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	Date: 16-11-2023	Unit 3 Assignment Exercise
<u>PROBLEM STATEMENT-1 (for odd number SRNs):</u>		
<p>Create and display an order detail list for any 3 items which will include the product name, product description, price and quantity. When an onClick event is triggered on a button the quantity has to increase and the total cost along with Order date and Expected delivery Date, has to be calculated and displayed with the update of items quantity.</p> <p>For styling: Add styling by creating a style object variable the same way as we create a JavaScript.</p> <p>The product details should be read from an array of objects.</p>		
<u>OBJECTIVE</u>		
<p>The objective of this exercise is to test the student on front end frame work React JS. It evaluates the student's knowledge React Js components, ReactJS props and state, ReactJS Lists and Keys, React JS events</p>		
<u>PREREQUISITE</u>		
<p>In order to complete this exercise, the student needs to understand the fundamentals of HTML,CSS, and JavaScript</p>		
<u>SAMPLE SCREENSHOT OF OUTPUT (Just for your reference)</u>		

SAMPLE1:

Order Summary

MAC book

Description: Apple MGN63HNA MacBook Air (Apple M1 Chip/8GB/256GB SSD/macOS Big Sur/Retina) INR

Price: 90000 INR

Quantity: 0



Dell core i7

Description: 11th Generation Intel® Core™ i7-11390H Processor Windows 11 Home INR

Price: 80000 INR

Quantity: 0



HP

Description: 11th generation INR

Price: 65000 INR

Quantity: 0



Total: 0 INR

Order Date: 05/10/2022 (Note - Current date in dd/mm/yyyy)

Expected Delivery Date: 08/10/2022 (Note - Current Date + 3 days)

PROGRAM

```
import React, {Component} from 'react';
import './App.css';

class App extends Component{
  constructor(){
    super();
    this.state={
      orderItems:[
        {
          id:1,
          name: 'MAC book',
          description: 'Apple MGN63HNA MacBook Air INR',
          price: 125000,
          quantity: 0,
        },
        {
          id: 2,
          name: 'Dell core i7',
          description: 'Processor Windows 11 Home INR',
          price: 80900,
          quantity: 0,
        },
        {
          id:3,
          name:'HP',
          description: '11 Generation Processor INR',
          price: 65000,
          quantity: 0,
        },
      ],
    }
  }
}
```

```

    };
  }

  handleQuantityChange = (id, increment) => {
    const updatedOrderItems = this.state.orderItems.map((item) => {
      if (item.id === id) {
        item.quantity += increment;
      }
      return item;
    });
    this.setState({
      orderItems: updatedOrderItems,
    });
  };

  calculateTotalCost = () => {
    let total = 0;
    this.state.orderItems.forEach((item) => {
      total += item.price * item.quantity;
    });
    return total;
  };

  getCurrentDate = () => {
    const today = new Date();
    const dd = String(today.getDate()).padStart(2, '0');
    const mm = String(today.getMonth() + 1).padStart(2, '0');
    const yyyy = today.getFullYear();
    return `${dd}/${mm}/${yyyy}`;
  };

  getExpectedDeliveryDate = () => {
    const today = new Date();
    today.setDate(today.getDate() + 3);
    const dd = String(today.getDate()).padStart(2, '0');
    const mm = String(today.getMonth() + 1).padStart(2, '0');
    const yyyy = today.getFullYear();
    return `${dd}/${mm}/${yyyy}`;
  };

  render(){const styles = {
    item: {
      border: '1px solid #ccc',
      padding: '10px',
      margin: '10px',
    },
  };

```

```

    return (
      <div>
        <div id="order-summary" style={styles}>
          <h1>Order Summary</h1>
          <div className="order-items">
            {this.state.orderItems.map((item) => (
              <div key={item.id} style={styles.item}
className="order-item">
                <div>
                  <strong>{item.name}</strong>
                </div>
                <div>
                  Description: <br />
                  <div
className="description">{item.description}</div>
                </div>
                <div>Price: {item.price} INR</div>
                <div>
                  Quantity: {item.quantity}<br/>
                  <button
                    className="increment-button"
                    onClick={() =>
this.handleQuantityChange(item.id, 1)}
                  >
                    +
                  </button>
                </div>
              </div>
            ))}
          </div>
          <div className="total-cost">
            <strong>Total: {this.calculateTotalCost()} INR</strong>
          </div>
        </div>
        <div>
          Order Date: {this.getCurrentDate()}
        </div>
        <div>
          Expected Delivery Date: {this.getExpectedDeliveryDate()}
        </div>
      </div>
    );
  }
}

export default App;

```

```
#order-summary {
  display: flex;
  flex-direction: column;
  background-color: rgb(11, 182, 239);
  margin: 20px;
  padding: 20px;
  border: 1px solid black;
}
.order-item {
  border: 1px solid black;
  padding: 10px;
  margin: 10px;
  background-color: rgb(11, 182, 239);
  display: inline-block;
  margin-right: 10px;
}
.increment-button {
  background-color: white;
  color: black;
  border: none;
  border-radius: 4px;
  cursor: pointer;
}
.total-cost {
  font-weight: bold;
  margin-top: 10px;
}
```

SCREENSHOT OF YOUR OUTPUT

Order Summary

MAC book

Description:
Apple MGN63HNA MacBook Air INR
Price: 125000 INR
Quantity: 0



Dell core i7

Description:
Processor Windows 11 Home INR
Price: 80900 INR
Quantity: 0



HP

Description:
11th Generation Processor INR
Price: 65000 INR
Quantity: 0



Total: 0 INR

Order Date: 16/11/2023
Expected Delivery Date: 19/11/2023