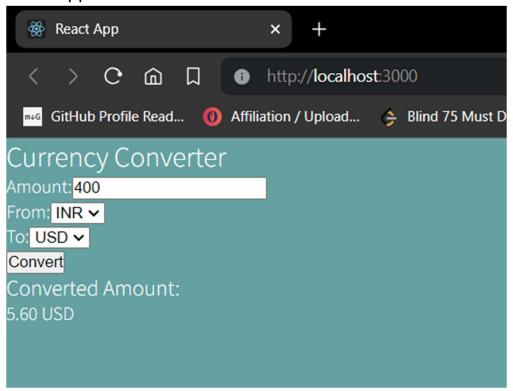
Web Tech Assignment Lab-8

T1: Code of App.js file in my React App:-

```
import React, { useState } from 'react';
const CurrencyConverter = () => {
 const [amount, setAmount] = useState(");
 const [fromCurrency, setFromCurrency] = useState('INR');
 const [toCurrency, setToCurrency] = useState('USD');
 const [convertedAmount, setConvertedAmount] = useState(0);
 const exchangeRate = 0.014;
 const handleAmountChange = (e) => {
  setAmount(e.target.value);
 const handleFromCurrencyChange = (e) => {
  setFromCurrency(e.target.value);
 const handleToCurrencyChange = (e) => {
  setToCurrency(e.target.value);
 };
 const convertCurrency = () => {
  const converted = amount * exchangeRate;
  setConvertedAmount(converted.toFixed(2));
 return (
    <h2>Currency Converter</h2>
     <label>Amount:</label>
     <input type="number" value={amount} onChange={handleAmountChange} />
    </div>
     <label>From:</label>
     <select value={fromCurrency} onChange={handleFromCurrencyChange}>
      <option value="INR">INR</option>
     </select>
    </div>
     <label>To:</label>
     <select value={toCurrency} onChange={handleToCurrencyChange}>
      <option value="USD">USD</option>
```

React App:



T2: Code of App.js file in my react app:

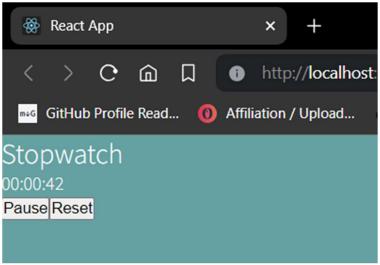
```
import React, { useState } from 'react';

const Stopwatch = () => {
  const [time, setTime] = useState(0);
  const [isRunning, setIsRunning] = useState(false);
  const [intervalId, setIntervalId] = useState(null);

const startTimer = () => {
  if (!isRunning) {
    const id = setInterval(() => {
      setTime(prevTime => prevTime + 1);
    }
}
```

```
}, 1000);
   setIntervalId(id);
    setIsRunning(true);
 const pauseTimer = () => {
  clearInterval(intervalId);
  setIsRunning(false);
 const resetTimer = () => {
  clearInterval(intervalId);
  setTime(0);
  setIsRunning(false);
 const formatTime = (time) => {
  const hours = Math.floor(time / 3600);
  const minutes = Math.floor((time % 3600) / 60);
  const seconds = time % 60;
  const formattedTime = [
   hours.toString().padStart(2, '0'),
   minutes.toString().padStart(2, '0'),
    seconds.toString().padStart(2, '0')
  ].join(':');
  return formattedTime;
 return (
    <h2>Stopwatch</h2>
     {formatTime(time)}
     {!isRunning ? (
      <button onClick={startTimer}>Start</button>
      <button onClick={pauseTimer}>Pause</button>
     <button onClick={resetTimer}>Reset
export default Stopwatch;
```

React App :-



T3: Code from App.js of react app:

```
import React, { useState } from 'react';
const App = () => {
 const [userAMessages, setUserAMessages] = useState([]);
 const [userBMessages, setUserBMessages] = useState([]);
 const [newMessageA, setNewMessageA] = useState(");
 const [newMessageB, setNewMessageB] = useState(");
 const handleMessageSendA = () => {
  if (newMessageA.trim() !== ") {
    const newMessageObj = {
     text: newMessageA,
     sender: 'A',
     timestamp: new Date().toISOString()
   setUserAMessages([...userAMessages, newMessageObj]);
    setNewMessageA(");
 const handleMessageSendB = () => {
  if (newMessageB.trim() !== ") {
    const newMessageObj = {
     text: newMessageB,
     sender: 'B',
     timestamp: new Date().toISOString()
   setUserBMessages([...userBMessages, newMessageObj]);
    setNewMessageB(");
```

```
return (
  <div className="app">
   <div className="user-section">
    <h2>User A</h2>
    <div className="message-section">
     <h3>Messages from User B</h3>
     <div className="message-container">
      {userBMessages.map((message, index) => (
        <div key={index} className="message from-b">
         {message.text}
         Sent by B at: {new
Date(message.timestamp).toLocaleString()}
        </div>
     </div>
      type="text"
      value={newMessageA}
      onChange={(e) => setNewMessageA(e.target.value)}
      placeholder="Type your message..."
     <button onClick={handleMessageSendA}>Send
    </div>
   <div className="user-section">
    <h2>User B</h2>
    <div className="message-section">
     <h3>Messages from User A</h3>
     <div className="message-container">
      {userAMessages.map((message, index) => (
        <div key={index} className="message from-a">
         {message.text}
         Sent by A at: {new
Date(message.timestamp).toLocaleString()}
      type="text"
      value={newMessageB}
      onChange={(e) => setNewMessageB(e.target.value)}
      placeholder="Type your message..."
     <button onClick={handleMessageSendB}>Send</button>
    </div>
   </div>
  </div>
export default App;
```

React App:

