

## CODE-1

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

function CurrencyConverter() {
  const [amount, setAmount] = useState(0);
  const [fromCurrency, setFromCurrency] =
    useState('USD'); const [toCurrency, setToCurrency] =
    useState('EUR'); const [convertedAmount,
    setConvertedAmount] = useState(0);

  // Hard-coded exchange rate
  const exchangeRate = 0.85; // 1 USD = 0.85 EUR
  const handleAmountChange = (e) => {
    const value = parseFloat(e.target.value);
    setAmount(value);
  };

  const handleFromCurrencyChange = (e) => {
    setFromCurrency(e.target.value);
  };

  const handleToCurrencyChange = (e) => {
```

```
setToCurrency(e.target.value);  
};
```

```
const convertCurrency = () => {  
  const result = amount * exchangeRate;  
  setConvertedAmount(result.toFixed(2)); // Round to 2  
  decimal places  
};
```

```
return (  
  <div>  
    <h2>Currency Converter</h2>  
    <div>  
      <label>  
        Amount:  
        <input type="number" value={amount}  
onChange={handleAmountChange} />  
      </label>  
    </div>  
    <div>  
      <label>  
        From Currency:  
        <select value={fromCurrency}  
onChange={handleFromCurrencyChange}>  
          <option value="USD">USD</option> <option  
value="EUR">EUR</option> </select>  
      </label>
```

```

</div>

<div>

<label>

To Currency:

<select value={toCurrency}
onChange={handleToCurrencyChange}>
<option value="USD">USD</option>
<option value="EUR">EUR</option>
</select>

