## WEB Technology assignment Shubh Raheja 22cs2031

```
Q1.
// App.js
import React, { useState } from 'react';
import './App.css';
function App() {
 const [amount, setAmount] = useState('');
 const [fromCurrency, setFromCurrency] = useState('USD');
 const [toCurrency, setToCurrency] = useState('EUR');
 const [convertedAmount, setConvertedAmount] = useState('');
 // Hard-coded exchange rate
```

```
const handleAmountChange = (e) => {
 setAmount(e.target.value);
const handleFromCurrencyChange = (e) => {
 setFromCurrency(e.target.value);
const handleToCurrencyChange = (e) => {
 setToCurrency(e.target.value);
const convertCurrency = () => {
  setConvertedAmount(converted.toFixed(2));
return (
 <div className="App">
    <div className="converter">
       type="number"
```

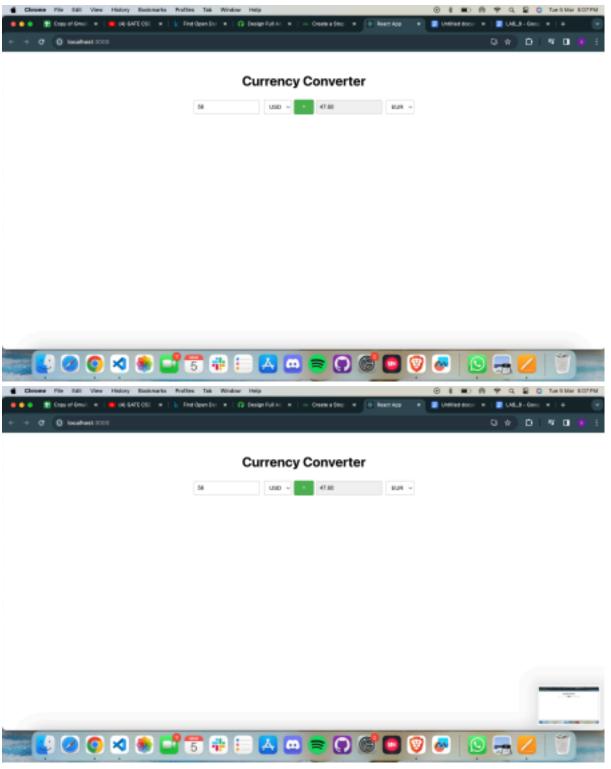
```
placeholder="Enter amount"
         {Object.keys(exchangeRate).map((currency) => (
        type="text"
        placeholder="Converted amount"
         {Object.keys(exchangeRate[fromCurrency]).map((currency) =>
export default App;
```

```
/* App.css */
input[type='number'],
input[type='text'],
select {
border: 1px solid #ccc;
button {
background-color: #4caf50;
```

```
button:hover {
background-color: #45a049;
input[type='number']::-webkit-inner-spin-button {
input[type='number'] {
input[readonly] {
background-color: #f0f0f0;
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                                   Currency Converter
```

## **Currency Converter**



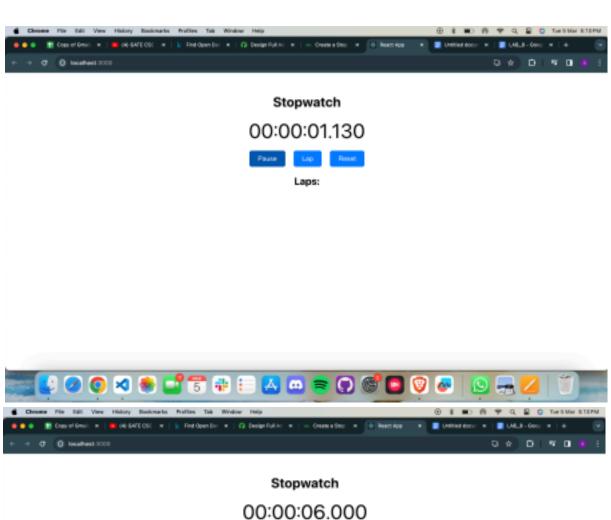


```
// App.js
import React, { useState, useEffect } from 'react';
import './App.css';
function App() {
 const [time, setTime] = useState(0);
const [isRunning, setIsRunning] = useState(false);
 const [laps, setLaps] = useState([]);
   if (isRunning) {
       setTime(prevTime => prevTime + 10); // Increment by 10
     milliseconds }, 10);
   } else {
     clearInterval(intervalId);
   return () => clearInterval(intervalId);
 const handleStartPause = () => {
   setIsRunning(prevIsRunning => !prevIsRunning);
 const handleReset = () => {
  setIsRunning(false);
  setLaps([]);
```

```
setLaps (prevLaps => [...prevLaps, time]);
const formatTime = timeInMilliseconds => {
  const seconds = Math.floor(timeInMilliseconds / 1000) % 60;
  const minutes = Math.floor(timeInMilliseconds / (1000 * 60)) %
  60; const hours = Math.floor(timeInMilliseconds / (1000 * 60 *
  const formattedHours = String(hours).padStart(2, '0');
  const formattedMinutes = String(minutes).padStart(2, '0');
  const formattedSeconds = String(seconds).padStart(2, '0');
  const formattedMilliseconds = String(milliseconds).padStart(3, '0');
return (
 <div className="App">
    <div className="time">{formatTime(time)}</div>
    <div className="buttons">
      <button onClick={handleStartPause}>{isRunning ? 'Pause' :
    <div className="laps">
```

```
{laps.map((lap, index) => (
       {formatTime(lap)}
export default App;
/* App.css */
button {
```

