Week 1

Learning reflections:

HTML, CSS and JavaScript are the three programming languages that web front-end engineers must learn. This week we learned a lot of content related to HTML, CSS and JavaScript.

HTML: HyperText Markup Language, is the standard markup language for creating a web pages and structures a website. HTML pages not only contain text, but also images, links, audio, video and other content. In HTML files, in addition to using HTML language, you can also embed other scripting languages, often embedded in CSS cascading style sheets and JavaScript scripts. HTML file consists of several HTML elements

CSS: Cascading Style Sheets, stands for Cascading. CSS is a computer language used to add styles (fonts, colors, spacing, etc.) to structured documents. CSS is a computer language used to add styles (fonts, colors, spacing, etc.) to structured documents. There are three ways to use CSS: inline style, internal style and external style.

JavaScript: JavaScript is a lightweight, interpreted or just-in-time compiled programming language with first-class features. JavaScript can hide and show HTML elements, JavaScript can change the value of HTML attributes, and can also change the content of HTML. JavaScript supports event-driven, functional and imperative programming styles. It has standard data structures for processing text, dates, regular expressions, etc.

Lab Exercise Answers

Task 1-4 Code output

```html
<!Doctype html>
<html>

    <head>
        <style>
            table,th,td {
                border: 1px solid black;
            }
            div {
                column-count: 2;
                column-rule-style: solid;
            }

        </style>
        <title>THis is my first web page</title>
    </head>
    <body style="background-color:powderblue;">
        <h1 style="color:purple">
            NBA super stars
        </h1>
        <p style="color:yellow">
            Super scorer
        </p>
        <table style="width:100%">
            <tr>
```

```html
26          <td></td>
27          <th>Kobe Bryant</th>
28          <th>Michael Jordan</th>
29          <th>LeBron James</th>
30          <th>Allen Iverson</th>
31        </tr>
32        <td></td>
33        <td>
34          <center><img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTydVR-Ba-IGAElwXm45FZnj
    QMNU5wiz14tuw&usqp=CAU"></center>
35        </td>
36        <td>
37          <center><img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRCT11yRixK7rjErBDqYL8q2
    HLH2bb5xb3DiA&usqp=CAU"></center>
38        </td>
39        <td>
40          <center><img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcR3li-VlBXmasrAQKEjhohRD
    Bs2BMKEJiBu5Q&usqp=CAU"></center>
41        </td>
42        <td>
43          <center><img src="data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAoHCBQVFBcUFBQYFxcZGh
44        </td>
45        <tr>
46          <th>Highest score in a single game</th>
47          <th>81</th>
48          <th>69</th>
49          <th>61</th>
50          <th>60</th>
51        </tr>
52      </table>
53  <B>
54    Your favorate player:
55  </B>
56  <input type="radio" name="Player" value="Kobe Bryant">Kobe Bryant
57  <input type="radio" name="Player" value="Michael Jordan">Michael Jordan
58  <input type="radio" name="Player" value="LeBron James">Lebron James
59  <input type="radio" name="Player" value="Allen Iverson">Allen Iverson
60  <h2>
61  My favorate player!
62  </h2>
63  <div>
64    Bryant has a superior ability to score, comprehensive way to attack the United States and picturesque s
    hots, he is a very entertaining basketball superstar Kobe is very hard hard figures, but truly, his eff
    orts brought him great Success. He is the most outstanding basketball player in the 21st century
65  </div>
66  <br>
67  <b>
68    Kobe's Skill:
69  </b>
70  <input type="checkbox" name="Skill" value="Turn around jumper">Turn around jumper
71  <input type="checkbox" name="Skill" value="Crossover">Corssover
72  <input type="checkbox" name="Skill" value="double pump">double pump
73  <form action="/action_page.php">
74    <label for="fname">add more skills:</label><br>
75    <input type="text" id="fname" name="fname"><br><br>
76    <input type="submit" value="Submit">
77  </form>
78  <p id="score">Highest score in a sigle game</p>
79    <button type="button"
80  onclick="document.getElementById('demo').innerHTML = Date()">
81  Date and Time.</button>
82
83  <p id="demo"></p>
84  <h4>
85  Read more about Kobe
86  </h4>
87  <p><a href="https://www.lamag.com/mag-features/kobe-bryant-the-player/">Kobe</a></p>
88  <p><a href="https://en.wikipedia.org/wiki/Kobe_Bryant">Google</a></p>
89
90  </body>
91  <script>
92  var a = 81;
```
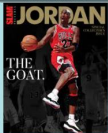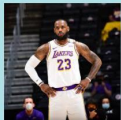
```
 93  <script>
 94    var  a = 81;
 95    var  b = 69;
 96    var  c = 61;
 97    var  d = 60;
 98    var  sum = a + b + c + d ;
 99    var  avg = sum/4;
100    document.getElementById("score").innerHTML = "The 4 highest score in a sigle game are: " + a + ", " + b +
       ", " + c + " and, " + d + ", the average score is: " + avg
101    </script>
102
103  <div id = 'app'>
104  <h5>{{ title }}</h5>
105  <div v-for="item in todoList">
106      <input class="check-list" type="checkbox" v-on:change="checkItem(item)" v-bind:checked="item.checked"/>
107      <del v-if="item.checked"> {{item.text}}</del>
108      <span v-else>{{item.text}}</span>
109  </div>
110  </div>
111  <script src="https://cdn.jsdelivr.net/npm/vue@2/dist/vue.js"></script>
112  <script>
113    var  app = new Vue({
114    el: "#app",
115    data() {
116      return {
117          title:"Todo List:",
```

```
118          todoList:[
119              { id: 0, text: 'Assignment 1: Project' ,checked : true},
120              { id: 1, text: 'Assignment 2: Project and PPT', checked: false },
121              { id: 2, text: 'Assignment 3: Portfolio', checked: false },
122              { id: 3, text: 'Study Vue', checked: false }
123          ]
124      }
125    },
126    methods:{
127      checkItem(item){
128          item.checked = !item.checked
129      }
130    }
131  });
132  </script>
133
134  </html>
```

Task 1-4 Webpage Screenshot

Reflection:

For each task, the most challenging was work with Vue, I spent time on Vue long time. I read many tutorials and examples to understand how to do this. In addition, because I enrolled course in the end of week 1, I must acquire new knowledge and content in a

short time.