**CS-213: Advanced Programming**

**Class: BSCS 7A**

**Date: 14 November, 2019**

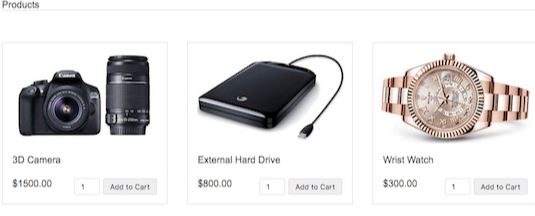
# Lab 09: React JS

**Submitted By: Sarah Tayyab (212902)**

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| Solution |
| Task Code:  Index.html  <h1>Shopping Cart</h1>  {if #cart.updateForm.errors}  <ul class="errors">  {loop items="#cart.updateForm.errors" value="error"}  <li>{#error.message}</li>  {/loop}  </ul>  {/if}  {#cart.updateForm.tag.open}  <a href="{#cart.urls.continueShopping}" class="continue-shopping">Continue Shopping</a>  <a href="{#cart.urls.checkout}" class="checkout-button">Checkout</a>  <table cellspacing="0" class="shopping-cart">  <thead>  <tr class="headings">  <th class="link">&nbsp;</td>  <th class="product">Item</td>  <th class="price">Price</td>  <th class="quantity">Quantity</td>  <th class="price">Total</td>  </tr>  </thead>  <tbody>  {loop items="#cart.products" value="product"}  <tr>  <td class="link"><label>{#product.fields.remove.tag} remove</label></td>  <td class="product">  <div class="product-img"><a href="{#product.url}">{#product.primaryImages.thumb.tag}</a></div>  <div class="product-name">  <a href="{#product.url}">{#product.productName}</a>  {loop items="#product.options" value="option"}  <br />{#option.label}: {#option.value}  {/loop}  </div>  </td>  <td class="price">  {#product.currentPrice.value}{if #product.pricePerUnit exists && #product.pricePerUnit != "None"} / {#product.pricePerUnit}{/if}  </td>  <td class="quantity">  {#product.fields.quantity.tag}{#product.fields.partialQuantity.tag}  </td>  <td class="price">{#product.totalPrice.value}</td>  </tr>  {/loop}  {if #cart.coupons}  <tr>  <td class="quantity-span" colspan="4">Subtotal</td>  <td class="price">{#cart.cartTotalBeforeDiscounts.value}</td>  </tr>  {loop items="#cart.coupons" value="coupon"}  <tr>  <td class="quantity-span" colspan="4">{#coupon.name} ({#coupon.code})</td>  <td class="price">-{#coupon.savingsValue}</td>  </tr>  {/loop}  {/if}    <tr class="totals">  <td colspan="2"><input type="submit" name="submit" value="Update cart" /></td>  <td class="quantity-span" colspan="2">Total</td>  <td class="price">{#cart.cartTotal.value}</td>  </tr>  </tbody>  </table>  {#cart.updateForm.tag.close}  {#cart.updateForm.tag.open}  <div class="coupon">  Have a coupon? {#cart.updateForm.fields.coupon.tag} <input type="submit" value="Apply" />  </div>  {#cart.updateForm.tag.close}  <div style="clear: both;"></div>  <a href="{#cart.urls.continueShopping}" class="continue-shopping">Continue Shopping</a>  <a href="{#cart.urls.checkout}" class="checkout-button">Checkout</a>  Index.css  .shopping-cart {width: 100%; border-top: 1px solid #C3C3C3; border-right: 1px solid #C3C3C3; clear: both;}  .shopping-cart th {background: #F0F0F0;}  .shopping-cart th, .shopping-cart td {border-bottom: 1px solid #C3C3C3; border-left: 1px solid #C3C3C3; padding: 3px;}  .shopping-cart .link {font-size: 90%; white-space: nowrap;}  .shopping-cart .product {width: 55%}  .shopping-cart .price {width: 5%;}  .shopping-cart .quantity {width: 15%;}  .shopping-cart .quantity input {width: 30px;}  .shopping-cart .price {width: 20%;}  .shopping-cart .product-img {border: 1px solid #ccc; background-color: #e9e9e9; padding: 3px; width: 80px; height: 80px; float: left;}  .shopping-cart .product-img img {max-width:80px;max-height:80px;width:auto;height:auto;}  .shopping-cart .product-name {margin-left: 100px;}  .shopping-cart tr.totals {font-weight: bold;}  .shopping-cart tr.totals a {font-weight: normal;}  .shopping-cart .quantity-span {text-align: right;}  .coupon {margin:20px 0 0;text-align:right;}  .continue-shopping {float:left;margin:20px 0;}  .checkout-button {float: right; margin: 20px 0; font-weight: bold;}  Index.js:  import React, { Component } from "react";  import ReactDOM from "react-dom";  import { Router,  Route,IndexRoute,  IndexLink,  hashHistory,  Link  } from "react-router";  import './index.css';  export class App extends React.Component{  render(){  return (  <div>  <div className="content">  {this.props.children}  </div>  </div>  )  }  };  var destination = document.querySelector("#container");  var products = [  {  id: 0,  name: '3D Camera',  price: $ 1500.00,  img: 'img.png',  }, {  id: 1,  name: 'External Hard Drive',  price: $800.00,  img: 'img2.png',  }, {  id: 2,  name: 'Wrist Watch',  price: $300.00,  img: 'img3.png',  },  ];  var cart = [];  cart.totalcart = 0;  /\*var { Router,  Route,  IndexRoute,  IndexLink,  hashHistory,  Link } = ReactRouter;\*/  export class BackButton extends