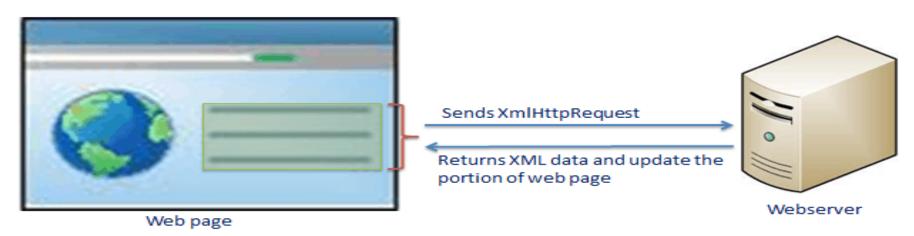
jQuery Ajax Introduction

- Ajax stands for "Asynchronous JavaScript and XML".
- JavaScript includes features of sending asynchronous http request using XMLHttpRequest object.
- Ajax is about using this ability of JavaScript to send asynchronous http request and get the **xml data or JSON** as a response (also in other formats) and update the part of a web page (using JavaScript) without reloading or refreshing entire web page.

Ajax functionality:



The jQuery library includes various methods to send Ajax requests.

Query Ajax Methods	Description
ajax()	Sends asynchronous http request to the server.
get()	Sends http GET request to load the data from the server.
Post()	Sends http POST request to submit or load the data to the server.
getJSON()	Sends http GET request to load JSON encoded data from the server.
getScript()	Sends http GET request to load the JavaScript file from the server and then executes it.
load()	Sends http request to load the html or text content from the server and add them to DOM element(s).

The jQuery library also includes following events which will be fired based on the state of the Ajax request.

jQuery Ajax Events	Description
ajaxComplete()	Register a handler function to be called when Ajax requests complete.
ajaxError()	Register a handler function to be called when Ajax requests complete with an error.
ajaxSend()	Register a handler function to be called before Ajax request is sent.
ajaxStart()	Register a handler function to be called when the first Ajax request begins.
ajaxStop()	Register a handler function to be called when all the Ajax requests have completed.
ajaxSuccess()	Register a handler function to be called when Ajax request completes successfully.

jQuery ajax() Method

The jQuery ajax() method provides core functionality of Ajax in jQuery. It sends asynchronous HTTP requests to the server.

```
$.ajax(url);
$.ajax(url,[options]);
```

Parameter description:

- url: A string URL to which you want to submit or retrieve the data
- options: Configuration options for Ajax request. An options
 parameter can be specified using JSON format. This parameter is
 optional.

Send Ajax Request

The ajax() methods performs asynchronous http request and gets the data from the server.

how to send a simple Ajax request.

```
Example: jQuery Ajax Request
```

```
$.ajax('/jquery/getdata', // request url
        success: function (data, status, xhr) {// success callback function
            $('p').append(data);
});
```

Visual Studio(Environment)

```
= <script>
31
           function BtnClick() {
                    url: "/Home/GetStudent",
                    method: "GET",
35
36
                    success: function (data) {
37
38
                    error: function (qrr) {
39
40
41
               })
42
43
       </script>
```

Data Using Ajax in MVC

```
= <head>
 9
           <meta name="viewport" content="width=device-width" />
10
           <title>Index</title>
11
           <script src="~/Scripts/jquery-3.3.1.js"></script>
12
13
       </head>
14
      Ė <body>
15
           (div)
16
17
                <h1>Hello from index</h1>
18
             <div>
19
                  <h2>Id</h2> - <h2 id="stdId"></h2>
20
                  <h2>Id</h2> - <h2 id="stdId"></h2>
21
                  <h2>Id</h2> - <h2 id="stdId"></h2>
22
23
             </div>
24
               <input type="button" onclick="BtnClick()" value="Click me" />
25
           </div>
26
```

```
18
19
            <div>
                 <h2>Id</h2> - <h2 id="stdId"></h2>
20
                 <h2>Name</h2> - <h2 id="stdName"></h2>
21
                 <h2>Email</h2> - <h2 id="stdEmail"></h2>
22
23
            </div>
24
               <input type="button" onclick="BtnClick()" value="Click me" />
25
           </div>
26
       </body>
27
       </html>
28
```

Note: Include – Jquery Library and Add to your Page Create a Ajax Method in <Script >

```
function BtnClick() {
               $.ajax({
35
36
```

```
<h2>Email</h2> - <h2 id="stdEmail"></h2>
                   </div>
24
                   <input type="button" onclick="BtnClick()" value="Click me" />
25
26
              </div>
27
         </body>
         </html>
28
29
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       E<script>
                             ▲ 1 of 2 ▼ ajax(settings: JQueryAjaxSettings): JQueryXHR
31
                                       Perform an asynchronous HTTP (Ajax) request.
              function Bt
32
                                       settings: A set of key/value pairs that configure the Ajax request. All settings are optional. A default can be set for a
33
                   $.ajax({
34
                        url: "/Home/GetStudent", I
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                   })
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         </script>
38
```

```
<h2>Email</h2> - <h2 id="stdEmail"></h2>
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                   </div>
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                   <input type="button" onclick="BtnClick()" value="Click me" />
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              </div>
27
         </body>
         </html>
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       E<script>
31
             function BtnClick() {
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33
                   $.ajax({
34
                       url: "/Home/GetStudent",
                       method: "GET", I
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                   })
                             ▲ 1 of 2 ▼ ajax(settings: JQueryAjaxSettings): JQueryXHR
                                      Perform an asynchronous HTTP (Ajax) request.
37
                                      settings: A set of key/value pairs that configure the Ajax request. All settings are optional. A default can be set fo
         </script>
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```

