# Department of Computing

**CS-213: Advanced Programming**

**Class: BSCS 7AB**

# Lab 09: React JS

**Date: 14 November, 2019**

**Time: 10:00-01:00pm & 02:00-05:00pm**

# Instructor: Dr. Sidra Sultana

**Lab Engineer: Ms. Ayesha Asif**

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# Lab 09: React JS

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**Class: CS-7A**

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| Solution |
| Task Code:  Index.html  <div id="app" class="container"></div>  Index.css:  html, body {  padding: 30px 0;  font-size: 15px;  background:lightgreen;  font-family:TimesNewRoman;  }  .btn {  cursor: pointer;  color: white;  background-color:green;  border:none;    }  .btn-toolbar .btn:nth-child(n+2) {  margin-left: 10px;  }  Index.js:  import React,{Component} from 'react';  import ReactDOM from 'react-dom';  //list  let productsList = [  { name: "Apples", price: 2, info: "product of fruits" },  { name: "Bananas", price: 3, info: "product of fruits" },  { name: "Nail Colour", price: 12, info: "Fashion Product" },  { name: "Android-Mobile", price: 231, info: "product of google" },  { name: "iPhone X", price: 784, info: "product of apple" },  { name: "Windows Surface Laptop", price: 1056, info: "product of microsoft" }  ];  class Products extends React.Component {  constructor(props) {  super(props);  this.state = {  quantity: 0  };  this.addToCart = this.addToCart.bind(this);  this.subFromCart = this.subFromCart.bind(this);  this.displayDetails = this.displayDetails.bind(this);  }  displayDetails() {  this.props.handleShow(this.props.info);  }  subFromCart() {  this.setState({  quantity: this.state.quantity - 1  });  this.props.handleTotal(-this.props.price);  }  addToCart() {  this.setState({  quantity: this.state.quantity + 1  });  this.props.handleTotal(this.props.price);  }    render() {  return (  <div>  <div className="row form-group">  <div className="col-sm-10">  <h4>{this.props.name}: ${this.props.price}</h4>  </div>  <div className="col-sm-2 text-right">qty: {this.state.quantity}</div>  </div>  <div className="row btn-toolbar">  <div className="col-6">  <button className="btn btn-outline-primary" onClick={this.displayDetails}>  show info  </button>  </div>  <div className="col-6 text-right">  <button className="btn btn-outline-primary" onClick={this.addToCart}>  +1  </button>  <button className="btn btn-outline-primary" onClick={this.subFromCart} disabled={this.state.qty < 1}>  -1  </button>  </div>  </div>  <hr />  </div>  );  }  }  class ProductList extends React.Component {  constructor(props) {  super(props);  this.state = {  total: 0,  productList: ""  };  this.Creation = this.Creation.bind(this);  this.totalPrice = this.totalPrice.bind(this);  this.displayProduct = this.displayProduct.bind(this);  }  displayProduct(info) {  console.log(info);  alert(info);  }  Creation(product) {  this.setState({  products: this.state.productList.push(product)  });  }  totalPrice(price) {  this.setState({  total: this.state.total + price  });  console.log(this.state.total);  }  Mounting() {  setTimeout(() => {  this.setState({ productList: productList });  }, 1000);  }    render() {  if (!this.state.productList) return <p>Wait for the page to load</p>;  var proOBJ = this;  var products = this.state.productList.map(function(product) {  return (  <Product  name={product.name}  price={product.price}  info={product.info}  handleShow={proOBJ.displayProduct}  handleTotal={proOBJ.totalPrice}  />  );  });  return (  <div>  <ProductForm handleProduct={this.Creation} />  {products}  <Total total={this.state.total} />  </div>  );  }  }  class TotalCal extends React.Component {  constructor(props) {  super(props);  }  render() {  let price = this.props.price.toFixed(2);  let tCal = this.props.price \* 0.15;  let incomeCal = +price + +tCal;  return (  <div style={{"marginTop": "30px", "backgroundColor":"#F6F6F6","padding": "10px"}}>  <h3 className="row" style={{ fontWeight: 300 }}>  <span className="col-6">YOUR CART</span>  <span className="col-6 text-right">${price}</span>  </h3>  <h3 className="row" style={{ fontWeight: 300 }}>  <span className="col-6">Tax (15%):</span>  <span className="col-6 text-right">${tCal}</span>  </h3>  <h3 className="row" style={{ fontWeight: 300 }}>  <span className="col-6"> {props.name}</span>  <span className="col-6 text-right">${tCal}</span>  </h3>  <h3 className="row" style={{ fontWeight: 300 }}>  <span className="col-6"> {props.name}</span>  <span className="col-6 text-right">${tCal}</span>  </h3>  <h3 className="row" style={mystyle}>  <span className="col-6">Total inc. tax:</span>  <span className="col-6 text-right">${incomeCal}</span>  </h3>  </div>  );  }  }  ReactDOM.render(<ProductList />, document.getElementById("app"));  Task Output Screenshot: |