React.Component{  render() {  return (<Link to="#" onClick={hashHistory.goBack} className="backButton">  <i className="fa fa-arrow-left" aria-hidden="true"></i>  </Link>);  }  };  export class CartButton extends React.Component{  render() {  return (<div > <h4 className="cartButto"> View cart </h4><br/><Link to="/cart" className="cartButton">  <i className="fa fa-shopping-cart" aria-hidden="true"></i>  </Link></div>);  }  };  export default class Home extends React.Component{  constructor(props) {  super(props);  this.state = {  item: this.getProducts()  };  this.getProducts = this.getProducts.bind(this);  this.addToCart = this.addToCart.bind(this);  }  getProducts() {  return products;  }    addToCart(item) {  var isInCart = false;  cart = cart.map((cartItem) => {  if (cartItem.id == item.id) {  isInCart = true;  cartItem.count++;  }  return cartItem;  });  if (!isInCart) { cart.push({id: item.id, name: item.name, price: item.price, count: 1}) };  cart.forEach(function(item,i){  if(i===0)cart.totalcart = 0;  cart.totalcart += item.price \* item.count;  });  }  render() {  var addin = this.addToCart;  return (  <div>  <header>  <h1 style={{fontSize: "40px"}}>Shop Online</h1>  <CartButton />  </header>  <div className="store">  {this.state.item.map(function(item){  return <ProductsList produto={item} addToCart={addin} key={item.id} />  })}  </div>  </div>  );  }  };  export class ProductsList extends React.Component{  constructor(props) {  super(props);  this.addToCart = this.addToCart.bind(this);  }  addToCart(){  this.props.addToCart(this.props.produto);  }  render() {  var prod = this.props.produto;  return ( <div className={'prod prod-' + prod.id}>  <div className="name">  {prod.name}  </div>  <div className="prod-content">  <div className="photo">  <img src={prod.img} alt={prod.name} />  </div>  <div className="description">  {prod.description.substring(0,50) + '...'}  </div>  <div className="price">  R$ {prod.price.toFixed(2)}  </div>  </div>  <button onClick={this.addToCart}>Add to cart</button>  </div>  )  }  };  export class Cart extends React.Component{  constructor(props) {  super(props);  this.removeFromCart = this.removeFromCart.bind(this);  }  removeFromCart(item) {  cart = cart.filter(function (e) {  return e.id !== item.id;  });  cart.forEach(function(item,i){  if(i===0) cart.totalcart = 0;  cart.totalcart += item.price \* item.count;  });  var lineRemove = document.querySelector('.tableRow.prod-' + item.id);  lineRemove.parentNode.removeChild( lineRemove );  var totalField = document.querySelector(".tableCell.valorfinal");  totalField.innerHTML = cart.totalcart ? "R$ "+cart.totalcart.toFixed(2) : "R$ 0,00 ";  }  render() {  var removeItem = this.removeFromCart;  return (  <div>  <header>  <BackButton />  <h2 align="center">Your cart</h2>  </header>  <div className="store cart">  <h3 align="center">Items in cart</h3>  <div className="cartTable">  <div className="table minimalistBlack">  <div className="tableHeading">  <div className="tableRow">  <div className="tableHead descricao">Items</div>  <div className="tableHead quantidade">Quantity</div>  <div className="tableHead subtotal">Subtotal</div>  <div className="tableHead remover">&nbsp;</div>  </div>  </div>  <div className="tableBody">  {cart.map(function(item){  return <CartList produto={item} removeFromCart={removeItem} key={item.id} />  })}  </div>  <div className="tableFoot tableFootStyle">  <div className="tableRow">  <div className="tableCell total"><b>Total</b></div>  <div className="tableCell noleftborder">&nbsp;</div>  <div className="tableCell valorfinal">R$ {cart.totalcart.toFixed(2)}</div>  <div className="tableCell">&nbsp;</div>  </div>  </div>  </div>  </div>  </div>  </div>  );  }  };    export class CartList extends React.Component{  constructor(props) {  super(props);  this.removeFromCart = this.removeFromCart.bind(this);  }  removeFromCart(){  this.props.removeFromCart(this.props.produto);  }  render() {  var prod = this.props.produto;  return (  <div className={'tableRow prod-' + prod.id}>  <div className="tableCell">  {prod.name}  </div>  <div className="tableCell">  {prod.count}  </div>  <div className="tableCell">  R$ {(prod.price \* prod.count).toFixed(2)}  </div>  <div className="tableCell">  <button onClick={this.removeFromCart}>X</button>  </div>  </div>  );  }  };  ReactDOM.render(  <Router history={hashHistory}>  <Route path="/" component={App}>  <IndexRoute component={Home}/>  <Route path="/cart" component={Cart} />  </Route>  </Router>,  destination  ); |

**Task Output Screenshots:**

Shop window:



Cart window:

