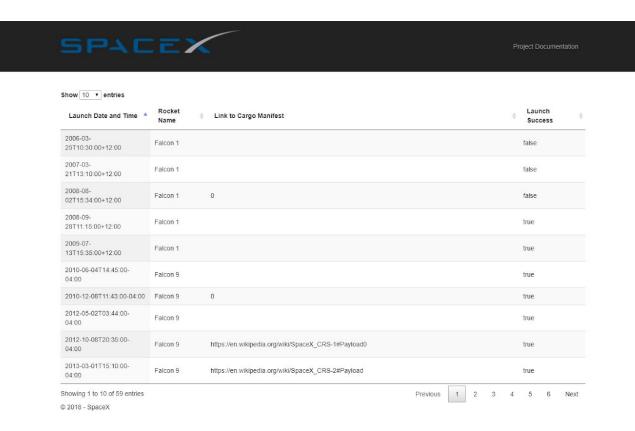# Project Requirements Overview

I was sent a project requirement to take information from the SpaceX Data API and display certain things from the API in a table or grid. On Thursday April 12th 2018 and finished at 11:45am on Sunday April 15th 2018.

SPACEX — Project Documentation

Show 10 ▼ entries

Launch Date and Time ▲	Rocket Name	Link to Cargo Manifest	Launch Success
2006-03-25T10:30:00+12:00	Falcon 1		false
2007-03-21T13:10:00+12:00	Falcon 1		false
2008-08-02T15:34:00+12:00	Falcon 1	0	false
2008-09-28T11:15:00+12:00	Falcon 1		true
2009-07-13T15:35:00+12:00	Falcon 1		true
2010-06-04T14:45:00-04:00	Falcon 9		true
2010-12-08T11:43:00-04:00	Falcon 9	0	true
2012-05-02T03:44:00-04:00	Falcon 9		true
2012-10-08T20:35:00-04:00	Falcon 9	https://en.wikipedia.org/wiki/SpaceX_CRS-1#Payload0	true
2013-03-01T15:10:00-04:00	Falcon 9	https://en.wikipedia.org/wiki/SpaceX_CRS-2#Payload	true

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About Me

My name is Austin Hammell, I always loved video games and doing things with computers as a kid. One summer my mother made me take a web developer class that took a big focus on Adobe Dreamweaver. I still believe this is where my passion for coding started. This resulted in me taking some introduction to Information Technology courses in high school that further proved my passion for IT. After graduating high school, I started messing around with some programs and eventually built my own computer towards the end of the summer. I attended the Full Stack Web Developer program at Centriq Training where I learned how to build Full Stack data driven web applications. I absolutely fell in love with coding and am super excited to start a career in the IT field.

Website Design and Functionality

Based on the project requirements I had no requirements for the look of the website. The only requirements given to me was the API functionality and to make sure it works in all browsers. Based on that, I wanted a simple layout which was created with a simple nav bar with the SpaceX logo and a link to the project documentation. Below the nav bar I created a table with datatables.net and plugged in the API functionality to fit within the datatable.

Code Samples

Original API functionality - I wanted to first create the functionality to grab the
information from the API and then make it look like it does. That became a problem when I
could not get my original code to work with Datatables.net. This was the original code I had
written.

```
50     //var uri = 'https://api.spacexdata.com/v2/launches';
51     //$.getJSON(uri).done(function (data) {
52     //    //document.getElementById('stuff').innerHTML = "<p>" + data.rocket.rocket_id + "</p>";
53     //    data.forEach(rocket => {
54     //        document.getElementById('stuff').innerHTML += "<tr>";
55     //        document.getElementById('stuff').innerHTML += "<td>" + rocket.launch_date_local + "</td>";
56     //        document.getElementById('stuff').innerHTML += "<td>" + rocket.rocket.rocket_name + "</td>";
57     //        //+ rocket.rocket.second_stage.payloads[0].cargo_manifest == null
58     //        //? "<p>No link to cargo manifest</p>" : "<a href='" + rocket.rocket.second_stage.payloads[0].cargo_manifest +
59     //        //"' target='_blank'>Link</a>" + "<h2>Was Launch a Success?</h2><p>" + rocket.launch_success + "</p></div>";
60     //        //var cargoManifest = rocket.rocket.second_stage.payloads[0].cargo_manifest.toString();
61     //        //if (rocket.rocket.second_stage.payloads[0].cargo_manifest == null) {
62     //        //    document.getElementById('stuff').innerHTML += "<p>No link to cargo manifest</p>";
63     //        //}
64     //        //else {
65     //        //    console.log('hi');
66     //        //    document.getElementById('stuff').innerHTML += "<a href='" + rocket.rocket.second_stage.payloads[0].cargo_manifest
67     //        //        "' target='_blank'>Link</a>";
68     //        //}
69     //        rocket.rocket.second_stage.payloads[0].cargo_manifest == null ? document.getElementById('stuff').innerHTML +=
70     //            "<td>No link to cargo manifest</td>" : document.getElementById('stuff').innerHTML += "<td><a href='" +
71     //            rocket.rocket.second_stage.payloads[0].cargo_manifest +
72     //            "' target='_blank'>Link</a></td>";
73     //        document.getElementById('stuff').innerHTML += "<td>" + rocket.launch_success + "</td>";
74     //        document.getElementById('stuff').innerHTML += "</tr>";
75     //    });
76     //});
77
78     //$(document).ready(function () {
79     //    $('#table_id').DataTable({
80     //    });
81     //});
82
```

Code Samples Cont.

Final API functionality with DataTables.net - After realizing that the original code I had written would not work with the DataTables.net Plugin, I looked through the plugins documentation to find out what I can use with the API. This code was the final code I had written.

Javascript -

```javascript
 83      (function ($) {
 84          var generateTable = $('#table_id')
 85              .dataTable({
 86                  "processing": true,
 87                  "ajax": {
 88                      "url": "https://api.spacexdata.com/v2/launches",
 89                      "dataSrc": ''
 90                  },
 91                  "columns": [
 92                      { "data": "launch_date_local" }, { "data": "rocket.rocket_name" },
 93                      { "data": "rocket.second_stage.payloads[0].cargo_manifest" }, { "data": "launch_success" }
 94                  ],
 95                  "language": {
 96                      "emptyTable": "There are no launches available",
 97                      "zeroRecords": "There were no launches available"
 98                  },
 99                  "searching": false,
100                  "paging": true,
101                  "ordering": true
102              });
103      })(jQuery);
```

Html5 -

```html
33  <table id="table_id" class="display">
34      <thead>
35          <tr>
36              <th>Launch Date and Time</th>
37              <th>Rocket Name</th>
38              <th>Link to Cargo Manifest</th>
39              <th>Launch Success</th>
40          </tr>
41      </thead>
42      <tbody id="stuff">
43
44      </tbody>
45  </table>
46
```