

WEB TECHNOLOGY

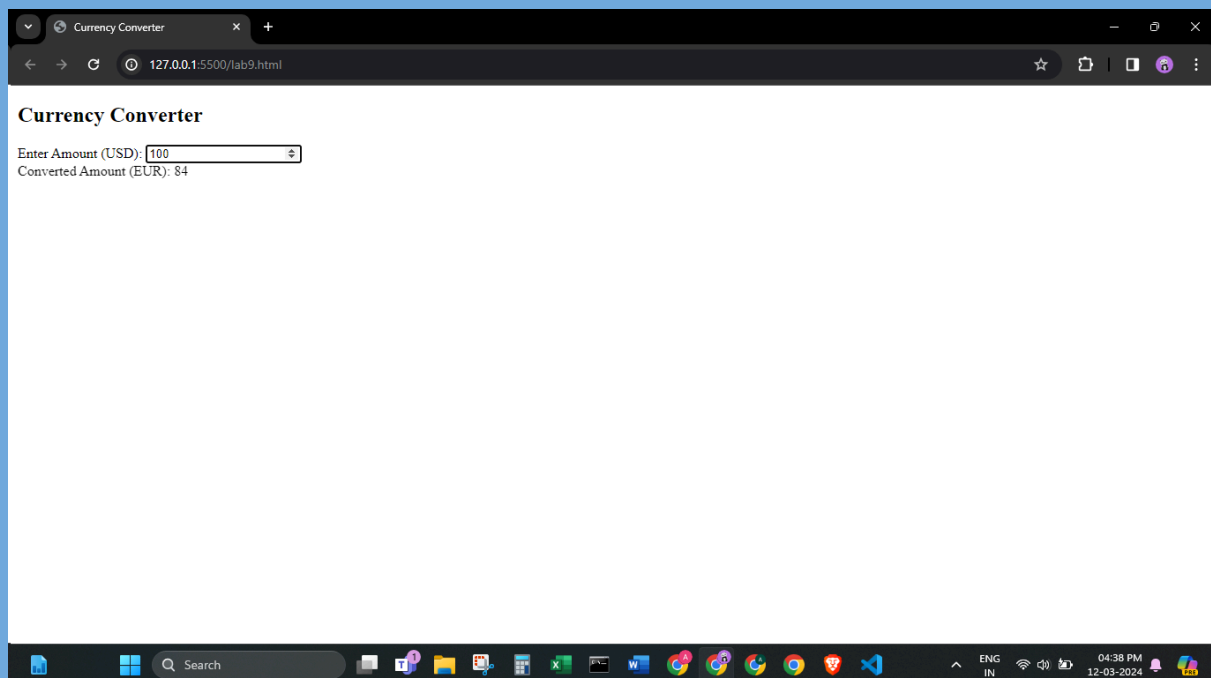
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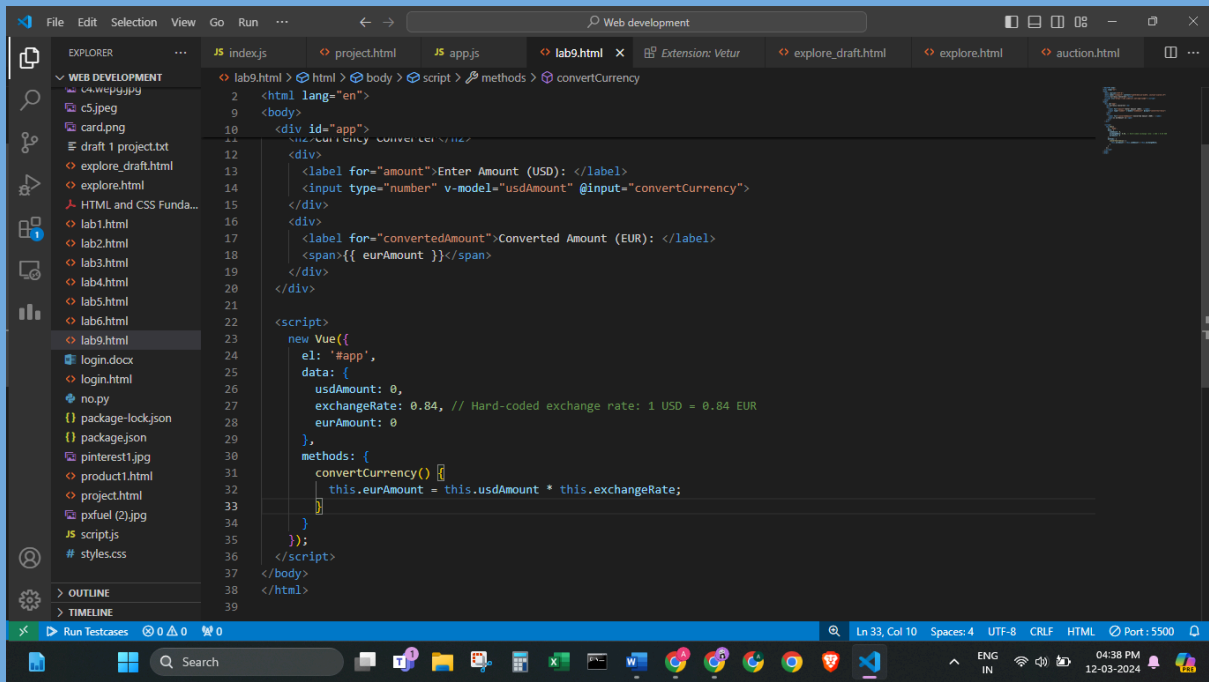
NAME - BHUSHIT CHAWHAN