```
<h2>Email</h2> - <h2 id="stdEmail"></h2>
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               </div>
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               <input type="button" onclick="BtnClick()" value="Click me" />
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           </div>
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       </body>
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       </html>
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     31
           function BtnClick() {
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33
               $.ajax({
34
                   url: "/Home/GetStudent",
                   method: "GET",
35
                   success: function () { }
36
37
               })
38
       </script>
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```
<input type="button" onclick="BtnClick()" value="Click me" />
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           </div>
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       </body>
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       </html>
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     E<script>
31
           function BtnClick() {
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33
               $.ajax({
                   url: "/Home/GetStudent",
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35
                   method: "GET",
                   success: function (data) {
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                   error: function (qrr) {
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               })
42
43
       </script>
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```

```
<input type="button" onclick="BtnClick()" value="Click me" />
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           </div>
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       </body>
       </html>
28
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     <<cript>
31
           function BtnClick() {
32
               $.ajax({
33
34
                   url: "/Home/GetStudent",
35
                   method: "GET",
                   success: function (data) {
36
                       console.log(data);
37
38
                   error: function (err) {
39
                       console.error(err);
40
41
               })
42
43
       </script>
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```

```
</html>
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     ⊡<script>
31
32
           function BtnClick() {
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               $.ajax({
                   url: "/Home/GetStudent",
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                   method: "GET",
                   success: function (data) {
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37
                       console.log(data);
38
                   error: function (err) {
39
40
                       console.error(err);
41
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               })
43
       </script>
44
```

```
28
      </html>
29
30
     31
           function BtnClick() {
32
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               $.ajax({
34
                   url: "/Home/GetStudent",
35
                   method: "GET",
                   success: function (data) {
36
                       console.log(data);
37
38
                   },
39
                   error: function (err) {
                      [console.error(err);
40
41
               })
42
43
       </script>
44
```

Hello from index

Id

Name

Email

Click me



Hello from index

Id

7

Name

.

Email

Click me



{"Id":1,"Nume":"Nitish kaushik","fmail":"email@gmail.com"}

```
</html>
28
29
     <script>
30
31
           function BtnClick() {
32
               $.ajax({
33
                   url: "/Home/GetStudent",
34
                   method: "GET",
35
                   success: function (data) {
36
                        console.log(data);
37
                   },
38
39
                   error: function (err) {
                       rconsole.error(err);
40
41
               })
42
43
       </script>
44
```

```
<h2>Id</h2> - <h2 id="stdId"></h2>
20
                   <h2>Name</h2> - <h2 id="stdName"></h2>
21
                   <h2>Email</h2> - <h2 id="stdEmail"></h2>
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23
               </div>
24
               <input type="button" onclick="BtnClick()" value="Click me" />
25
26
           </div>
27
       </body>
       </html>
28
29
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      31
           function BtnClick() {
32
33
               $.ajax({
34
                   url: "/Home/GetStudent",
35
                   method: "GET",
36
                   success: function (data) {
37
                       console.log(data);
38
                       data = JSON.parse(data); I
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40
                       console.log(data);
41
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                   },
                   error: function (err) {
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                       console.error(err);
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               })
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```
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31
           function BtnClick() {
32
               $.ajax({
33
                    url: "/Home/GetStudent",
34
                    method: "GET",
35
                    success: function (data) {
36
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38
                        data = JSON.parse(data);
39
40
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                    },
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                    error: function (err) {
43
                        console.error(err);
44
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               })
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       </script>
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```

```
44
                   <input type="button" onclick="BtnClick()" value="Click me" />
   25
              </div>
   26
   27
           </body>
   28
          </html>
   29
   30
         =<script>
   31
               function BtnClick() {
   32
   33
                   $.ajax({
   34
                       url: "/Home/GetStudent",
                       method: "GET",
   35
                       success: function (data) {
   36
   37
   38
   39
                           data = JSON.parse(data);
   40
                           $("#stdId").text(data.Id);
   41
                           $("#stdName").text(data.Name);
   42
                           $("#stdEmail").text(data.Email);
   43
   44
                       },
                       error: function (err) {
   45
                           console.error(err);
   46
   47
                   })
   48
   49
1% ▼ 4 ■
```



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Name

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Nitish kaushik

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