LAB_9_ASSIGNMENT_WEB_TECH

Task 1

```html
<template>
  <div id="app">
    <h1>Currency Converter</h1>
    <input type="number" v-model="amount" placeholder="Enter amount" />
    <select v-model="fromCurrency">
      <option value="USD">USD</option>
      <option value="EUR">EUR</option>
    </select>
    <select v-model="toCurrency">
      <option value="USD">USD</option>
      <option value="EUR">EUR</option>
    </select>
    <button @click="convertCurrency">Convert</button>
    <p>{{ convertedAmount }}</p>
  </div>
</template>

<script>
export default {
  data() {
    return {
      amount: null,
      fromCurrency: "USD",
      toCurrency: "EUR",
      exchangeRate: {
        USD: { EUR: 0.85 },
        EUR: { USD: 1.18 },
      },
      convertedAmount: null,
    };
  },
  methods: {
```
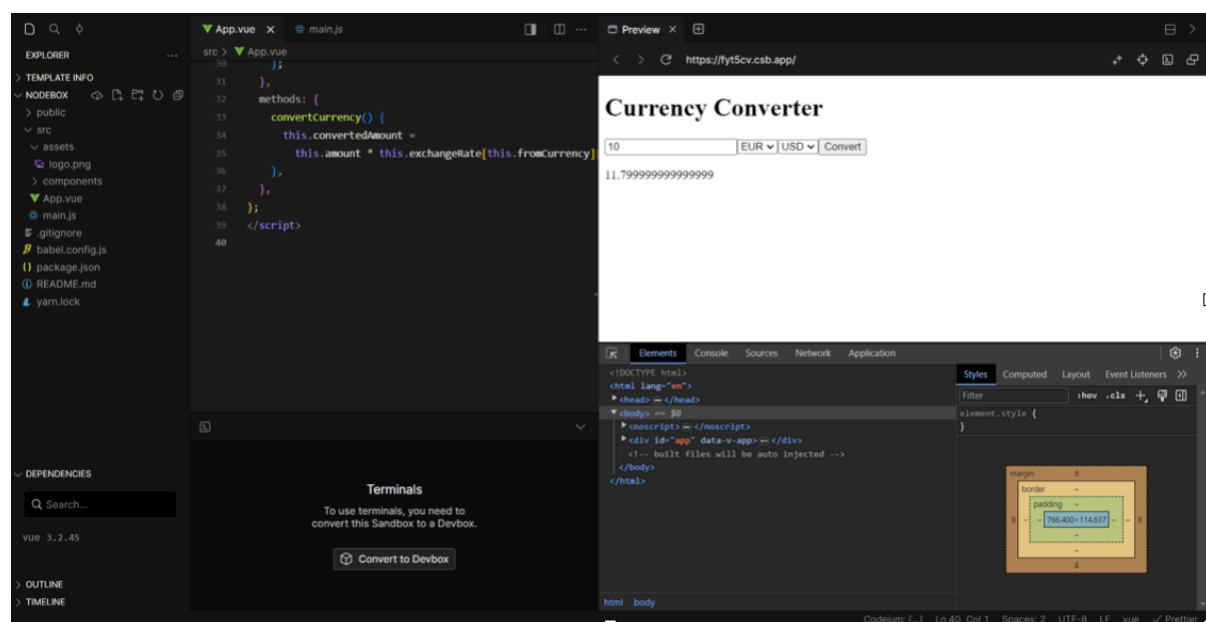
```
    convertCurrency() {
      this.convertedAmount =
        this.amount * this.exchangeRate[this.fromCurrency]
[this.toCurrency];
    },
  },
};
</script>
```


