Installation of Visual Studio 2015 version (one of the ones below) is not handled in this document

- **Enterprise (Most features, but requires some 8-15 GB of disk)**
- **Professional**
- **Community (free but limited)**
- **Code**

In fall 2016 Haaga-Helia school computers had 2015 Professional Update 2 installed. Go to Imagine Premium (previously DreamSpark Premium) to download either Enterprise or Community.

General knowledge about websites is found in the 20+ pages long document

Read it for info about security, file and folder names, WinSCP file transfers to Myy, WinSCP for setting the access rights right for the folders and files in public_html.

1. First create the website folder (=root folder of the website), e.g. AnnesWebsite, JoesWebsite or similar

While in school or while using VDI you can create that folder directly under M:\public_html\

While at home you can create that folder e.g. under the Documents folder and later use the WinSCP program to copy the folder and its subfolders to Myy public_html.

Never use spaces or special characters in folder or file names!

2. Start Visual Studio

Select the Blue Theme and e.g. Web Development settings

3. Open the folder as a Website

File > Open > Website… Browse for the AnnesWebsite folder. Press the triangle to expand the folder to see that you don't have any unwanted subfolders there. Like AnnesWebsite inside AnnesWebsite. Then click "Open".

4. (Optional but useful to do <u>once</u>) Save the .sln solution settings file to the AnnesWebsite folder

On the Solution Explorer window (usually on the right of the screen) select the _solution_ called AnnesWebsite. It's right above the _website_ called AnnesWebsite. When the correct item is selected, go to the menu File > Save AnnesWebsite.sln as… Now you need to notice that the offered folder is most likely <u>incorrect</u>. Browse to the real location, that is M:\public_html\AnnesWebsite or Documents\AnnesWebsite. Only after that you can select "Save".

Now you'll have the .sln file inside of your website root folder. From now on, whenever you double-click the .sln file it will open Visual Studio like you left it, if that computer has visual studio.

5. Download the 00_00 folder template from course homepage

Download the 00_00.zip folder template from the "Orientation to Software Engineering" BIT schedule and material page. Extract the zip. Locate the very 00_00 folder that has HTML, CSS and JS files inside of it and has no more folders inside. Copy the folder. Go to your AnnesWebsite folder and paste 00_00 there.

6. Refresh the Visual Studio Solution Explorer window to see the added 00_00 folder

Go to Visual Studio. Right-click on the _website_ AnnesWebsite and select command "Refresh folder" to see the newly added 00_00 folder. Don't edit the HTML, CSS and JS files in 00_00, they are templates.

7. Copy the 00_00 folder and rename the copy to be e.g. 04_01

In Visual Studio, select the 00_00 folder and Copy (Ctrl+C) that folder. Go to the website “AnnesWebsite” and Paste (Ctrl+V). You will get a folder called “00_00 - Copy". Rename it e.g. to 04_01 if that’s the task you are doing.

8. Close all files open in the editors before you start opening and editing the new task files

Close all HTML, CSS, JS and so on files that you might have (maybe you don’t this time) open in the editors in the middle (“Design, Source, Split). Otherwise you cannot be sure whether you are editing the HTML of 04_01 or 04_02.

9. What to do with the HTML, CSS and/or JavaScript given in the task description?

Easiest solution: Replace the HtmlPage.htm, StyleSheet.css and JavaScript content with the codes you got in the task description.

A bit harder solution: Integrate our 00_00 based template and the given code into valid document.

10. WYSIWYG visual editor in Visual Studio (~Visual Studio’s “Live Preview”)

Right-click an HTML page and select Open With… > HTML (Web Forms) Editor > Set as Default > OK.

After that, while opening an HTML page for editing, you’ll see **Design** (WYSIWYG=What You See Is What You’ll Get=Visual Editor), **Source** (HTML markup) and **Split** (Design & Source simultaneously) windows.

11. Automatic source code formatting

Edit > Advanced > Format Document or sometimes Edit > Format Document

12. Save files and View in Browser (Testing locally)

Ctrl+S = save active file, Shift+Ctrl+S = save all edited files. Right-click on the HTML file and select “Browse With…”. Make sure to set Chrome to be the Default (Set as Default) and then “Browse”. Next time you can just select “View in Browser (Chrome)”.

While in Chrome use Shift+Ctrl+I to open the Developer tools. (see separate document about Chrome developer tools)

Note! You cannot validate the HTML and CSS this way, as you are running the page locally.

13. Publish the files to Myy (If not already working on M:\ )

While working with own computer, use the WinSCP to take connection to host “myy.haaga-helia.fi”, protocol “sftp” and port “22”. Make sure you know which local folders you have on the left and which remote folders on the right.

You can transfer single files, the whole 04_01 folder or the whole AnnsWebsite. Be careful so that you don’t overwrite wrong files accidentally. In the beginning cross-check twice before doing the actions.

14. Set the file and folder permissions under public_html folder

Use the WinSCP to put most of the folders to be **rwx**r_xr_x and most of the files be **rw_**r__r__ (Your rights on bold, then ‘group’ and ‘others’)

15. Test via real internet (Myy) and run validators

The link to the Myy website is something like this: http://myy.haaga-helia.fi/~a1234567/AnnesWebsite/04_01

Through this link the **validators will start working**. This is the only way validators are supposed to work for us.

You are supposed to validate your HTML and CSS, and let JSLint to check your JavaScript, before submitting the link to your task folder to Moodle.

16. Submit to Moodle as a folder link

Submit the link to the task folder. E.g. http://myy.haaga-helia.fi/~a1234567/AnnesWebsite/04_01 could be a perfect submission. It starts with http://myy.haaga-helia.fi and so on. It contains your username '~a1234567' and it ends with the folder name corresponding to the task number, e.g. /04_01.