

Agenda

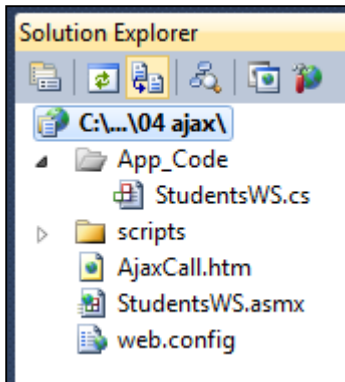
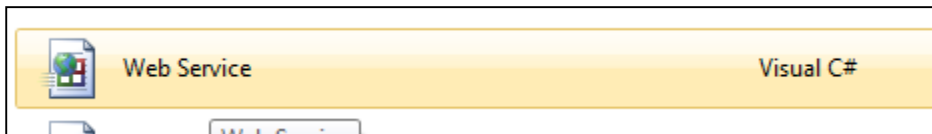
- Startup
- Selectors
- Modifying the DOM
- Events
- **Ajax**

Ajax

- Ajax - *Asynchronous JavaScript and XML*
- A way to refresh only part of the page (DOM), so it is more efficient than refreshing whole of it.
- We will use it to send and receive data from the server.
- The data can be of type: JSON, XML, HTML... we will use the JSON format (very efficient)
- The server side will be written in Asp.Net C# using the Web Service technique

Web Service – server side

- A web service is function that can be called from another computer over the internet.
- We need to know the url and the functions signature



Web Service cont'

- This is just a person class that we would use in the example

```
public class Person
{
    public int Id { get; set; }
    public string Name { get; set; }
    public string Address { get; set; }
}
```

Web Service cont'

```
[WebService(Namespace = "http://tempuri.org/")]
[WebServiceBinding(ConformsTo = WsiProfiles.BasicProfile1_1)]
[System.ComponentModel.ToolboxItem(false)]
// To allow this Web Service to be called from script, using ASP.NET AJAX, uncomment
the following line.
[System.Web.Script.Services.ScriptService]
public class UsersWS : System.Web.Services.WebService
{
    [WebMethod]
    public string GetUserByIdAndName(int id, string name)
    {
        Person p = new Person() { Id = id, Name = name, Address = "sokolov 1" };
        return new JavaScriptSerializer().Serialize(p);
    }
}
```

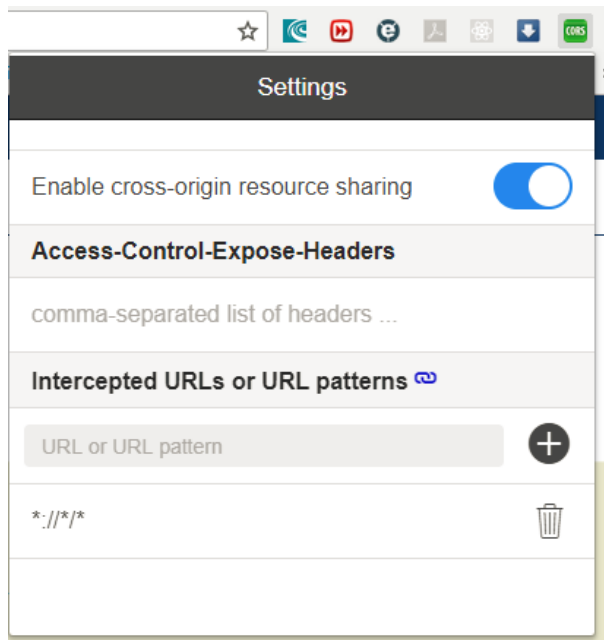
Could be any name

uncomment

attribute

JSON

Add extension or add to web.config!!!



```
<configuration>

  <system.webServer>
    <httpProtocol>
      <customHeaders>
        <add name="Access-Control-Allow-Headers" value="accept, content-type" />
        <add name="Access-Control-Allow-Origin" value="*" />
        <add name="Access-Control-Allow-Methods" value="POST, GET, OPTIONS" />
      </customHeaders>
    </httpProtocol>
  </system.webServer>
```

Fetch – client side

```
const data = {  
  id:7,  
  name: 'avi'  
};
```

Data to send to the server

Needs to be change
according to the actual url

```
fetch('http://localhost:53691/UsersWS.asmx/GetUserByIdAndName', {  
  method: 'post',  
  headers: new Headers({  
    'Content-Type': 'application/json;',  
  }),  
  body: JSON.stringify(data)  
})  
  .then(res => {  
    console.log('res=', res);  
    return res.json()  
  })  
  .then(  
    (result) => {  
      console.log("fetch POST= " , result);  
      console.log("fetch POST.d= " , result.d);  
      let p = JSON.parse( result.d);  
      console.log(p.Address);  
    },  
    (error) => {  
      console.log("err post=" , error);  
    }  
  );
```

Response will come as json

Get the data return use .d

If something is wrong..