```html
1  <!--
2      Name: Ark Nandan Singh Chauhan, 19323352
3      HTML fornt-end wth vue to render weather data from server
4  -->
5  <!DOCTYPE html>
6  <html>
7      <head>
8          <meta charset="utf-8">
9          <meta http-equiv="X-UA-Compatible" content="IE=edge">
10         <title>Ark's-Weather App</title>
11         <meta name="description" content="">
12         <meta name="viewport" content="width=device-width, initial-scale=1">
13         <!-- Vue Script Tag -->
14         <script src="https://cdn.jsdelivr.net/npm/vue@2/dist/vue.js">
</script>
15         <script src="https://unpkg.com/axios/dist/axios.min.js"></script>
16         <!-- Tag End -->
17         <link rel="stylesheet" href="">
18         <style>
19             table, th, td {
20                 border: 1px solid black;
21                 border-collapse: collapse;
22             }
23             th, td {
24                 padding: 5px;
25                 text-align: left;
26             }
27         </style>
28     </head>
29     <body>
30         <h2>Weather App-Ark Chauhan, 19323352</h2>
31         <!-- All Vue componeents inside id `app` -->
32         <div id="app">
33
34             <!-- Enter city name -->
35             <input v-model="city_name" placeholder="City Name, eg.Dublin">
36             <!-- Button for getting weather Info -->
37             <button v-on:click="show_weather_info">View</button>
38
39
40             <div id="output">
41
42                 <!-- Error to show when server error received -->
43                 <p v-if="received_server_error == true" style="color:
red;">Could Not retrieve Weather Data! </p>
44
45                 <!-- span with condition to view server response containing
weather data -->
46                 <span v-if="weather_data != null">
47                     <h3>Rain Conditions:</h3>
48                     <p v-if="weather_data.data.carry_umbrella_5days == true">
49                         YES, User should carry Umbrella, it can rain over the
next 5 days.
50                     </p>
51                     <p v-else= "weather_data.data.carry_umbrella_5days ==
false">
52                         NO, User needs not to carry Umbrella, it will not
rain over the next 5 days.
53                     </p>
54                     <h3>Weather Conditions:</h3>
```

```
55                          <p>{{weather_data.data.packing_based_on_temp}}</p>
56                          <h3>Weather Summary:</h3>
57                          <!-- Table to display wheather data with date and time
      for 5 days -->
58                          <table>
59                              <thead>
60                                  <th>Date</th>
61                                  <th>Time</th>
62                                  <th>Temperature(°C) Every 3hr</th>
63                                  <th>Average Temperature(°C)</th>
64                                  <th>Average Wind Speed(m/s)</th>
65                                  <th>Minimum Temperature(°C)</th>
66                                  <th>Maximum Temperature(°C)</th>
67                                  <th>Total Rainfall Level(mm)</th>
68                                  <th>Is it Raining(True/False)</th>
69                              </thead>
70                              <tbody>
71                                  <template v-for="(entry_data,date) in
      weather_data.data.forecast">
72                                      <tr>
73                                          <td>{{date}}</td>
74                                          <td>
75                                              <!-- display time for each day -->
76                                              <template v-for="(el1) in
      entry_data.time">
77                                                  <tr>{{el1}}</tr>
78                                              </template>
79                                          </td>
80                                          <td>
81                                              <!-- display temperature
corresponding to time(every 3hr) for a day -->
82                                              <template v-for="(el1) in
      entry_data.temperature">
83                                                  <tr>{{el1}}</tr>
84                                              </template>
85                                          </td>
86                                          <td>{{entry_data.avgTempCelsius}}</td>
87                                          <td>{{entry_data.avgWind}}</td>
88                                          <td>{{entry_data.tempRangeCelsius[0]}}
      </td>
89                                          <td>{{entry_data.tempRangeCelsius[1]}}
      </td>
90                                          <td>{{entry_data.totalRainfall}}</td>
91                                          <td>{{entry_data.isRaining}}</td>
92                                      </tr>
93                                  </template>
94
95                              </tbody>
96                          </table>
97                      </span>
98                      <!-- end of span -->
99
100                 </div>
101             </div>
102         </body>
103
104         <script>
105             var app = new Vue({
106                 el: '#app',
107                 data: {
```

```
108                city_name:'',
109                received_server_error: false,
110                weather_data:null,
111            },
112            methods:{
113                show_weather_info: show_weather_info
114            }
115        });

116
117        function show_weather_info(){
118            // fetch weather data from server route based on input city
     name: eg. http://localhost:3000/dublin
119            axios.get(`http://localhost:3000/${this.city_name}`)
120            .then((server_response) => {
121                this.weather_data = server_response;
122                this.received_server_error = false;
123            })
124            .catch((error) => {
125                console.log(error);
126                this.received_server_error = true;
127            });
128        }
129    </script>
130
131 </html>
```