



Calculator and Text Editor

Task - 2



Calculator and Text Editor

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Task - 2

Create various Front End Programs

- Draw and design a uniform front end code for calculator
- Draw and design a interactive front end code for text-editor

Evaluation Metric:

- 100% Completion of the above tasks

Learning Outcome

- Get to know about concepts of project bucketing
- Knowing about various frontend development framework like angular, vue,react
- Know about various react topics like components, props, state, life cycle etc.

Step-Wise Description

Step 1: Start with creating a basic HTML page.

Step 2: Add the HTML elements and attributes necessary for creating the form elements.

Step 3: Add the text boxes and buttons for the calculator.

Step 4: Create a function for the calculator that will take the input from the text boxes and perform the desired calculations.

Step 5: Add a JavaScript code to the HTML page that will execute the calculator function when the buttons are clicked

.Step 6: Test the calculator to ensure it is working as expected.

Calculator code :

```
1  <!DOCTYPE html>
2  <html>
3
4  <head>
5      <script src=
6          integrity=
7          crossorigin="anonymous"
8          referrerpolicy="no-referrer"></script>
9      <script src=
10         integrity=
11         crossorigin="anonymous"
12         referrerpolicy="no-referrer"></script>
13      <!-- for styling -->
14      <style>
15          table {
16              border: 1px solid black;
17              margin-left: auto;
18              margin-right: auto;
19          }
20
21          input[type="button"] {
22              width: 100%;
23              padding: 20px 40px;
24              background-color: green;
25              color: white;
26              font-size: 24px;
27              font-weight: bold;
28              border: none;
29              border-radius: 5px;
30          }
31
32          input[type="text"] {
```

```
32         input[type="text"] {
33             padding: 20px 30px;
34             font-size: 24px;
35             font-weight: bold;
36             border: none;
37             border-radius: 5px;
38             border: 2px solid black;
39         }
40     </style>
41 </head>
42 <!-- create table -->
43
44 <body>
45     <table id="calcu">
46         <tr>
47             <td colspan="3"><input type="text" id="result"></td>
48             <!-- clr() function will call clr to clear all value -->
49             <td><input type="button" value="c" onclick="clr()" /> </td>
50         </tr>
51         <tr>
52             <!-- create button and assign value to each button -->
53             <!-- dis("1") will call function dis to display value -->
54             <td><input type="button" value="1" onclick="dis('1')"
55                 onkeydown="myFunction(event)"> </td>
56             <td><input type="button" value="2" onclick="dis('2')"
57                 onkeydown="myFunction(event)"> </td>
58             <td><input type="button" value="3" onclick="dis('3')"
59                 onkeydown="myFunction(event)"> </td>
60             <td><input type="button" value="/" onclick="dis('/')"
61                 onkeydown="myFunction(event)"> </td>
62         </tr>
63         <tr>
64             <td><input type="button" value="4" onclick="dis('4')"
```

```
63     <tr>
64         <td><input type="button" value="4" onclick="dis('4')"
65             onkeydown="myFunction(event)"> </td>
66         <td><input type="button" value="5" onclick="dis('5')"
67             onkeydown="myFunction(event)"> </td>
68         <td><input type="button" value="6" onclick="dis('6')"
69             onkeydown="myFunction(event)"> </td>
70         <td><input type="button" value="*" onclick="dis('*')"
71             onkeydown="myFunction(event)"> </td>
72     </tr>
73     <tr>
74         <td><input type="button" value="7" onclick="dis('7')"
75             onkeydown="myFunction(event)"> </td>
76         <td><input type="button" value="8" onclick="dis('8')"
77             onkeydown="myFunction(event)"> </td>
78         <td><input type="button" value="9" onclick="dis('9')"
79             onkeydown="myFunction(event)"> </td>
80         <td><input type="button" value="-" onclick="dis('-')"
81             onkeydown="myFunction(event)"> </td>
82     </tr>
83     <tr>
84         <td><input type="button" value="0" onclick="dis('0')"
85             onkeydown="myFunction(event)"> </td>
86         <td><input type="button" value="." onclick="dis('.')"
87             onkeydown="myFunction(event)"> </td>
88         <!-- solve function call function solve to evaluate value -->
89         <td><input type="button" value="=" onclick="solve()"> </td>
90
91         <td><input type="button" value="+" onclick="dis('+')"
92             onkeydown="myFunction(event)"> </td>
93     </tr>
94 </table>
```

```
92         onkeydown="myFunction(event)"> </td>
93     </tr>
94 </table>
95
96 <script>
97     // Function that display value
98     function dis(val) {
99         document.getElementById("result").value += val
100     }
101
102     function myFunction(event) {
103         if (event.key == '0' || event.key == '1'
104             || event.key == '2' || event.key == '3'
105             || event.key == '4' || event.key == '5'
106             || event.key == '6' || event.key == '7'
107             || event.key == '8' || event.key == '9'
108             || event.key == '+' || event.key == '-'
109             || event.key == '*' || event.key == '/')
110             document.getElementById("result").value += event.key;
111     }
112
113     var cal = document.getElementById("calcu");
114     cal.onkeyup = function (event) {
115         if (event.keyCode === 13) {
116             console.log("Enter");
117             let x = document.getElementById("result").value
118             console.log(x);
119             solve();
120         }
121     }
122
123     // Function that evaluates the digit and return result
124     function solve() {
```



```
124         function solve() {
125             let x = document.getElementById("result").value
126             let y = math.evaluate(x)
127             document.getElementById("result").value = y
128         }
129
130         // Function that clear the display
131         function clr() {
132             document.getElementById("result").value = ""
133         }
134     </script>
135 </body>
136
137 </html>
```

