**Q1**

```
<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**

## Q2

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

```vue
    <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>
```

# Web View ✕

## Stopwatch

Start  Pause  Reset

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## Q3.

```html
<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>
```

# Messaging App

## Conversation 1

## Conversation 2

HI

HELLO

[Type a message] [Send]