

Proof of Concept

We have created a proof of concept using Azure Function Apps, and Bootstrap to perform a similar function to what we are requesting from you. Please be aware, we are not committed to any of the technologies (Bootstrap, etc) referenced below:

Sample Azure Function App (not based upon our project, just an example):

We are opening a File Stream on an HTML document stored on the server, and read its contents into a string variable.

We read on POST data from the Http Request and save it to a string variable.

We replace a specific point in the HTML string with our JSON data variable.

This new string is returned in our Http Response as a string, of type "text/html"

```
using System.Net;
using System.Net.Http.Headers;
using System.Threading.Tasks;
using System.IO;
using System.Text;

public static HttpResponseMessage Run(HttpRequestMessage req, TraceWriter log)
{
    var response = new HttpResponseMessage(HttpStatusCode.OK);
    var stream = new FileStream(@"d:\home\site\wwwroot\HttpTrigger1\index.html", FileMode.Open, FileAccess.Read);
    var reader = new StreamReader(stream);
    var content = req.Content;

    string JsonContent = content.ReadAsStringAsync().Result;
    var html = reader.ReadToEnd().Replace("@jsondata", JsonContent);

    response.Content = new StringContent(html);
    response.Content.Headers.ContentType = new MediaTypeHeaderValue("text/html");

    return response;
}
```

HTML Template (references in code as index.html)

Here is the HTML template we created.

Note the placeholder we setup (@jsondata) which will be replaced procedurally through code.

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <script src="https://code.jquery.com/jquery.min.js"></script>
  <script src="https://netdna.bootstrapcdn.com/twitter-bootstrap/2.3.2/js/bootstrap.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-table/1.10.0/bootstrap-table.min.js"></script>
```

```

<link href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-table/1.10.0/bootstrap-table.min.css"
rel="stylesheet" type="text/css" />
<script type="text/javascript">
  $(document).ready(function () {
    var jsondata = [@jsondata];

    $('#table').bootstrapTable({
      data: jsondata
    });
  });
</script>
</head>
<body>
  <form id="form1" runat="server">
    <table id="table">
      <thead>
        <tr>
          <th data-field="id">ID</th>
          <th data-field="Name">Name</th>
          <th data-field="Address">Address</th>
        </tr>
      </thead>
    </table>
  </form>
</body>
</html>

```

Request Body

Here is an example of Body text we will include in the POST to our Function App.

```

{
  "id": "1",
  "Name": "JM",
  "Address": "Address1"
},
{
  "id": "2",
  "Name": "Josh",
  "Address": "Address2"
},
{
  "id": "3",
  "Name": "Tim",
  "Address": "Address3"
},
{
  "id": "4",
  "Name": "Bob",
  "Address": "Address4"
}

```

Response Text/HTML

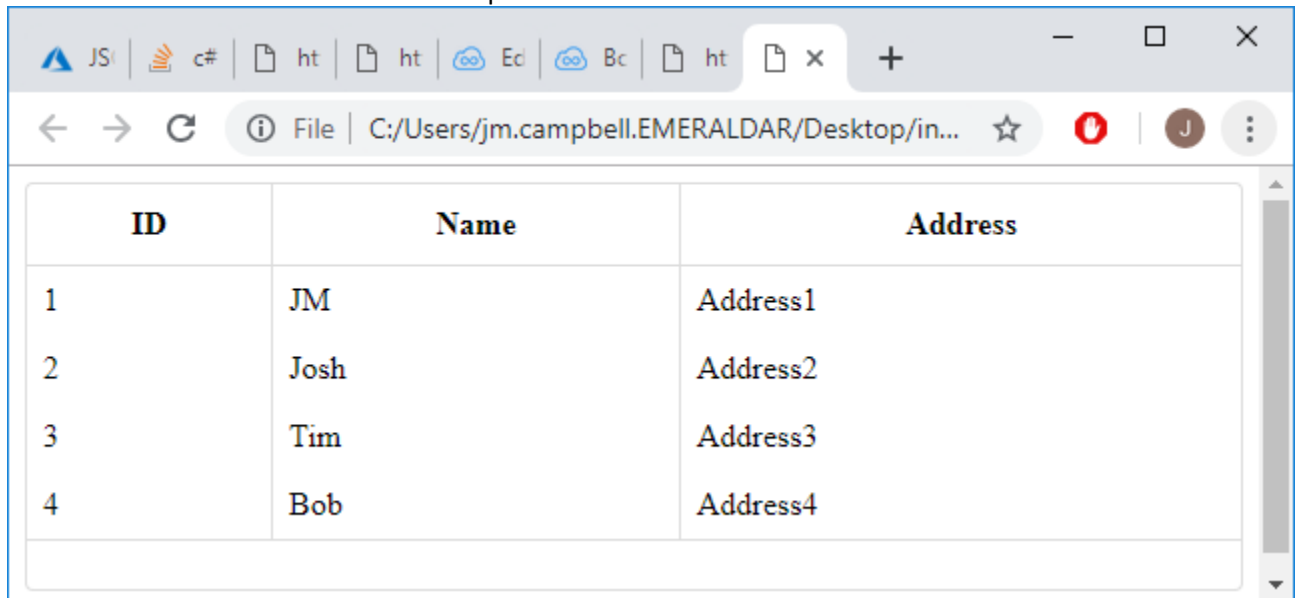
Here is an example of the HTML text our response delivers.

```
<html lang="en">
<head>
  <meta charset="UTF-8">
  <script src="https://code.jquery.com/jquery.min.js"></script>
  <script src="https://netdna.bootstrapcdn.com/twitter-
bootstrap/2.3.2/js/bootstrap.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-table/1.10.0/bootstrap-
table.min.js"></script>
  <link href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-table/1.10.0/bootstrap-table.min.css"
rel="stylesheet" type="text/css" />
  <script type="text/javascript">
    $(document).ready(function () {
      var jsondata = [{"id": "1", "Name": "JM", "Address": "Address1"}, {"id": "2", "Name":
"Josh", "Address": "Address2"}, {"id": "3", "Name": "Tim", "Address": "Address3"}, {"id": "4", "Name":
"Bob", "Address": "Address4"}];

      $('#table').bootstrapTable({
        data: jsondata
      });
    });
  </script>
</head>
<body>
  <form id="form1" runat="server">
    <table id="table">
      <thead>
        <tr>
          <th data-field="id">ID</th>
          <th data-field="Name">Name</th>
          <th data-field="Address">Address</th>
        </tr>
      </thead>
    </table>
  </form>
</body>
</html>
```

How to is rendered in browser

Here is how the browser renders the response.



The screenshot shows a web browser window with a single tab. The address bar displays a file path: C:/Users/jm.campbell.EMERALDAR/Desktop/in... The browser's content area displays a table with the following data:

ID	Name	Address
1	JM	Address1
2	Josh	Address2
3	Tim	Address3
4	Bob	Address4