Output:

25			c
1	2	3	/
4	5	6	*
7	8	9	-
0	.	=	+

Text Editor:

```
1 <!DOCTYPE html>
2
3 <html lang="en" dir="ltr">
4
5
6
7 <head>
8
9     <meta charset="utf-8">
10
11     <title>Text Editor</title>
12
13     <!--Bootstrap Cdn -->
14
15     <link rel="stylesheet"
16
17         href=
18
19         integrity=
20
21         crossorigin="anonymous">
22
23     <!-- fontawesome cdn For Icons -->
24
25     <link rel="stylesheet"
26
27         href=
28
29         integrity=
30
31         crossorigin="anonymous" />
```

```
32
33 <link rel="stylesheet"
34
35     href=
36
37
38     integrity=
39
40     crossorigin="anonymous" />
41
42
43
44
45 <!--Internal CSS start-->
46
47 <style>
48
49     h1 {
50
51         padding-top: 40px;
52
53         padding-bottom: 40px;
54
55         text-align: center;
56
57         color: #957dad;
58
59         font-family: 'Montserrat', sans-serif;
60
61     }
```

```
64     section {
```

```
65         padding: 5%;
```

```
66         padding-top: 0;
```

```
67         height: 100vh;
```

```
68     }
```

```
69     .side {
```

```
70         margin-left: 0;
```

```
71     }
```

```
72     button {
```

```
73         margin: 10px;
```

```
74         border-color: #957dad !important;
```

```
75         color: #888888 !important;
```

```
76         margin-bottom: 25px;
```

```
77     }
```

```
94
95     }
96
97
98
99     button:hover {
100
101         background-color: #fec8d8 !important;
102
103     }
104
105
106
107     textarea {
108
109         padding: 3%;
110
111         border-color: #957dad;
112
113         border-width: thick;
114
115     }
116
117
118
119     .flex-box {
120
121         display: flex;
122
123         justify-content: center;
124
125     }
126
```

```
124     }
125 }
126
127 </style>
128
129 <!--Internal CSS End-->
130
131 </head>
132 <!--Body start-->
133
134
135
136 <body>
137
138   <section class="">
139
140     <h1 class="shadow-sm">TEXT EDITOR</h1>
141
142     <div class="flex-box">
143
144       <div class="row">
145
146         <div class="col">
147
148           <!-- Adding different buttons for
149
150             different functionality-->
151
152           <!--onclick attribute is added to give
153
154             button a work to do when it is clicked-->
155
156           <button type="button"
```

```
154         Button a work to do when it is clicked-->
155
156         <button type="button"
157
158             onclick="f1()"
159
160             class=" shadow-sm btn btn-outline-secondary"
161
162             data-toggle="tooltip"
163
164             data-placement="top"
165
166             title="Bold Text">
167
168     Bold</button>
169
170     <button type="button"
171
172         onclick="f2()"
173
174         class="shadow-sm btn btn-outline-success"
175
176         data-toggle="tooltip"
177
178         data-placement="top"
179
180         title="Italic Text">
181
182     Italic</button>
183
184     <button type="button"
185
186         onclick="f3()"
```



```
184         <button type="button"
185
186             onclick="f3()"
187
188             class=" shadow-sm btn btn-outline-primary"
189
190             data-toggle="tooltip"
191
192             data-placement="top"
193
194             title="Left Align">
