

# Week1

Note:

HTML: It provides users with a basic site structure.

CSS: It is mainly used to control, to help users control the presentation, formatting, and layout.

JavaScript: It is used to control the behavior of different elements.

Vue.js: It is a progressive frame constructing user interfaces.

Task 1-4 code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <script src="https://unpkg.com/vue/dist/vue.min.js"></script>
6   <script>
7
8   Vue.component('todo-item', {
9     template: `
10       <li>
11         {{ title }}
12         <button v-on:click="$emit('remove')">Remove</button>
13       </li>
14     `,
15     props: ['title']
16   })
17
18 document.addEventListener('DOMContentLoaded', function () {
19   new Vue({
20     el: '#todo-list-example',
21     data: {
22       newTodoText: '',
23       todos: [
24         {
25           id: 1,
26           title: 'Assignment 1',
27         },
28         {
29           id: 2,
30           title: 'Assignment 2',
31         },
32         {
33           id: 3,
34           title: 'Assignment 3'
35         }
36       ],
37       nextTodoId: 4
38     },
39     methods: {
40       addNewTodo: function () {
41         this.todos.push({
42           id: this.nextTodoId++,
43           title: this.newTodoText
44         })
45         this.newTodoText = ''
46       }
47     }
48   })
49 })
50 })
```

```

51 </script>
52
53
54
55 <title>Self-Driving car</title>
56 <style>
57
58
59 body {
60   font-size: 1rem;
61   font-weight: normal;
62   color: #252E36;
63   text-align: left;
64   background-color: #E8E4DD;
65 }
66
67
68 /*Paragraph adjustment: change the font style to Times New Roman*/
69 p.serif {
70   font-family: "Times New Roman", Times, serif;
71 }
72
73 /*Table style adjustments, border style, border thickness and color*/
74 table,
75 th,
76 td {
77   border: 3px solid black;
78   color: black;
79 }
80
81 /*The css margin attribute defines the space around the element*/
82 div.margin {
83   margin-top: 100px;
84   margin-bottom: 100px;
85   margin-right: 100px;
86   margin-left: 100px;
87 }
88
89
90 </style>
91 </head>
92
93 <body>
94   <div class="margin">
95
96
97     <h1>
98       General Information
99     </h1>

```

```

99 </h1>
100 <!-- Follow css and Image Html tag 1 -->
101 
102 <p class="serif">
103   At this stage, self-driving cars are slowly becoming popular. It began to slowly affect people's lives. As an unmanned transportation vehicle, self-driving cars can drive autonomously without human operation.
104 </p>
105
106 <!-- Unordered list Html tag 2 -->
107 <ul>
108   <li>Reduce traffic accidents: More than 1.2 million people die in traffic accidents worldwide each year. If the era of autonomous vehicles comes, these numbers will be significantly reduced.</li>
109   <li>Relieve congestion: Self-driving car can adjust the driving speed through simulation research to avoid traffic congestion.</li>
110   <li>Relieve parking difficulties: Self-driving car can reduce the space reserved for people by 10 cm on each side, which will save space.</li>
111 </ul>
112
113 </ul>
114
115
116
117 <!-- Tables Html tag 3 -->
118 <table border="1">
119   <th colspan="7">Self-driving classification</th>
120   <tr>
121     <td>National Highway Traffic Safety Administration</td>
122     <td>L0</td>
123     <td>L1</td>
124     <td>L2</td>
125     <td>L3</td>
126     <td>L4</td>
127     <td>L5</td>
128   </tr>
129   <tr>
130     <td>SAE</td>
131     <td>No automation</td>
132     <td>Driving support</td>
133     <td>Partially automated</td>
134     <td>Conditional automation</td>
135     <td>Highly automated</td>
136     <td>Fully automated</td>
137   </tr>
138   <tr>
139     <td>Define SAE</td>
140     <td>The driver is completely controlled by the host vehicle.</td>
141     <td>The driver needs full control of speed, throttle, brakes and steering wheel. The vehicle only informs and assists the driver in certain situations.</td>
142     <td>The vehicle has more driver assistance systems. But the driver still has to maintain control of the car and always pay attention to the traffic situation.</td>
143     <td>Autonomous driving under specific traffic and weather conditions. If the conditions are no longer suitable for the system to handle, it will notify the driver so that he can immediately regain control.</td>
144     <td>Without the help of the driver, the vehicle can fully perform all main driving functions, but it may sometimes require driver intervention.</td>
145     <td>The vehicle does not need a driver at all, no more control elements such as steering wheel or pedals, and can react like a human driver.</td>
146   </tr>
147

```

