

Web Technology Lab 9

Name : Gourab Chowdhury

Roll No :22CS3069

Branch :CSE

T1.

Code:

```
<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>
```

Web View ×

Currency Converter

100 USD ▼ EUR ▼ Convert

85

T2

Code:

```
<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);
    }
  }
}
```

```
<template>
<div id="app">
  <h1>Stopwatch</h1>
```

```
},  
resetStopwatch() {  
    this.time = 0;  
    clearInterval(this.intervalId);  
},  
},  
};  
</script>
```

Web View X

Stopwatch

Start

Pause

Reset

33

T3.

Code:

```
<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>
</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>
```

Messaging App

Conversation 1

Conversation 2

HI

HELLO