

## Lab 6

T-213-VEFF, Vefforritun, 2018-1

The aim of this lab assignment is to get more familiar and comfortable with using AJAX.

You are to create a new MVC project. All the JavaScript code you write should reside in the **site.js** file which is located at **wwwroot/js**. I recommend using **jQuery** in this project which comes with all MVC projects. (I.e if you use **dotnet new mvc** to create the project).

1. Create an Action in the HomeController called **GetText** which returns the string "hello world" as Json.  
In **Views/Home/Index.cshtml** you will need to create a button. Once it is clicked an AJAX GET request should be sent to the GetText Action in the HomeController and once a response is received you should display the text in a h2 element.
2. Create an Action in the HomeController called **GetSecretStudent** which returns a Student instance (Name = "Bugs Bunny", Age = 80) as Json.  
In **Views/Home/Index.cshtml** you will need to create a div that contains a table which should have a row for each student in the FakeDatabase that is given with the lab description. There should be two columns in the table, one for Name and the other for Age. Under the table there should be a button that says "Get secret student!" Once clicked an AJAX GET request should be sent to the GetSecretAction in the HomeController and the Json response should be added to the table. Also, when the button is clicked the button should be disabled so the user cannot click it again.
3. In this part you don't need to implement anything in the server side code. You should add a div to **Views/Home/Index.cshtml** that contains an empty table and a button that says "Get concerts!" When that button is clicked it should be disabled and an AJAX GET request to <http://apis.is/concerts> should be sent. Once the response is received you should populate the table with table headers (<th> elements) which say **Event name**, **Place** and **Date**. Then you should populate the data rows of the table with the following information about the concerts : **The name of the event**, **the place** and the **date**.  
Hint: In order to figure out what the fields are called you should examine the data that is returned from <http://apis.is/concerts>. You can do that by simply writing this address in the your browsers' address bar.  
**Note:** There should be **no** table visible before the button is clicked!
4. Create an Action in the HomeController called **Add** which handles POST requests. It should take a single Student as a parameter. The Action should add the student to the FakeDatabase and **return Ok()**;  
You should add a div to **Views/Home/Index.cshtml** containing a table that has all the students in the database (just like in part 2 of this assignment). Beneath the student table there should be two input fields to add information about a new student (one for Name and one for Age) and a button that says "Add student". Once clicked, an AJAX POST request

should be sent to the **Add** Action within the HomeController. If it returns a **success** status the new student should be added to the bottom of the table. You may assume that the user will always input some name and some age and all input will be valid.

## Handin

You are to handin a single .zip file containing your entire project!