



TASK - 2



FRONT END PROGRAMS FOR 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.

1. HTML CODE FOR CALCULATOR

```
<div class="calculator">
<div class="screen">
  <input type="text" id="result" readonly>
</div>
<div class="buttons">
  <button onclick="clearScreen()">C</button>
<button onclick="backspace()">CE</button>
<button onclick="append('+')">+</button>
  <button onclick="append('-')">-</button>
  <button onclick="append('*')">*</button>
  <button onclick="append('/')">/</button>
<button onclick="calculate()">=</button>
  <button onclick="append('7')">7</button>
  <button onclick="append('8')">8</button>
  <button onclick="append('9')">9</button>
  <button onclick="append('4')">4</button>
  <button onclick="append('5')">5</button>
  <button onclick="append('6')">6</button>
  <button onclick="append('1')">1</button>
  <button onclick="append('2')">2</button>
  <button onclick="append('3')">3</button>
  <button onclick="append('0')">0</button>
  <button onclick="append('.')">.</button>
</div>
</div>
```



CSS CODE FOR CALCULATOR

```
.calculator {  
  margin: 50px auto;  
  border: 1px solid #ccc;  
  width: 300px;  
  border-radius: 10px;  
  box-shadow: 0 0 10px #ccc;  
  overflow: hidden;  
  font-family: Arial, sans-serif;  
}  
.screen {  
  padding: 10px;  
  background-color: #f5f5f5;  
  text-align: right;  
}  
.buttons {  
  display: grid;  
  grid-template-columns: repeat(4, 1fr);  
  grid-gap: 5px;  
  padding: 10px;  
  background-color: #fff;  
} button { padding: 10px; border: none; border-radius: 5px;  
  font-size: 1.2em; cursor: pointer; background-color:  
  #f5f5f5; transition: all 0.3s;  
}  
button:hover {  
  background-color: #e5e5e5;  
}
```



JAVA SCRIPT CODE FOPR CALCULATOR

```
function clearScreen() {  
    document.getElementById("result").value = "";  
}  
function backspace() {  
    let result = document.getElementById("result").value;  
    document.getElementById("result").value =  
        result.substring(0, result.length - 1);  
}  
function append(value) {  
    document.getElementById("result").value += value;  
}  
function calculate() {  
    let result =  
        eval(document.getElementById("result").value);  
    document.getElementById("result").value = result;  
}
```



2. HTML CODE FOR TEXT EDITOR

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Text Editor</title>
    <link rel="stylesheet"
      href="style.css">
  </head>
  <body>
    <div id="editor"
      contenteditable="true"></div>
    <button id="bold">Bold</button>
    <button id="italic">Italic</button>
    <button
      id="underline">Underline</button>
    <script src="script.js"></script>
  </body>
</html>
```



CSS CODE FOR TEXT EDITOR

```
#editor {  
  border: 1px solid black;  
  height: 300px;  
  padding: 10px;  
  font-size: 16px;  
}
```

```
button {  
  margin: 10px;  
  padding: 5px 10px;  
  font-size: 16px;  
}
```



JAVA SCRIPT CODE FOR TEXT EDITOR

```
const editor = document.getElementById("editor");  
const boldButton = document.getElementById("bold");  
const italicButton = document.getElementById("italic");  
const underlineButton = document.getElementById("underline");
```

```
boldButton.addEventListener("click", () => {  
  document.execCommand("bold", false, null);  
});
```

```
italicButton.addEventListener("click", () => {  
  document.execCommand("italic", false, null);  
});
```

