## Meter.html

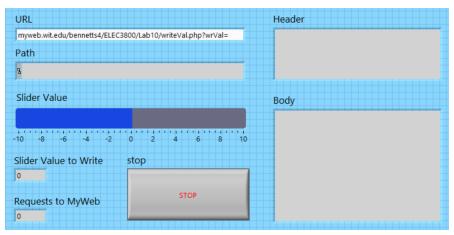
```
1 <!DOCTYPE html>
 2 - <html>
 3 < \head>
       <title>Sensor Value</title>
 5 </head>
 6 < <body>
 7
       <h1>Sensor Value</h1>
 8 -
       <meter id="meterBar" value="0" min="-10" max="10"</pre>
 9
       style="height:50px; width:300px">Meter Value</meter>
10
       Sensor Value is <span id="sensorValTxt"> 0 </span>
11
12
       <script src="Lab10 Meter Bennett.js"></script>
13 </body>
14 </html>
```

## Lab10\_Meter\_Bennett.js

```
1 // Global Variables
 var URL_strg = "http://myweb.wit.edu/bennetts4/ELEC3800/Lab10/readVal.php";
 3 var timerDuration = 10; // How long to wait before refresh value (in ms)
 4 var intervalTimer; // handle pointer to timer
 6 // HTML DOM Element Variables
 7 var meterBar;
 8 var sensorValTxt;
10 // Functions
11 function init(){
meterBar = document.getElementById("meterBar");
       sensorValTxt = document.getElementById("sensorValTxt");
       // Call doHttpRequestForSensorVal after every timerDuration number of ms
       intervalTimer = setInterval( doHttpRequestForSensorVal, timerDuration );
15
16 }
17
18 function doHttpRequestForSensorVal (){
       console.log("Timer done. Callback function called. Now prepare to send HTTP Get\n" );
       var reqW = new XMLHttpRequest(); // Make object to do this HTTP request
       reqW.onreadystatechange = cbHttpReqListenerGetSensorValAndDisplay;
       reqW.open("get", URL strg, true); // Open HTTP Get for URL strg
23
       reqW.send(); // Send HTTP Request
24 }
25
26 function cbHttpReqListenerGetSensorValAndDisplay () {
     // Wait until HTTP request is completed
27
28-
       if( (this.readyState == 4) ){
29
           console.log("HTTP request completed. Status is " + this.status );
30
           var newValAsStrg = findValueInResponseXML(this.responseText);
31
          var newSensorVal = Number( newValAsStrg );
          console.log(" New Sensor Value is " + newSensorVal );
32
33
           meterBar.value = newSensorVal;
34
          sensorValTxt.innerHTML = newValAsStrg;
      }
35
36 }
37
```

```
38 function findValueInResponseXML(msg){
39     var sV0 = "<Value>";
40     var sV1 = "</Value>";
41     return( msg.slice( (msg.indexOf(sV0)) + (sV0.length), msg.indexOf(sV1) ) );
42 }
43     // Function Calls
45 window.onload = init;
```

## Front Panel



## **Block Diagram**