195
196     <i class="fas fa-align-left"></i></button>
197
198     <button type="button"
199
200         onclick="f4()"
201
202         class="btn shadow-sm btn-outline-secondary"
203
204         data-toggle="tooltip"
205
206         data-placement="top"
207
208         title="Center Align">
209
210     <i class="fas fa-align-center"></i></button>
211
212     <button type="button"
213
214         onclick="f5()"
215
216         class="btn shadow-sm btn-outline-primary"
```

```
214         onclick="f5()"
215
216         class="btn shadow-sm btn-outline-primary"
217
218         data-toggle="tooltip"
219
220         data-placement="top"
221
222         title="Right Align">
223
224 <i class="fas fa-align-right"></i></button>
225
226 <button type="button"
227
228         onclick="f6()"
229
230         class="btn shadow-sm btn-outline-secondary"
231
232         data-toggle="tooltip"
233
234         data-placement="top"
235
236         title="Uppercase Text">
237
238 Upper Case</button>
239
240 <button type="button"
241
242         onclick="f7()"
243
244         class="btn shadow-sm btn-outline-primary"
245
246         data-toggle="tooltip"
```

```
244         class="btn shadow-sm btn-outline-primary"
245
246         data-toggle="tooltip"
247
248         data-placement="top"
249
250         title="Lowercase Text">
251
252     Lower Case</button>
253
254     <button type="button"
255
256         onclick="f8()"
257
258         class="btn shadow-sm btn-outline-primary"
259
260         data-toggle="tooltip"
261
262         data-placement="top"
263
264         title="Capitalize Text">
265
266     Capitalize</button>
267
268     <button type="button"
269
270         onclick="f9()"
271
272         class="btn shadow-sm btn-outline-primary side"
273
274         data-toggle="tooltip"
275
276         data-placement="top"
```

```
274         data-toggle="tooltip"
275
276         data-placement="top"
277
278         title="Tooltip on top">
279
280     Clear Text</button>
281
282     </div>
283
284 </div>
285
286 </div>
287
288 <br>
289
290 <div class="row">
291
292     <div class="col-md-3 col-sm-3">
293
294     </div>
295
296     <div class="col-md-6 col-sm-9">
297
298         <div class="flex-box">
299
300             <textarea id="textarea1"
301
302                 class="input shadow"
303
304                 name="name"
305
306                 rows="15"
```

```
306         rows= 10
307
308         cols="100"
309
310         placeholder="Your text here ">
311
312     </textarea>
313
314 </div>
315
316 </div>
317
318 <div class="col-md-3">
319
320 </div>
321
322 </div>
323
324 </section>
325
326 <br>
327
328 <br>
329
330 <h6 style="text-align:center;">Priyansh Jha 2021.</h6>
331
332
333
334 <!--External JavaScript file-->
335
336 <script src="home.js"></script>
337
338 </body>
```

```
310         placeholder="Your text here ">
311
312     </textarea>
313
314 </div>
315
316 </div>
317
318 <div class="col-md-3">
319
320 </div>
321
322 </div>
323
324 </section>
325
326 <br>
327
328 <br>
329
330 <h6 style="text-align:center;">Priyansh Jha 2021.</h6>
331
332
333
334 <!--External JavaScript file-->
335
336 <script src="home.js"></script>
337
338 </body>
339
340
341
342 </html>
```

