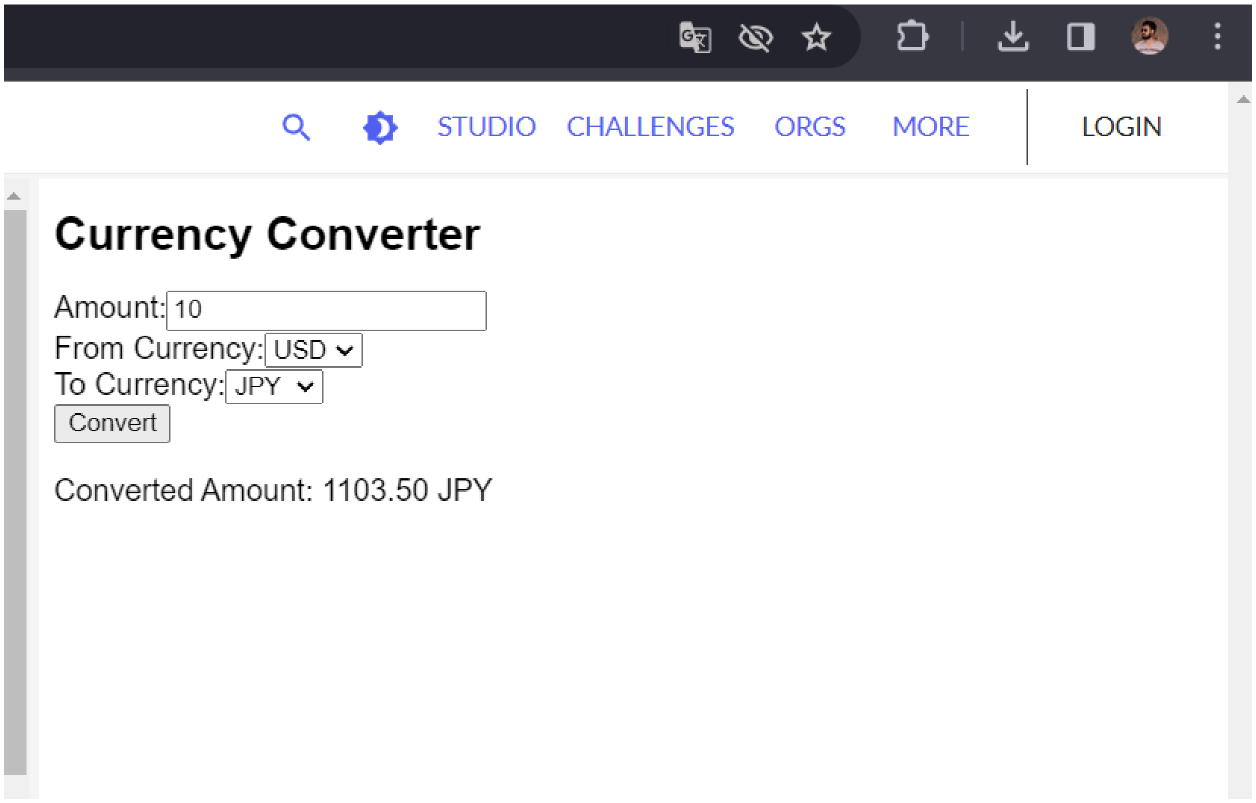
T1.

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

const ExchangeRates = {
  USD: 1,
  EUR: 0.85,
  GBP: 0.73,
  JPY: 110.35,
};

const CurrencyConverter = () => {
  const [amount, setAmount] = useState('');
  const [fromCurrency, setFromCurrency] = useState('USD');
  const [toCurrency, setToCurrency] = useState('EUR');
  const [result, setResult] = useState('');

  const handleAmountChange = (e) => {
    setAmount(e.target.value);
  };

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

  const handleToCurrencyChange = (e) => {
    setToCurrency(e.target.value);
  };

  const convertCurrency = () => {
    const convertedAmount = (amount * ExchangeRates[toCurrency]) /
ExchangeRates[fromCurrency];
    setResult(convertedAmount.toFixed(2));
  };

  return (
    <div>
      <h1>Currency Converter</h1>
      <div>
        <label>
          Amount:
```