</label>

</div>

<button onClick={convertCurrency}>Convert</button>

<div>

{amount} {fromCurrency} is equal to {convertedAmount}
{toCurrency}

</div>

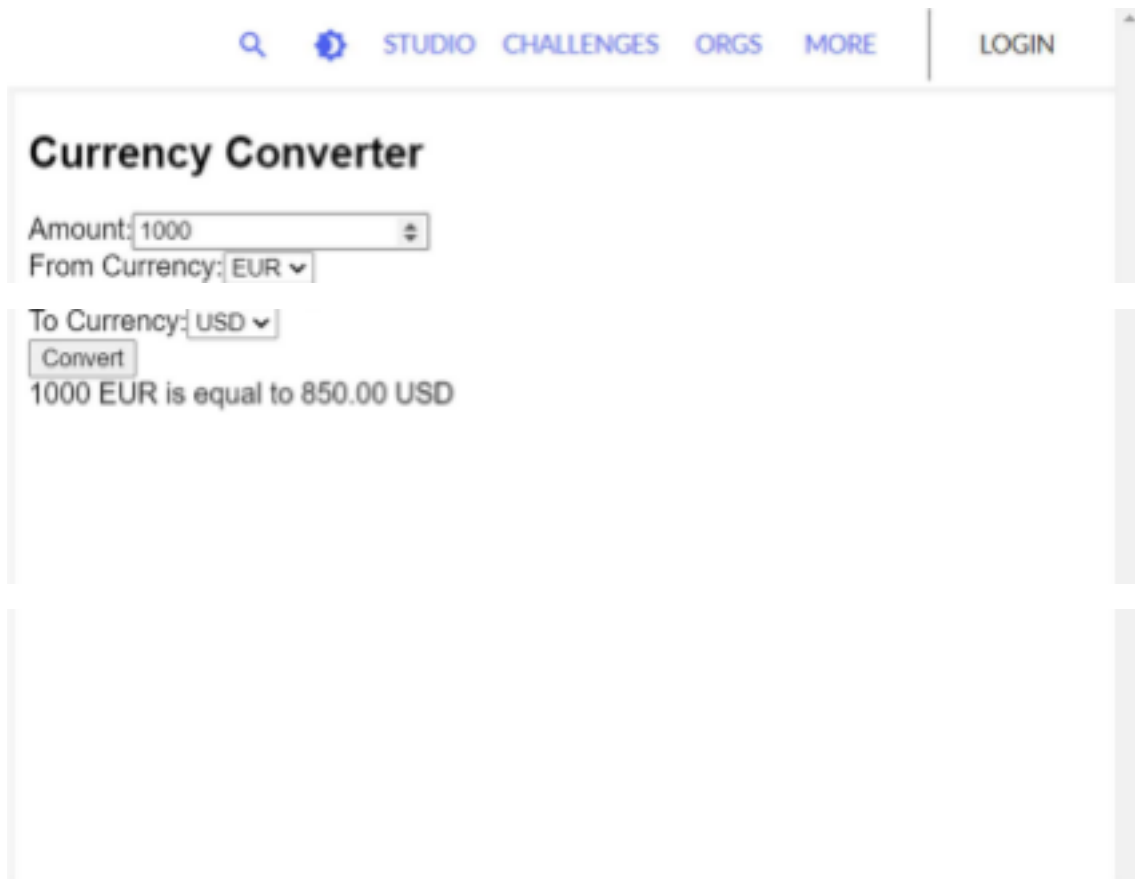
</div>

);
}

```

```
export default CurrencyConverter;
```

# OUTPUT



## CODE-2

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

```
function Stopwatch() {
```

```
  const [mer, setTimer] = useState(0); const
```

```
  [isRunning, setIsRunning] = useState(false);
```

```
  useEffect(() => {
```

```
    let intervalId;
```

```
    if (isRunning) {
```

```
      intervalId = setInterval(() => {
```

```
        setTimer((prevTimer) => prevTimer + 1);
```

```
}, 1000);  
  } else {  
    clearInterval(intervalId);  
  }  
  return () =>  
    clearInterval(intervalId); },  
  [isRunning]);
```

```
const startTimer = () => {  
  setIsRunning(true);  
};
```

```
const pauseTimer = () => {  
  setIsRunning(false);  
};
```

```
const resetTimer = () => {  
  setTimer(0);  
  setIsRunning(false);  
};
```

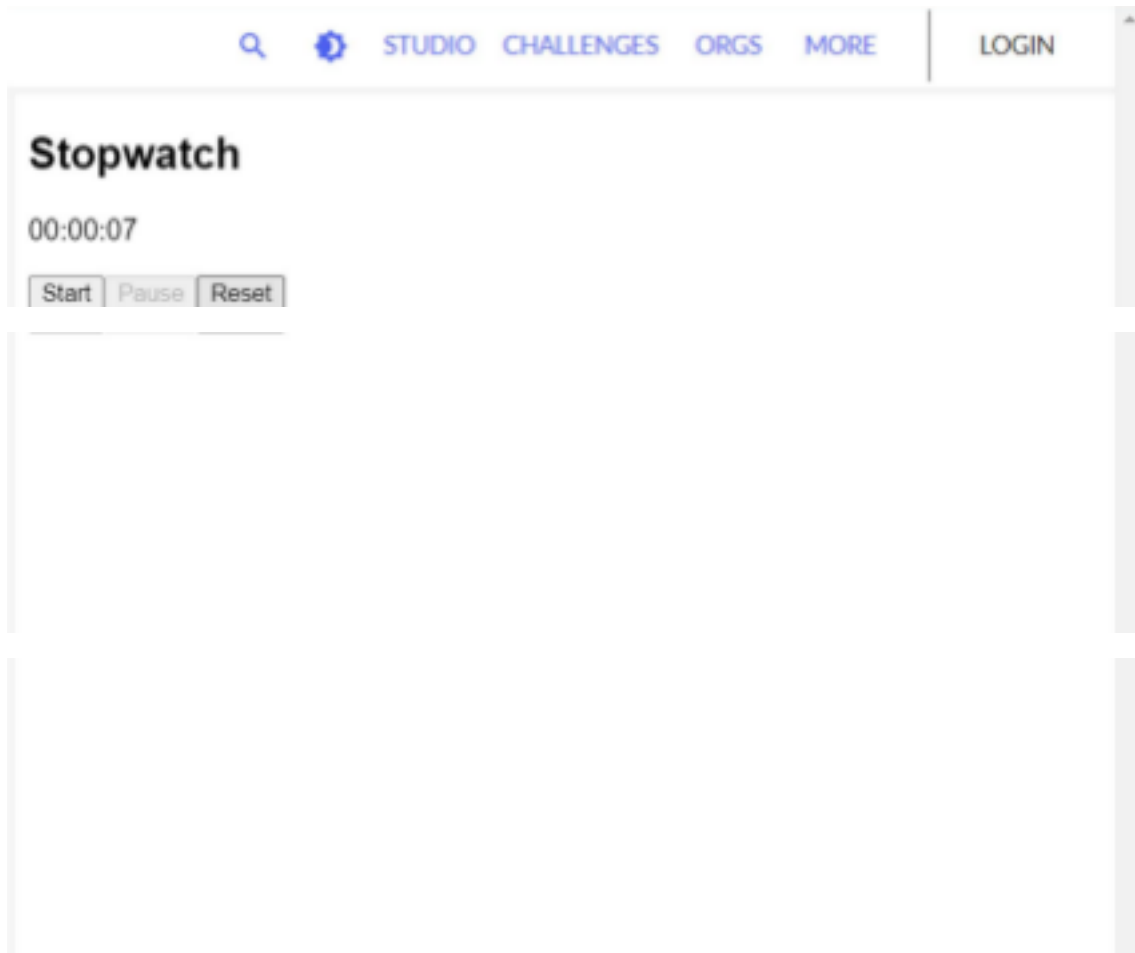
```
const formatTime = (me) => {  
  const hours = Math.floor(me / 3600);  
  const minutes = Math.floor((me % 3600) /  
60); const seconds = me % 60;  
  return `${hours.toString().padStart(2,
```

