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WEB TECH LAB - 08

Q1.

```
import React, { useState } from "react";
const CurrencyConverter = () => {
const can encyconverter = () => {
  const [amount, setAmount] = useState("");
  const [fromCurrency, setFromCurrency] = useState("INR");
  const [toCurrency, setToCurrency] = useState("USD");
  const exchangeRateINRtoUSD = 0.012;
 const exchangeRateUSDtoINR = 82.91;
 setAmount(event.target.value);
};
 const handleAmountChange = (event) => {
 setFromCurrency(event.target.value);
};
  const handleFromCurrencyChange = (event) => {
  const handleToCurrencyChange = (event) => {
   setToCurrency(event.target.value);
 const convertCurrency = () => {
  if (fromCurrency === "INR" && toCurrency === "USD") {
    return (amount * exchangeRateINRtoUSD).toFixed(3);
} else if (fromCurrency === "USD" && toCurrency === "INR") {
    return (amount * exchangeRateUSDtoINR).toFixed(3);
```

Currency Converter

Amount:
From Currency; INR
To Currency; USD
Converted Amount: 0.000 USD

Currency Converter

Amount To Currency USD To Current Amount: 0.012 USD

Currency Converter

Amount 1
From Currency USD >
To Currency INR >
Converted Amount: 82.910 INR

Currency Converter

Amount 10

From Currency; USD >

To Currency; INR >

Converted Amount: 829.100 INR

```
import React, { useState, useEffect } from "react";
 const Stopwatch = () => {
  const [time, setTime] = useState(0);
   const [isRunning, setIsRunning] = useState(false);
   useEffect(() => {
     if (isRunning) {
       intervalId = setInterval(() => {
   setTime((prevTime) => prevTime + 1);
     }, 1000);
} else {
    clse {
  clearInterval(intervalId);
}
     return () => clearInterval(intervalId);
   const startStopwatch = () => {
    setIsRunning(true);
   const pauseStopwatch = () => {
    setIsRunning(false);
   const resetStopwatch = () => {
    setIsRunning(false);
     setTime(0);
   const formatTime = (seconds) => {
    const hours = Math.floor(seconds / 3600);
     const minutes = Math.floor((seconds % 3600) / 60);
     const remainingSeconds = seconds % 60;
     return `${hours.toString().padStart(2, "0")}:${minutes
       .toString()
       .padStart(2, "0")}:${remainingSeconds.toString().padStart(2, "0")}`;
    <div className="flex">
       <div className="head">
        <h1>Stopwatch</h1>
       <div className="watch">
        {formatTime(time)}
       <div className="time">
         {!isRunning ? (
           <button onClick={startStopwatch}>Start</button>
           <button onClick={pauseStopwatch}>Pause</button>
         <button onClick={resetStopwatch}>Reset</button>
export default Stopwatch;
```

Stopwatch

00:00:00

Start Reset

Stopwatch

00:00:05

Pause Reset

Stopwatch

00:00:00

Start Reset

```
import React, { useState } from "react";
const MessagingApp = () => {
   const [conversations, setConversations] = useState([
   { id: 1, name: "Family", messages: [] }, { id: 2, name: "Friends", messages: [] },
  const [selectedConversation, setSelectedConversation] = useState(null);
  const [newMessage, setNewMessage] = useState("");
  const handleConversationClick = (conversationId) => {
   setSelectedConversation(conversationId);
 const handleSendMessage = () => {
  if (newMessage.trim() !== "" && selectedConversation) {
    setConversations([prevConversations]) =>
       prevConversations.map((conversation) =>
        conversation.id === selectedConversation
                 ...conversation,
               messages: [
                   text: newMessage,
timestamp: new Date().toLocaleTimeString(),
                   ...conversation.messages,
             : conversation
      setNewMessage("");
    <h1>Messaging App</h1>
    <div style={{ display: "flex" }}>
        style={{ flex: "1", borderRight: "1px solid ■#ccc", padding: "10px" }}
         <h2>Conversations</h2>
           {conversations.map((conversation) => (
               key={conversation.id}
               onClick={() => handleConversationClick(conversation.id)}
              {conversation.name}
       {/* Chat Interface */}
      <div style={{ flex: "3", padding: "10px" }}>
{selectedConversation && (
              <h2>{`Chat with ${
                conversations.find((conv) => conv.id === selectedConversation)
                  .name
                style={{
```

```
overflowY: "auto",
border: "1px solid ■#ccc",
padding: "10px",
                  .find((conv) => conv.id === selectedConversation)
                    .messages.map((message, index) => (
                       key={index}
                       style={{
                         borderBottom: "1px solid ■#eee", paddingBottom: "5px",
                     <strong>{message.timestamp}</strong>: {message.text}
               <textarea
                 rows="3"
                 value={newMessage}
                 onChange={(e) => setNewMessage(e.target.value)}
               <button onClick={handleSendMessage}>Send</button>
export default MessagingApp;
```

Messaging App

Conversations

- FamilyFriends

Messaging App

Conversations

- Family Friends

Chat with Family		
Hello guys		
l	Send	

Messaging App

Conversations

- Family
 Friends

Chat with Family



Messaging App

Conversations

- Family Friends

Chat with Family				
	5:47:15 PM: How are you?			
	5:47:01 PM: Hello guys			

Messaging App

Conversations

- FamilyFriends

Chat with Friends