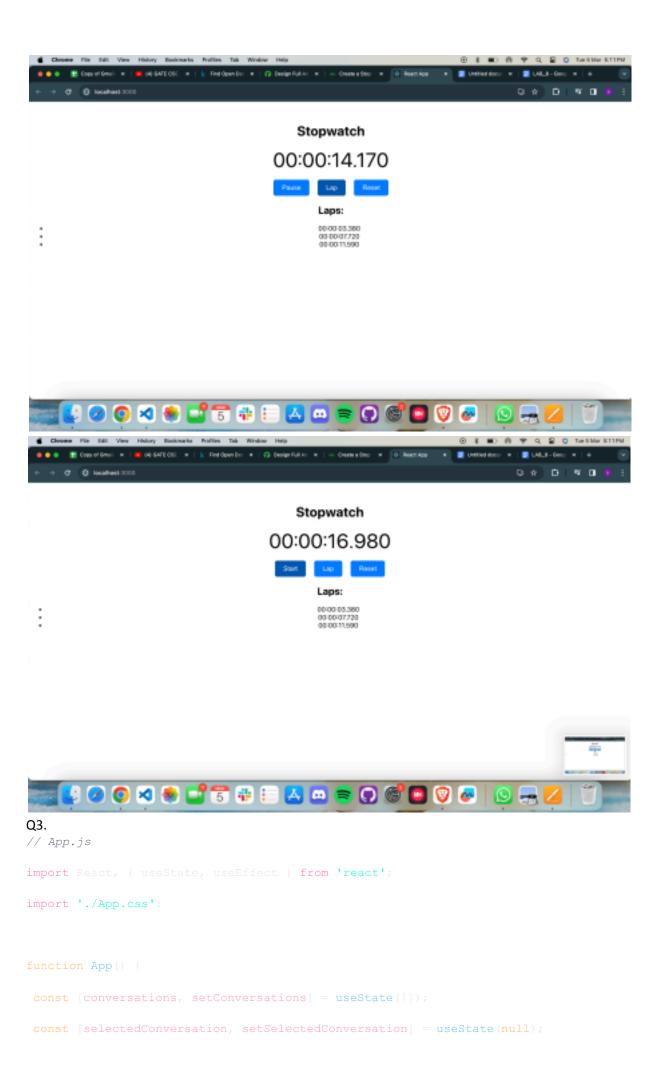
```
background-color: #007bff;
button:hover {
background-color: #0056b3;
                              Stopwatch
                          00:00:00.000
                                Laps:
  🛒 🛂 💋 📀 🖂 🍩 🚅 📅 🖶 🔼 😀 🛢 😱 🚭 📮 🦁 🔞 🕒 📙 🙇 📙
```





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```
const [newMessage, setNewMessage] = useState('');
 // Simulating fetching conversations from backend
 // In a real scenario, you would make an API call to fetch
  conversations const sampleConversations = [
   { id: 1, name: 'Friend1', messages: ['Hello', 'Hi there!'] },
   { id: 2, name: 'Friend2', messages: ['Hey', 'How are you?'] },
   // Add more sample conversations if needed
const handleConversationClick = (conversation) => {
 setSelectedConversation(conversation);
const handleSendMessage = () => {
  if (newMessage.trim() === '') return;
  const updatedConversations = conversations.map((conv) => {
   if (conv.id === selectedConversation.id) {
     return {
       messages: [...conv.messages, { text: newMessage, sender: 'user' }],
    return conv;
  setConversations(updatedConversations);
 setNewMessage('');
```

return (

```
<div className="App">
     <div className="sidebar">
=== conversation.id ? 'active' : ''}
            onClick={() => handleConversationClick(conversation)}
     <div className="chatbox">
           <div className="chat-header">
           <div className="messages">
             {selectedConversation.messages.map((message, index) => (
               <div key={index} className={`message ${message.sender}`}>
           <div className="input">
               type="text"
               placeholder="Type your message..."
```

```
onChange={ (e) => setNewMessage(e.target.value) }
       Select a conversation to start chatting
export default App;
/* App.css */
body {
background-color: #f5f5f5;
background-color: #333;
```

```
.sidebar h2 {
ul {
ul li {
ul li.active {
background-color: #555;
background-color: #555;
```

```
background-color: #f9f9f9;
background-color: #007bff;
content: '';
border-right: 8px solid #007bff;
```

```
content: '';
border-left: 8px solid #f9f9f9;
.input input {
border: 1px solid #ccc;
.input button {
background-color: #007bff;
```

```
.input button:hover {
background-color: #0056b3;
color: #777;
⊕ 8 mm) @ ♥ Q D C TarkNar E17FM
                                                          ■ Unitted Scorr × | ■ LASLS - Genc × | +
 + + 0 0 localizati 2000
 Conversations
                       Select a conversation to start chatting
```