```
          <input type="number" value={amount} onChange={handleAmountChange} />
        </label>
      </div>
      <div>
        <label>
          From Currency:
          <select value={fromCurrency} onChange={handleFromCurrencyChange}>
            {Object.keys(ExchangeRates).map((currency) => (
              <option key={currency} value={currency}>
                {currency}
              </option>
            ))}
          </select>
        </label>
      </div>
      <div>
        <label>
          To Currency:
          <select value={toCurrency} onChange={handleToCurrencyChange}>
            {Object.keys(ExchangeRates).map((currency) => (
              <option key={currency} value={currency}>
                {currency}
              </option>
            ))}
          </select>
        </label>
      </div>
      <button onClick={convertCurrency}>Convert</button>
      <div>
        {result && (
          <p>
            Converted Amount: {result} {toCurrency}
          </p>
        )}
      </div>
    </div>
  );
};

export default CurrencyConverter;
```



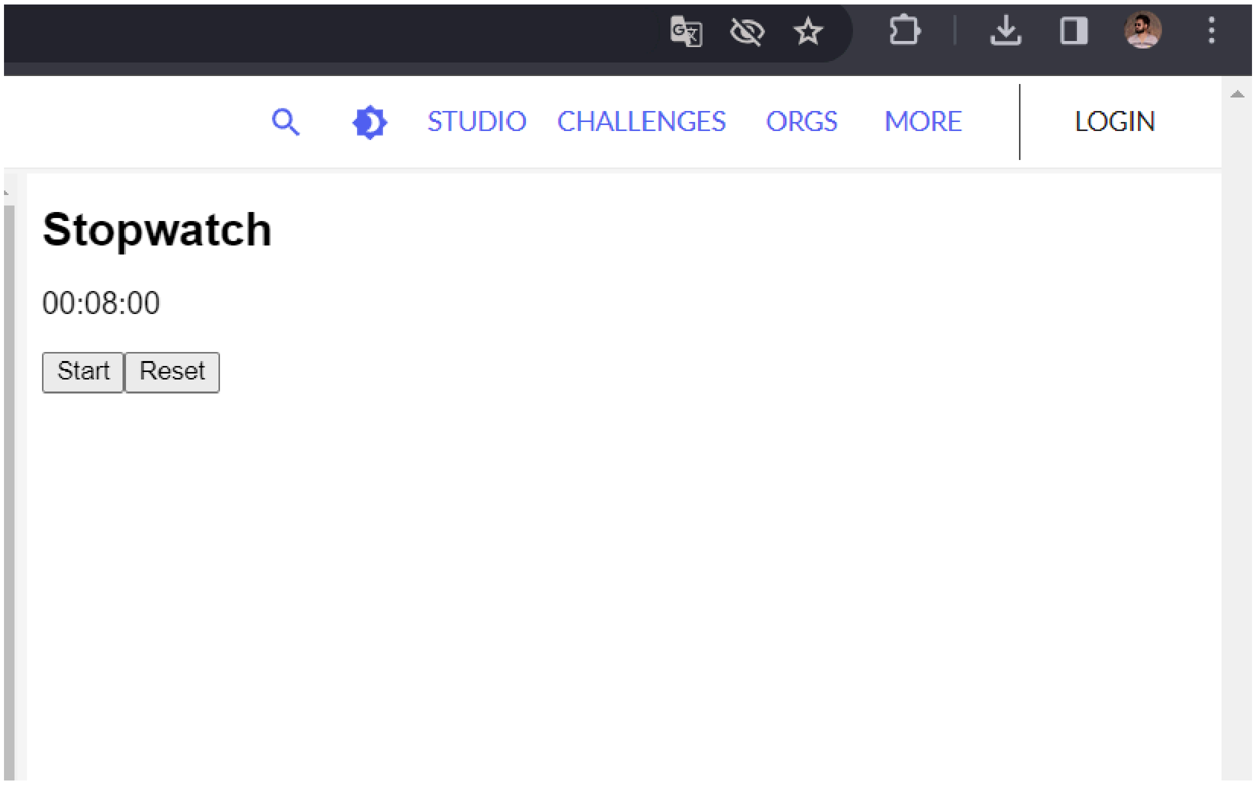
Currency Converter

Amount: 10
From Currency: USD
To Currency: JPY
Convert

Converted Amount: 1103.50 JPY

T2.

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

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

  const startStopwatch = () => {
    if (!isRunning) {
      const startTime = Date.now() - time;
      intervalRef.current = setInterval(() => {
        setTime(Date.now() - startTime);
      }, 1000);
    } else {
      clearInterval(intervalRef.current);
    }
    setIsRunning(!isRunning);
  };

  const resetStopwatch = () => {
    clearInterval(intervalRef.current);
    setTime(0);
    setIsRunning(false);
  };

  const formatTime = (time) => {
    const padTime = (time) => {
      return time.toString().padStart(2, '0');
    };
    const minutes = Math.floor(time / 60000);
    const seconds = Math.floor((time % 60000) / 1000);
    const milliseconds = Math.floor((time % 1000) / 10);
    return `${padTime(minutes)}:${padTime(seconds)}:${padTime(milliseconds)}`;
  };

  return (
    <div>
      <h1>Stopwatch</h1>
      <p>{formatTime(time)}</p>
      <button onClick={startStopwatch}>{isRunning ? 'Pause' : 'Start'}</button>
      <button onClick={resetStopwatch}>Reset</button>
    </div>
  );
};

export default Stopwatch;
```



Stopwatch

00:08:00