100vh;

display: flex;

flex-direction: column;

align-items: center;

justify-content: center;

font-size: calc(10px + 2vmin);

color: white;

}

.App-link {

color: #61dafb;

}

@keyframes App-logo-spin {

from {

transform: rotate(0deg);

}

to {

transform: rotate(360deg);

}

}

Products.js:

import React, { Component } from 'react';

import util from '../util'

export default class Products extends Component {

render() {

const productItems = this.props.products.map(product => (

<div className="col-md-4" key={product.id}>

<div className="thumbnail text-center">

<a href={`#${product.id}`}onClick={(e)=>this.props.handleAddToCart(e, product)}>

<img src={`products/${product.sku}\_2.jpg`} alt={product.title} />

<p>{product.title}</p>

</a>

<b>{util.formatCurrency(product.price)}</b>

<button className="btn btn-primary" onClick={(e)=>this.props.handleAddToCart(e, product)}>Add to cart</button>

</div>

</div>

));

return (

<div className="row">

{productItems}

</div>

)

}

}

Filter.js:

import React, { Component } from 'react';

export default class Products extends Component {

render() {

return (

<div className="row">

<div className="col-md-4">

{`${this.props.count} products found.`}

</div>

<div className="col-md-4">

<label>Order by

<select className="form-control" value={this.props.sort} onChange={this.props.handleSortChange}>

<option value="">Select</option>

<option value="lowestprice">Lowest to highest</option>

<option value="highestprice">Highest to lowest</option>

</select>

</label>

</div>

<div className="col-md-4">

<label > Filter Size

<select className="form-control" value={this.props.size} onChange={this.props.handleSizeChange}>

<option value="">ALL</option>

<option value="x">XS</option>

<option value="s">S</option>

<option value="m">M</option>

<option value="l">L</option>

<option value="xl">XL</option>

<option value="xxl">XXL</option>

</select>

</label>

</div>

</div>

)

}

}

Basket.js:

import React, { Component } from 'react';

import util from '../util'

export default class Basket extends Component {

render() {

const { cartItems } = this.props;

return (

<div className="alert alert-info">

{cartItems.length === 0

? "Basket is empty" :

<div>You have {cartItems.length} items in the basket. <hr /></div>

}

{cartItems.length > 0 &&

<div>

<ul style={{ marginLeft: -25 }}>

{cartItems.map(item => (

<li key={item.id}>

<b>{item.title}</b>

<button style={{ float: 'right' }} className="btn btn-danger btn-xs"

onClick={(e) => this.props.handleRemoveFromCart(e, item)}>X</button>

<br />

{item.count} X {util.formatCurrency(item.price)}

</li>))

}

</ul>

<b>Sum: {util.formatCurrency(cartItems.reduce((a, c) => (a + c.price \* c.count), 0))}

</b>

<button onClick={() => alert('Todo: Implement checkout page.')} className="btn btn-primary">checkout</button>

</div>

}

</div>

)

}

}

Index.html:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8" />

<link rel="shortcut icon" href="%PUBLIC\_URL%/favicon.ico" />

<meta

name="viewport"

content="width=device-width, initial-scale=1, shrink-to-fit=no"

/>

<meta name="theme-color" content="#000000" />

<link rel="manifest" href="%PUBLIC\_URL%/manifest.json" />

<link rel="stylesheet" href="https://bootswatch.com/3/superhero/bootstrap.min.css">

<title>React App</title>

</head>

<body>

<noscript>You need to enable JavaScript to run this app.</noscript>

<div id="root"></div>

</body>

</html>