BRANCH - CSE

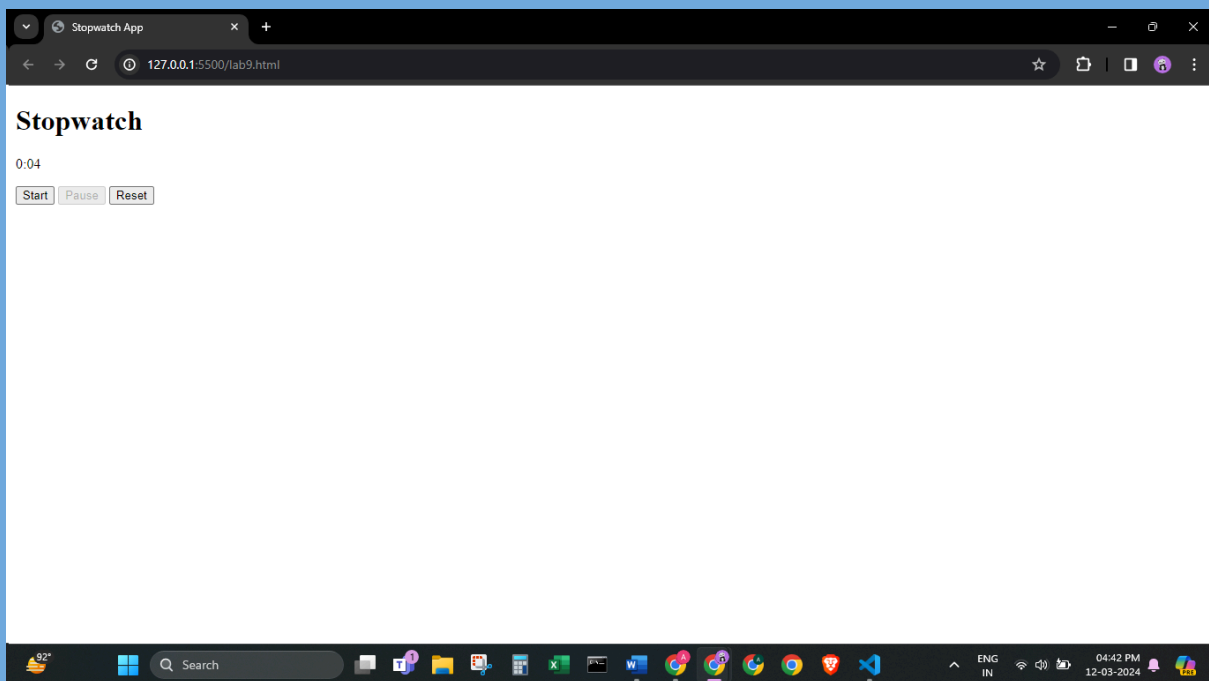
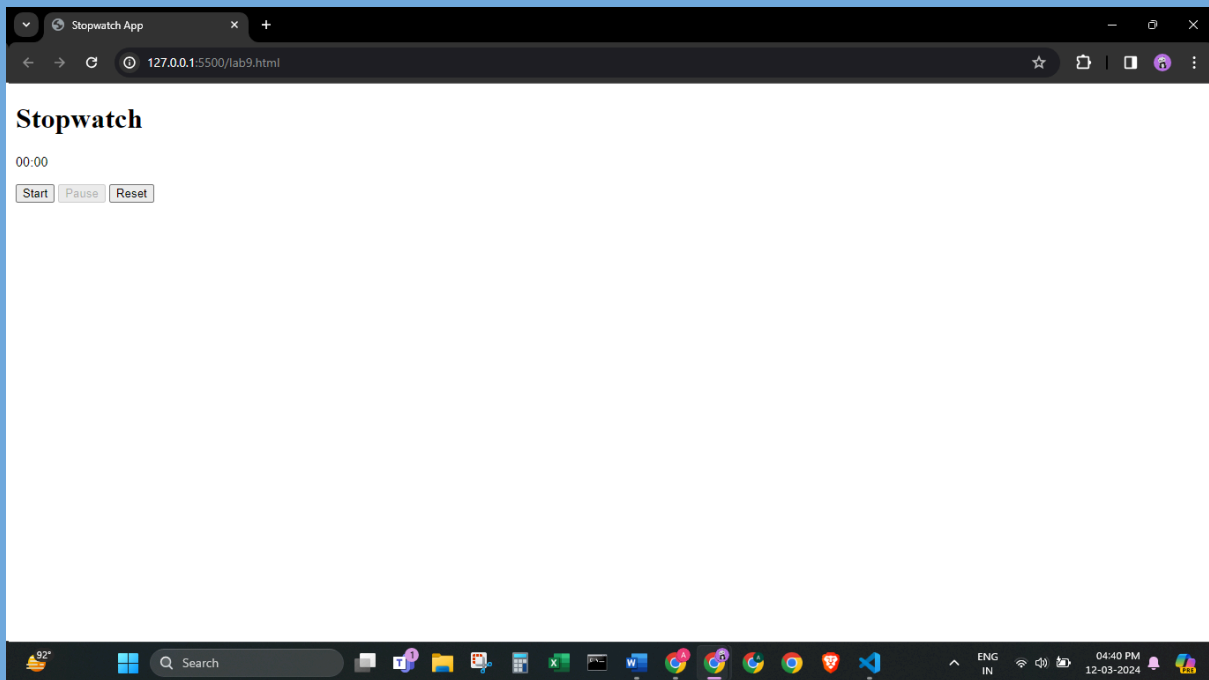
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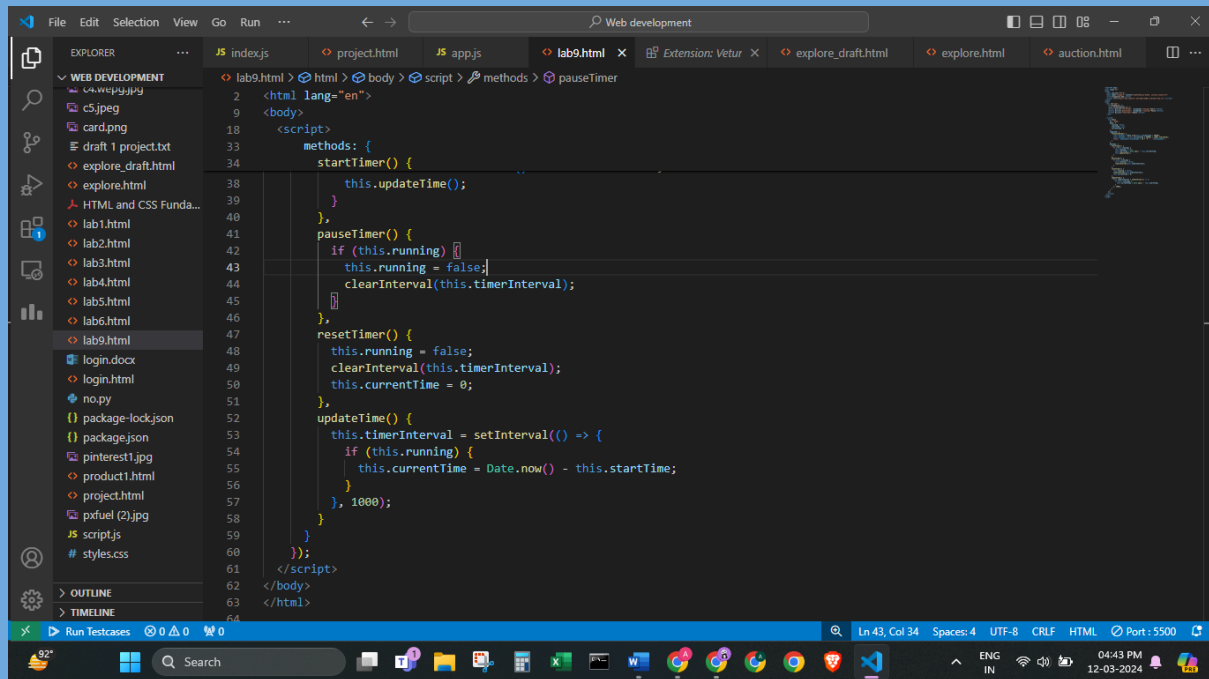
T1. Develop a currency converter application that allows users to input an amount in one currency and convert it to another. For the sake of this challenge, you can use a hard-coded exchange rate. Take advantage of React state and event handlers to manage the input and conversion calculations.





T2. Create a stopwatch application through which users can start, pause and reset the timer. Use React state, event handlers and the `setTimeout` or `setInterval` functions to manage the timer's state and actions.





```
2 <html lang="en">
9 <body>
18 <script>
33   methods: {
34     startTimer() {
38       this.updateTime();
39     },
40   },
41   pauseTimer() {
42     if (this.running) {
43       this.running = false;
44       clearInterval(this.timerInterval);
45     }
46   },
47   resetTimer() {
48     this.running = false;
49     clearInterval(this.timerInterval);
50     this.currentTime = 0;
51   },
52   updateTime() {
53     this.timerInterval = setInterval(() => {
54       if (this.running) {
55         this.currentTime = Date.now() - this.startTime;
56       }
57     }, 1000);
58   }
59 };
60 </script>
61 </body>
62 </html>
```

T3. Develop a messaging application that allows users to send and receive messages in real time. The application should display a list of conversations and allow the user to select a specific conversation to view its messages. The messages should be displayed in a chat interface with the most recent message at the top. Users should be able to send new messages and receive push notifications.

