

## Experiment 2.1

### Live Character Counter for Text area

#### Code

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Live Character Counter</title>
<style>
body {
font-family: Arial, sans-serif;
background-color: #f0f2f5;
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
margin: 0;
}
.container {
width: 90%;
max-width: 500px;
background: #fff;
padding: 25px;
border-radius: 8px;
box-shadow: 0 4px 12px rgba(0,0,0,0.1);
}
h2 {
margin-top: 0;
color: #333;
}
textarea {
width: 100%;
height: 120px;
padding: 10px;
border: 1px solid #ccc;
border-radius: 4px;
resize: vertical; /* Allows vertical resizing */
font-size: 1rem;
box-sizing: border-box; /* Ensures padding is included in width */
}
#counterContainer {
text-align: right;
color: #555;
margin-top: 8px;
font-size: 0.9rem;
}
#counterContainer.warning {
color: #d93025; /* Red color for warning */
font-weight: bold;
}

</style>
</head>
```

```
<body>

<div class="container">
  <h2>Tweet Something (Max 280)</h2>
  <textarea id="myTextarea" maxlength="280" placeholder="What's happening?"></textarea>
  <div id="counterContainer">
    <span id="currentChar">0</span> / 280
  </div>
</div>

<script>
const textarea = document.getElementById('myTextarea');
const currentCharCounter = document.getElementById('currentChar');
const counterContainer = document.getElementById('counterContainer');
const maxLength = textarea.getAttribute('maxlength');

textarea.addEventListener('input', () => {
  const currentLength = textarea.value.length;
  currentCharCounter.textContent = currentLength;

  // Add a visual warning when approaching or exceeding the limit
  if (currentLength >= maxLength) {
    counterContainer.classList.add('warning');
  } else {
    counterContainer.classList.remove('warning');
  }
});
</script>

</body>
</html>
```

## Outputs

### Experiment 2.1



The image shows a light gray rectangular area containing a white rounded rectangle. Inside the white rectangle, the text "Tweet Something (Max 280)" is displayed in bold. Below this is a text input field with the text "Hello, I am Gaganpreet Singh". At the bottom right of the input field, there is a small icon of a pen. Below the input field, the text "28 / 280" is displayed.

*Figure 1 exp2.1 output*