

Web Technology

Lab Assignment –

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Task 1)

```
<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>

```

Output)

Web View X

Currency Converter

100 USD EUR Convert

85

Task 2)

```
<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>
```

Output)



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>
```

Output)

Messaging App

Conversation 1

Conversation 2

HI

HELLO