INFS3204/7204 Practical 1 – Web Services

Note that: for all practicals in this course, you need submit your codes to the blackboard, before you demonstrate your codes to your tutor. Demonstration without submitting your codes will be 0 directly. The purpose of this is to detect any possible plagiarism.

The goal of this practical is to explore .NET web services. All practicals will have to be developed with Microsoft Visual Studio **2010** using **C#** as the programming language. No other languages will be accepted. This practical contributes to **5%** of your overall grade. You must present this practical to your lab tutor during your scheduled lab session in **week 5**. **You are not allowed to change your session.**

This practical is divided into 3 tasks:

- Creating a Time Display Web Application (1 Mark)
- Creating a Time Display Web Service (2 Marks)
- Creating an Age Calculator Web Application (2 Marks)

Preparation

Before attempting to do this practical, you should have a basic knowledge of how to use Microsoft Visual Studio **2010** as well as a basic knowledge of programming with **C#**. Please watch the tutorial video for Practical 1 before attempting to do this practical. **Please note** that you need to choose .NET Framework **4** for your practicals. You also need to have Windows 7 installed on your computer.

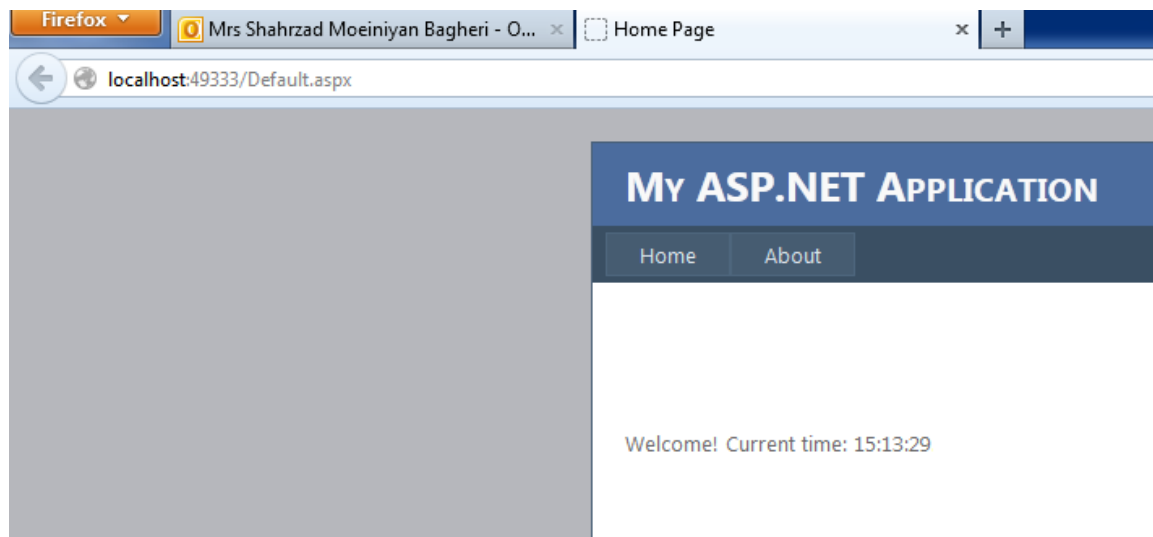For more information, you could also take a look at the following link:

http://msdn.microsoft.com/en-us/library/ms464040.aspx

Task 1: Creating a Time Display Web Application (1 Mark)

Follow the tutorial video (http://itee.uq.edu.au/~shenht/P1-video.mp4) and create a Web application with Web Form, which will consume the web service that you have to create in Task 2.

Task 2: Creating a Time Display Web Service (2 Marks)

Follow the tutorial video and add a Web Service to the Web application that you have created in Task 1 that returns **only** the current time. When the application page loads, it displays a concatenated welcome message with the current time returned by the web service. Your final application should look like the example below:
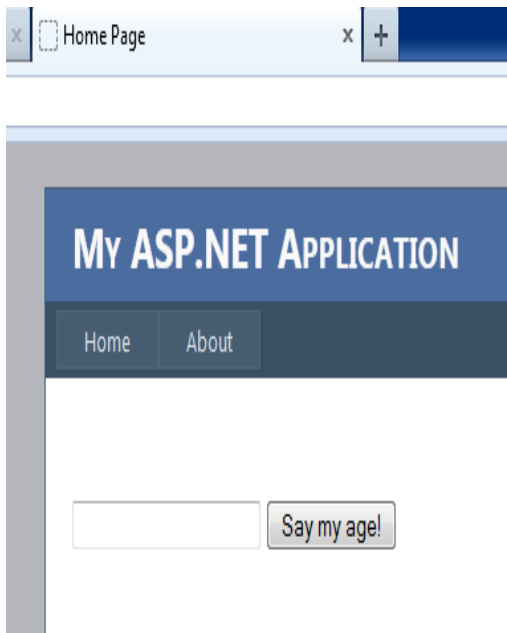

Task 3: Creating an Age Calculator Web Application (2 Marks)

Create an Age Calculator Application with Web Form. After the user has typed in his/her year of birth in the provided input field and clicked on the button, the application will invoke a Web Service that receives

the user's year of birth and calculates and returns the user's age. Then, the application concatenates a string to the age returned by the service, and displays a message like the example below. (**Please note** that you are **not** required to validate the user's input for this practical):

Before:

After: