

Assignment #3

Objective: Learn about HTML forms, server-side scripting (using Microsoft's Razor), implement File Upload and use Session object in ASP.NET Web Pages.

Submission & Deadline: Send an e-mail to instructor with the URL of your site by Feb. 25, 2015.

Part 1: Modify the "File Upload" example (in the lecture "SWE362-HTML-Forms.pdf") to use a single ".cshtml" file that does both tasks: showing the form and handling form submission.

Note: The uploaded image must appear below the form.

For this, you can use the Session object. When the file is uploaded, instead of sending it back, reply with the html for the form and image tag*¹ only and save the file object into the Session object (`Session["file"] = file`). Later when the browser requests the image, retrieve the file object from Session (`var file = (HttpPostedFileBase) Session["file"]`) and write the image to the page's Response stream*².

*(1) **Note:** If the image tag is set as ``, then the test whether the image is being requested can use the condition: `(Request.QueryString.ToString() == "getImage")`.

*(2) **Note:** Before reading file content, add the line

```
file.InputStream.Seek(0, SeekOrigin.Begin);
```

This is needed for later requests to the image to work.

Part 2: What are the raw HTTP headers sent or received when the image is uploaded?

One way to find out is to enhance the code for Part1 and when processing the form submission (not when image is requested), populate a `div`** element with two `` lists for `Request.Headers` and `Response.Headers`.

** Use CSS to set the div's `width` and `height` and `"overflow-y:auto"` (for a vertical scrollbar)

Something to think about: Why when entering the absolute URL for the image in a *new incognito window* will not work?

Recommended Readings on Razor

1. <http://www.asp.net/web-pages/tutorials/basics/2-introduction-to-asp-net-web-programming-using-the-razor-syntax>
2. Do Google search for `"tutorial razor filetype: pdf"`
The first hit (`download.microsoft.com`) is a link to a good reference on WebMatix and Razor.

Important Notice:

There is a slight problem related to large-size Session data (you can see it when you test the part of your code that serves the image by requesting the URL *default.cshtml?getImage*).

To fix it, add the following text file named “**web.config**” to the folder where your “.cshtml” file resides (This is needed for your local WebMatrix development and then upload to your hosted site):

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
  <appSettings>
    <add key="webPages:Version" value="2.0"/>
  </appSettings>
  <system.web>
    <compilation debug="true" targetFramework="4.0" />
    <httpRuntime requestLengthDiskThreshold="32000" />
  </system.web>
</configuration>
```