

```
<!DOCTYPE html>
<html lang="en">
<head>
    <!-- Set character set and viewport for responsive design
-->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <title>Toggle M2</title>

    <!-- Styling for the page -->
    <style>
        body {
            display: flex;
            flex-direction: column;
            align-items: center;
            justify-content: center;
            height: 100vh;
            margin: 0;
        }

        #toggleButton {
            /* Styling for the toggle button */
            background-color: #4169e1; /* Royal blue color */
            color: white;
            padding: 10px 20px;
            font-size: inherit;
            text-align: center;
            cursor: pointer;
            border: 1px solid #1e90ff; /* Slightly lighter
border color */
            border-radius: 5px; /* Add border radius for curved
edges */
        }

        #statusText {
```

```
        /* Styling for the status text */
        text-align: center;
    }

```

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</style>
```

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</head>
```

```
<body>
```

```
<!-- Button to toggle M2 with a loading state -->
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```
<button id="toggleButton"
onclick="toggleM2()">Loading...</button>
```

```
<!-- Status text to display the current state or any errors -->
```

```
<p id="statusText">Fetching data...</p>
```

```
<!-- JavaScript code for the functionality -->
```

```
<script>
```

```
    // Function to toggle the state of M2
    function toggleM2() {
        var button = document.getElementById("toggleButton");
        var statusText = document.getElementById("statusText");

        // Fetch the current value from Thingspeak

```

```
fetch("https://api.thingspeak.com/channels/2384399/fields/6/last
.txt?api_key=3D8NH4JCI0EDYMIU")
    .then(response => {
        if (!response.ok) {
            throw new Error('Network response was not
ok');
        }
        return response.text();
    })
    .then(value => {
        if (value.trim() === '255') {
            // M2 is currently ON
            button.innerHTML = "Turn M2 OFF";

```

```
        statusText.innerHTML = "M2 is ON";
        button.onclick = function() {

executeAPI("https://api.thingspeak.com/update?api_key=ELW2NF5Q83
OGB39G&field6=0");
    };

} else if (value.trim() === '0') {
    // M2 is currently OFF
    button.innerHTML = "Turn M2 ON";
    statusText.innerHTML = "M2 is OFF";
    button.onclick = function() {

executeAPI("https://api.thingspeak.com/update?api_key=ELW2NF5Q83
OGB39G&field6=255");
    };
} else {
    throw new Error('Invalid response from
Thingspeak');
}
}

).catch(error => {
    console.error('Error fetching data from
Thingspeak:', error);
    button.innerHTML = "Error";
    statusText.innerHTML = "Error fetching data";
}) ;

}

// Function to execute an API request
function executeAPI(apiUrl) {
    // Make API request
    fetch(apiUrl)
        .then(response => {
            if (!response.ok) {
                throw new Error('Network response was not
ok');
            }
        })
        .catch(error => {
            console.error('Error executing API request:', error);
        });
}


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        }
        return response.json();
    })
    .then(data => {
        console.log('API Response:', data);
        // After successful execution, toggle the button
state
        toggleM2();
    })
    .catch(error => console.error('Error making API
request:', error));
}

// Initialize the button state on page load
toggleM2();

// Update the status every second
setInterval(toggleM2, 1000);
</script>

</body>
</html>

```

Output:

