

jQuery

Brief Description

jQuery is a small JavaScript library that is feature-rich and allows for the developer to let HTML page traversal, manipulation, event handling, animation and Ajax a lot easier and faster to use. This API works across multiple browsing platforms and is an extremely versatile and extensive tool that has adapted the way developers have used and written JavaScript.

jQuery can be used in a multiple of ways:

- jQuery Hide and Show
- jQuery Sliding
- jQuery Animation

The w3schools website gives examples of how these would be used in a function.

https://www.w3schools.com/whatis/whatis_jquery.asp

How We Used jQuery

We as a team continuously used jQuery throughout the development of the tmpst website. An example of where we used this library is within the “QueryBuilder”, it is used to gather the data by pulling from the API.

Example from “_NewsQueryBuilder”:

```
$.ajax({
  type: "GET",
  url: requestUrl,
  dataType: "json",
  success: function (result) {
    $('#news-wizard-arrow-up').click().promise().done(function () {
      $('#news-card-container').fadeIn(300);
    });
  }
});
```

In plain text:

```
let requestUrl = 'https://newsapi.org/v2/top-headlines?country=' + countryDropdown +
'&category=' + categoryDropdown + '&language=en&apiKey=' + '@Model.App_Key';
```

```
$.ajax({
  type: "GET",
```

```
url: requestUrl,  
dataType: "json",  
success: function (result) {  
    $('#news-wizard-arrow-up').click().promise().done(function () {  
        $('#news-card-container').fadeIn(300);  
    });  
});
```

As a development team jQuery was the obvious choice as it is so easy to use and significantly reduced our development time, we used jQuery with complex element selection and event handling.

An example of how we used jQuery for event handling:

```
$.each(data.articles, function (key, val) {  
    //Concatenates text string together from sources  
    text = text + "" + val.title;  
});
```

In plain text:

```
$.each(data.articles, function (key, val) {  
    //Concatenates text string together from sources  
    text = text + "" + val.title;  
});
```

There is more information and examples provided by w3schools -

https://www.w3schools.com/jquery/jquery_ref_events.asp