```
underlineButton.addEventListener("click", () => {  
  document.execCommand("underline", false, null);  
});
```



Step-Wise Description

Calculator:

- ✓ *Create an HTML file with a form that includes the calculator inputs (numbers and operators) and a display field for the result.*
- ✓ *Style the HTML form with CSS to make it visually appealing and easy to use.*
- ✓ *Add JavaScript code to handle the calculator logic, including reading the user inputs, performing the calculation, and displaying the result.*
- ✓ *Bind the JavaScript code to the HTML form using event listeners, so that the calculator responds to user input in real time.*
- ✓ *Test the calculator thoroughly to make sure it works correctly and handles edge cases.*

Text Editor:

- ✓ **Create an HTML file with a textarea element where users can type text.**
- ✓ **Style the HTML textarea with CSS to make it visually appealing and easy to use.**
- ✓ **Add JavaScript code to handle text editing features, such as bold, italic, and underline formatting, as well as undo and redo functionality.**
- ✓ **Bind the JavaScript code to the HTML textarea using event listeners, so that the text editor responds to user input in real time.**
- ✓ **Add additional features as desired, such as the ability to save and load text files.**
- ✓ **Test the text editor thoroughly to make sure it works correctly and handles edge cases.**

SUMMARY

For a calculator:

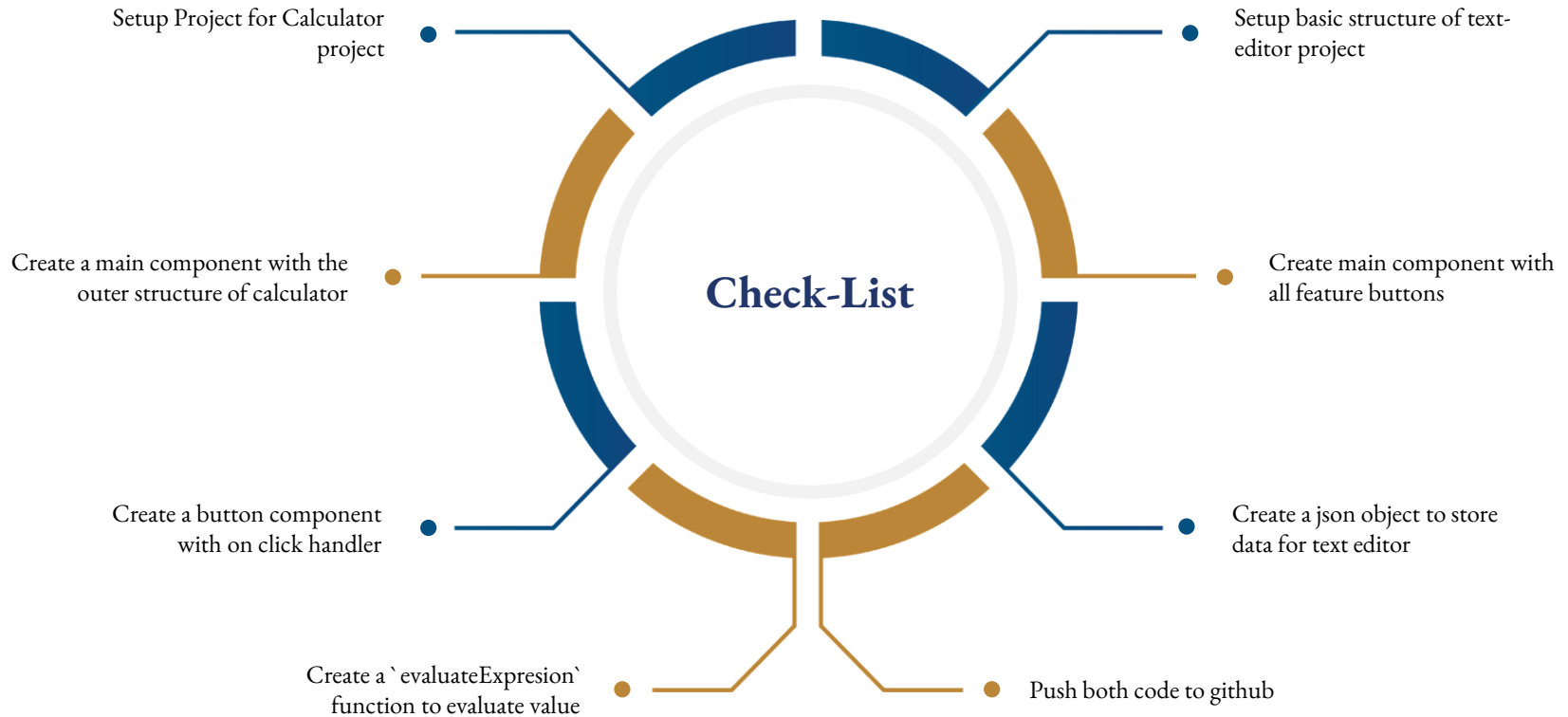
- Create an HTML form with inputs and display field for the result.
- Style the form with CSS.
- Add JavaScript code to handle the calculator logic.
- Bind the JavaScript code to the HTML form using event listeners.
- Test the calculator thoroughly.

For a text editor:

- Create an HTML text area for text input.
- Style the text area with CSS.
- Add JavaScript code to handle text editing features.
- Bind the JavaScript code to the HTML text area using event listeners.
- Add additional features, such as file saving and loading, if desired.
- Test the text editor thoroughly.



Assessment Parameter



Submission Github



https://github.com/dhivyadharshini112/Group_A53_-2-

Thank
you!