```

148 </table>
149
150
151 <!-- forms Html tag 4 -->
152 <form>
153   <h4>
154     Do you support autonomous driving?
155   </h4>
156   <input type="radio" name="support" value="support">support<br>
157   <input type="radio" name="support" value="not support">not support<br>
158
159   <input type="submit" value="Submit">
160
161 </form>
162
163
164 <p id="score">xueshengchengji</p >
165 <p id="dtime">Here is the time</p >
166
167 <!-- Test JS button and button Html tag 5-->
168 <button type="button" onclick="myFunction()">show time</button>
169
170
171 <!-- Todo list -->
172 <div id="todo-list-example">
173   <form v-on:submit.prevent="addNewTodo">
174     <label for="new-todo">Add a todo</label>
175     <input
176       v-model="newTodoText"
177       id="new-todo"
178       placeholder="E.g. Feed the cat"
179     >
180     <button>Add</button>
181   </form>
182   <ul>
183     <li
184       is="todo-item"
185       v-for="(todo, index) in todos"
186       v-bind:key="todo.id"
187       v-bind:title="todo.title"
188       v-on:remove="todos.splice(index, 1)"
189     ></li>
190   </ul>
191 </div>
192
193
194 </div>
195 </body>

```

```

196 <!-- JS -->
197 <script>
198   var a = 70;
199   var b = 89;
200   var c = 44;
201   var d = 56;
202   var e = 73;
203   var sum = a + b + c + d + e;
204   var avg = sum/5;
205   document.getElementById("score").innerHTML = "The sum score is: " + sum + " and the average score is: " + avg;
206
207
208   function myFunction() {
209     window.alert(Date());
210   }
211 </script>
212
213 </html>
214

```

# Webpage Screenshot:

General Information



At this stage, self-driving cars are slowly becoming popular. It began to slowly affect people's lives. As an unmanned transportation vehicle, self-driving cars can drive autonomously without human operation. Since the 1970s, many countries have begun to conduct research on driverless cars, and some breakthrough developments have been made. Autonomous driving is not a single technology, but a highly complex system composed of many systems. They are algorithm, client and cloud platform. Although it is not a mature technology for us now, I believe it will be applied in our lives in the future.

- Reduce traffic accidents: More than 1.2 million people die in traffic accidents worldwide each year. If the era of autonomous vehicles comes, these numbers will be significantly reduced.
- Relieve congestion: Self-driving car can adjust the driving speed through simulation research to avoid traffic congestion.
- Relieve parking difficulties: Self-driving car can reduce the space reserved for people by 10 cm on each side, which will save space.



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Self-driving classification						
National Highway Traffic Safety Administration	L0	L1	L2	L3	L4	L5
SAE	No automation	Driving support	Partially automated	Conditional automation	Highly automated	Fully automated
Define SAE	The driver is completely controlled by the host vehicle.	The driver needs full control of speed, throttle, brakes and steering wheel. The vehicle only informs and assists the driver in certain situations.	The vehicle has more driver assistance systems. But the driver still has to maintain control of the car and always pay attention to the traffic situation.	Autonomous driving under specific traffic and weather conditions. If the conditions are no longer suitable for the system to handle, it will notify the driver so that he can immediately regain control.	Without the help of the driver, the vehicle can fully perform all main driving functions, but it may sometimes require driver intervention.	The vehicle does not need a driver at all, no more control elements such as steering wheel or pedals, and can react like a human driver.

Do you support autonomous driving?

☐ support

☐ not support

The sum score is: 332 and the average score is: 66.4

Here is the time

Add a todo

- Assignment 1
- Assignment 2
- Assignment 3

## Reflection:

For the tasks of the first week, I spent about 3 hours to complete. Although some difficulties occurred when I did it. For example, when I was working on the fourth task of Vue, I found that I would not use this code. This is a big challenge for me. Later, I searched for relevant information through w3schools and CSDN and watched some videos about Vue. Finally, I resolved the difficulties and completed the design of

Vue. And through the exercises of this homework, I deepened my understanding and application of HTML, JavaScript, CSS, and Vue.