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Abstract

Introduction to React.JS

AdvanceD programming LAB 09

NODE JS

BSCS 7B

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| Task Code:  App.js  import React, { Component } from 'react'  import ShoppingList from './components/ShoppingList'  class App extends Component {    render() {      return (        <div>          <ShoppingList />        </div>      )    }  }  export default App  ShoppingList.jsimport React, { Component } from 'react'  import Heading from './Heading'  export class ShoppingList extends Component {      constructor(props) {          super(props)            this.state = {              id:0,              name:'',              brand:'',              price:0,              products: [],              sort:false          }      }      addProduct = (event) => {      }      changeName = (event) => {          this.setState({              name:event.target.value          })      }      changeBrand = (event) => {          this.setState({              brand:event.target.value          })      }      changePrice = (event) => {          this.setState({              price:event.target.value          })      }      addProduct = (event) => {          event.preventDefault();          var product = {              id:this.state.id,              name:this.state.name,              brand:this.state.brand,              price:this.state.price          }          console.log(product)          this.setState({              id:this.state.id + 1,              products:this.state.products.concat(product)          },          () => {              console.log(this.state.products)              this.setState({                  id:this.state.id,                  name:'',                  brand:'',                  price:0              })          })      }      buyProduct(value){          var list = this.state.products          var removed = list.splice(value, 1)          console.log(list)          this.setState({              products:list          })      }      sortByPriceLH = event => {          var myData = [].concat(this.state.products).sort((a, b) => Number(a.price) > Number(b.price))          this.setState({              products:myData          })      }      sortByPriceHL = event => {          var myData = [].concat(this.state.products).sort((a, b) => Number(a.price) < Number(b.price))          this.setState({              products:myData          })      }      render() {          return (              <div>                  <Heading/>                  {/\* {<TableHeader />} \*/}                  <button onClick={this.sortByPriceLH}>Sort By Price (Low to High)</button>                  <button onClick={this.sortByPriceHL}>Sort By Price (High to Low)</button>                  <table>                      <tr>                          <th>ID</th>                          <th>Name</th>                          <th>Brand</th>                          <th>Price</th>                          <th>Action</th>                      </tr>                      {                      this.state.products.map((product, index) => <tr key={product.id}><td>{product.id}</td><td>{product.name}</td><td>{product.brand}</td><td>{product.price}</td><td><button value={index} type='submit' onClick={() => this.buyProduct(index)}>Buy</button></td></tr>)                      }                  </table>                  <form onSubmit={this.addProduct}>                      <label>id</label>                      <input value={this.state.id} name='id' type='number' />                      <label>name</label>                      <input value={this.state.name} onChange={this.changeName} name='name' type='text' />                      <label>brand</label>                      <input value={this.state.brand} onChange={this.changeBrand} name='brand' type='text' />                      <label>price</label>                      <input value={this.state.price} onChange={this.changePrice} name='price' type='number' />                      <button type='submit'>Add Product</button>                  </form>              </div>          )      }  }  export default ShoppingList  Heading.js  import React from 'react'  function Heading() {      return (          <div>              <h1>Shopping List</h1>          </div>      )  }  export default Heading  TableHeader.js  import React from 'react'  function TableHeader() {      return (          <div>          </div>      )  }  export default TableHeader |

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| Task Output Screenshot:  High to Low Sort    Low to High Sort     INITIAL    AFTER ADDING SOME ITEMS    AFTER BUYING “The Laptop”    AFTER ADDING SOME MORE ITEM WITH IN ORDER TO CHECK SORTING WITH PRICE |
| AFTER SORTING WITH PRICE |