Output:

TEXT EDITOR

Bold

Italic

—

—

—

Upper Case

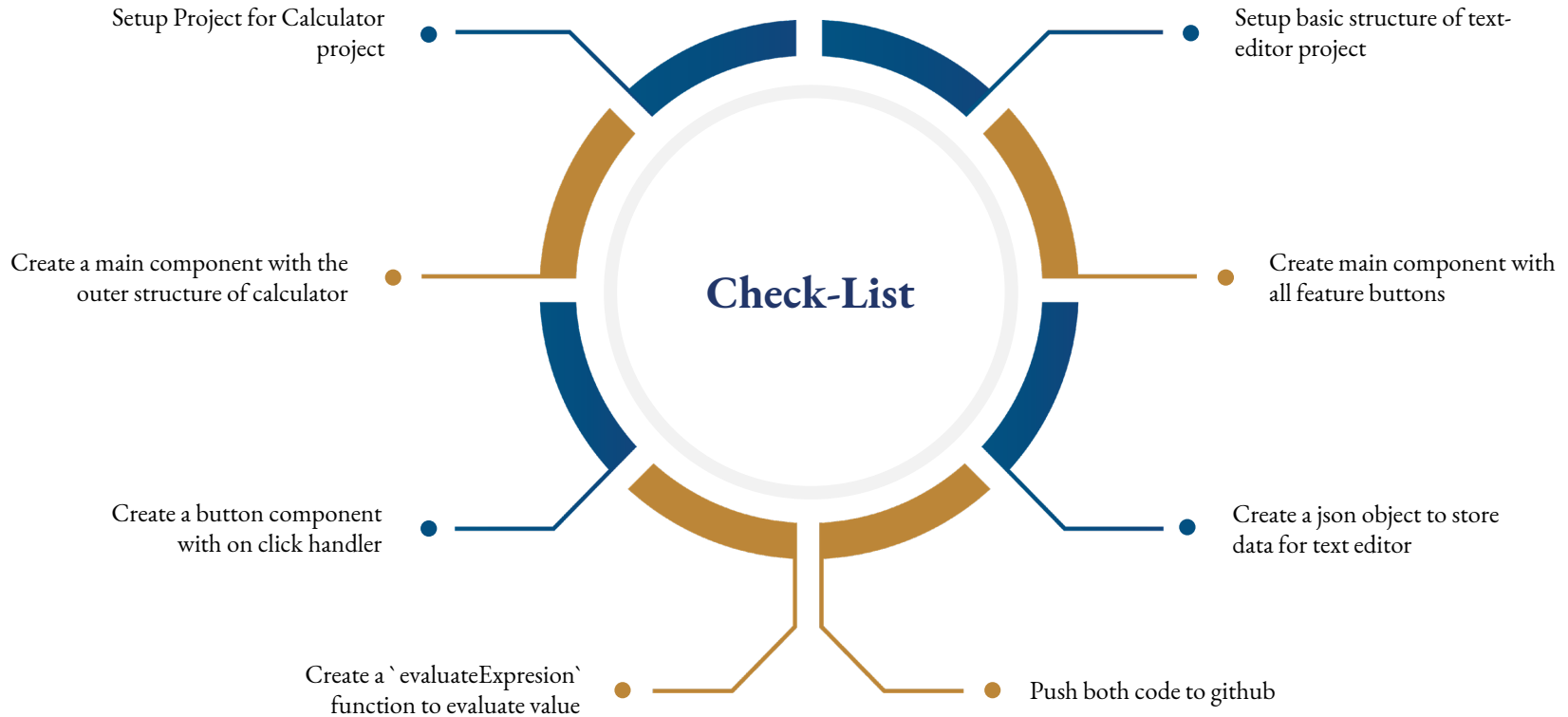
Lower Case

Capitalize

Clear Text

Deepak L

Assessment Parameter



Submission Github



https://github.com/Aravind-1433/Group_A53_7

Thank
you!