```
'0')}:${minutes.toString()
.padStart(2, '0')}:${seconds.toString().padStart(2,
'0')}`; };
```

```
return (
  <div>
    <h2>Stopwatch</h2>
    <div>
      <p>{formatTime(mer)}</p>
    </div>
    <div>
      <button onClick={startTimer} disabled={isRunning}>
Start
      </button>
      <button onClick={pauseTimer} disabled={!isRunning}>
Pause
      </button>
      <button onClick={resetTimer}>Reset</button>
    </div>
  </div>
);
}
```

```
export default Stopwatch;
```

# OUTPUT



## CODE-3

```
import React, { useState } from 'react';
const MessagingApp = () => {
  const [conversaons, setConversaons] =
  useState([ { id: 1, name: 'Family', messages: [] },
    { id: 2, name: 'Friends', messages: [] },
  ]);
  const [selectedConversaon,
    setSelectedConversaon] = useState(null);
```

```

const [newMessage, setNewMessage] = useState("");
const handleConversaonClick = (conversaonId)
=> { setSelectedConversaon(conversaonId);
};

const handleSendMessage = () => {
  if (newMessage.trim() !== "" && selectedConversaon) {
    const updatedConversaons = conversaons.map((conversaon)
=>
      conversaon.id === selectedConversaon
      ? {
        ...conversaon,
        messages: [
          { text: newMessage, mestamp: new
Date().toLocaleTimeString() },
          ...conversaon.messages,
        ],
      }
      : conversaon
    );
    setConversaons(updatedConversaons);
    setNewMessage("");
  }
};
return (
  <div>
    <h1>Messaging App</h1>

```



```

<div style={{ display: 'flex' }}>
  {/* List of Conversaons */}
  <div style={{ flex: '1', borderRight: '1px solid #ccc',
padding: '10px' }}>
    <h2>Conversaons</h2>
    <ul>
      {conversaons.map((conversaon) => (
        <li key={conversaon.id} onClick={() =>
handleConversaonClick(conversaon.id)}>
          {conversaon.name}
        </li>
      ))}
    </ul>
  </div>

```

```

  {/* Chat Interface */}
  <div style={{ flex: '3', padding: '10px' }}>
    {selectedConversaon && (
      <div>
        <h2>Chat with {conversaons.find((conv) => conv.id ===
selectedConversaon).name}</h2>
        <div style={{ maxHeight: '300px', overflowY: 'auto', border:
'1px solid #ccc', padding: '10px' }}>
          {conversaons
            .find((conv) => conv.id === selectedConversaon)
            .messages.map((message, index) => (

```

```

<div key={index} style={{ border: '1px solid #eee',
padding: '5px' }}>
  <strong>{message.timestamp}</strong>: {message.text}
</div>

  )}
</div>

<textarea
  rows="3"
  value={newMessage}
  onChange={(e) => setNewMessage(e.target.value)}
/>

  <button onClick={handleSendMessage}>Send</button>
</div>

)}
</div>
</div>
</div>

);
};

```

```
export default MessagingApp;
```

# OUTPUT

### Chat With Family

- Family
- Friends

5:34:48 PM: ok i will call you later good night sweet dreams

5:34:13 PM: hello

[illegible]

1

Send