Task 2

```
<template>
  <div id="app">
    <h1>Stopwatch</h1>
    <button @click="startStopwatch">Start</button>
    <button @click="pauseStopwatch">Pause</button>
    <button @click="resetStopwatch">Reset</button>
    <p>{{ time }}</p>
  </div>
```
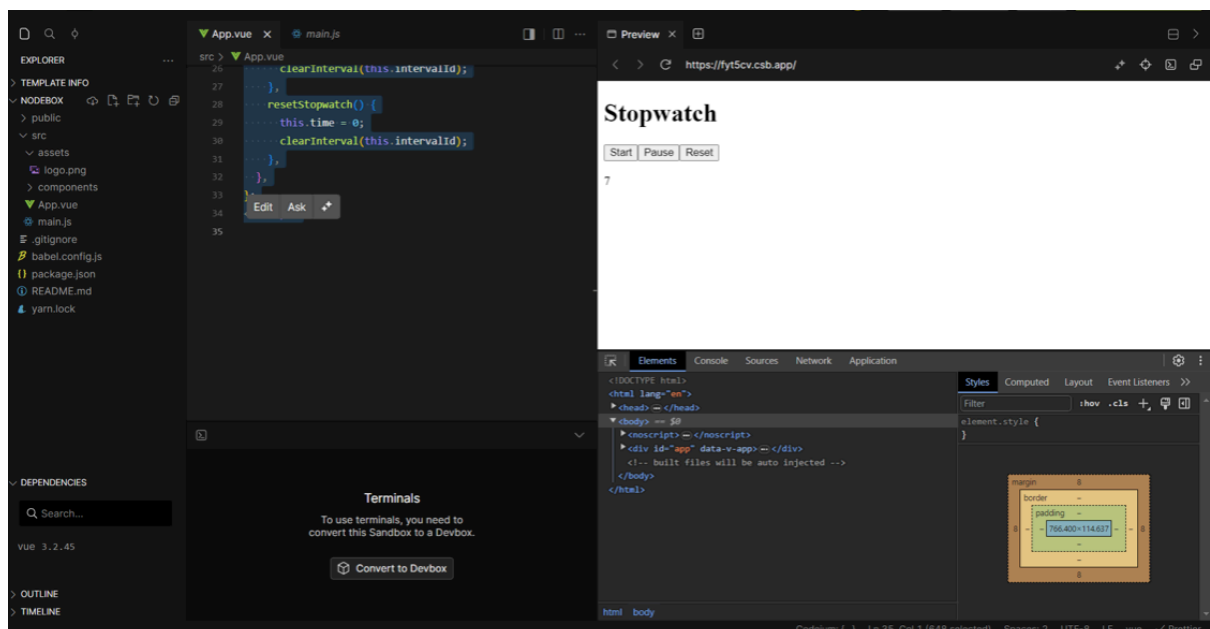
```
</template>

<script>
export default {
  data() {
    return {
      time: 0,
      intervalId: null,
    };
  },
  methods: {
    startStopwatch() {
      this.intervalId = setInterval(() => {
        this.time++;
      }, 1000);
    },
    pauseStopwatch() {
      clearInterval(this.intervalId);
    },
    resetStopwatch() {
      this.time = 0;
      clearInterval(this.intervalId);
    },
  },
};
</script>
```

Task 3

```
<template>
  <div id="app">
    <h1>Messaging App</h1>
    <div v-for="conversation in conversations" :key="conversation.id">
      <h2 @click="selectConversation(conversation.id)">
        {{ conversation.name }}
      </h2>
    </div>
    <div v-if="selectedConversation">
      <div v-for="message in
selectedConversation.messages" :key="message.id">
        <p>{{ message.text }}</p>
      </div>
      <input type="text" v-model="newMessage" placeholder="Type a
message" />
      <button @click="sendMessage">Send</button>
    </div>
  </div>
</template>

<script>
export default {
  data() {
    return {
      conversations: [
        { id: 1, name: "Conversation 1", messages: [] },
        { id: 2, name: "Conversation 2", messages: [] },
      ],
      selectedConversation: null,
      newMessage: "",
    };
  },
  methods: {
    selectConversation(id) {
      this.selectedConversation = this.conversations.find((c) => c.id
=== id);
```

```
    },

    sendMessage() {
      if (this.newMessage.trim() !== "") {
        this.selectedConversation.messages.push({
          id: Date.now(),
          text: this.newMessage,
        });
        this.newMessage = "";
      }
    },
  },
};
</script>
```