

Lab 2 – Hello World! An introduction to ASP.NET MVC Core

Description

This lab is designed to give you a basic understanding of an ASP.NET MVC Core application.

Estimated Time

This lab will take an estimated 2 hours to complete

Deliverable

Deploy your website to Windows Azure and submit the link to Brightspace. You do not need to create git repos for this lab assignment.

See Microsoft Azure Web Application document under the “Extra Content” section in BrightSpace.

See a sample output here: <https://afrasialab2.azurewebsites.net/>

Step 1: Modify IntroToWebApplications

1. Go to <https://github.com/aarad-ac/IntroToWebApplications/archive/refs/heads/main.zip> and download the code.
2. Unzip the package and open the solution in Visual Studio 2022.
3. Once open you should see 3 projects listed in the solution. Delete the following projects:
 - a. IntroToWebApplications.Static
 - b. IntroToWebApplications.5
4. You should now only have the one project left in the solution: IntroToWebApplications.6
5. Expand the Views Folder, Expand the Home Folder and open the file 'Index.cshtml'
6. Modify this file by removing its content and start from a blank page.
7. Use HTML to display (you are free to choose your own formatting):
 - a. A header with the words 'About Me'
 - b. Your first and last name
 - c. Your student number
 - d. Your student email address (you can mask the domain to avoid spam)

- e. A short paragraph about you
 - f. A short paragraph about what you expect from this course. What you think you will learn. What you would like to learn. Etc.
8. Continue using this page to answer the following questions (make sure to display both Questions and Answers):
- a. Question list:
 - 1. C# is a strongly or loosely typed language? Why?
 - 2. C# is declarative or imperative? Why?
 - 3. Explain implicit types in C# and give an example.
 - 4. What is a difference between a Value Type and a Reference type?
 - 5. What is a 'Property' in C# as it relates to classes and objects?
 - 6. Describe the MVC design pattern. Explain its components.
 - 7. Describe the purpose of the Program.cs class in this project.
 - 8. MVC Core applications can 'host' themselves: true or false.
 - 9. Explain what happens in memory when we make a value type nullable.
 - 10. Name and define three cloud computing models?
 - 11. Explain Git branches and why we use them?
 - 12. Explain dependency injection and why we use it?
9. Use the steps in Microsoft Azure Web Application document to deploy your application