# *Web Programming VI (420-H60-HR)*

# *Lab 5 – Consuming SOAP Web Services*

Date due: **Friday, September 27, 1:00 p.m.**

**Learning Objectives**

Upon successful completion of this lab exercise, the student will have:

* Use a SOAP Web Service in .NET Core Framework

Lab Setup

1. Create a folder called *yourinitials\_H60L05* in which you will store your solution.

To do:

Part A – Consume SOAP Services

1. Create a new solution in the lab folder you created and called it PartA. It is also a .NET Core project using the MVC Template.
2. Look at: <http://webservices.oorsprong.org/websamples.countryinfo/CountryInfoService.wso>. This site opens up a number of service methods about countries. It also uses http and not https.
3. Add the WSDL for these as a Service Reference for the project. Call the Service ServiceReferenceCountryInfo.
4. Now, produce a controller/view combination that allows the user to enter a country name and returns and displays the country’s abbreviation, currency, capital city and the image of the flag of the country (NOT the link, display the actual image).

* You must use multiple calls to the methods to do this. Use CountryISOCode to get the abbreviation for the country and then use the returned value from this call to call CapitalCity, CountryCurrency and CountryFlag. You CANNOT use FullCountryInfo for this question.
* You should create a class with the attributes being the information you need. Then create/update the class attributes as you receive the information. Then pass the object to the view to display it.
* Note, the calls are case sensitive (what do you want, it’s free). You can make it insensitive if you want by making it Title case
* Be careful with currency, the others return a string, but the currency is a record.

1. Make sure you handled errors properly.

Test Data (entered and displayed one at a time) – only enter the Country name and use the web services to get everything else.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Country Entered | Abbrev | Currency | Capital | Flag |
| Canada | CA | Canadian Dollars | Ottawa | http://www.oorsprong.org/WebSamples.CountryInfo/Images/Canada.jpg |
| South Africa | ZA | South Africa Rands | Cape Town | http://www.oorsprong.org/WebSamples.CountryInfo/Images/South_Africa.jpg |
| Italy | IT | Euro | Rome | http://www.oorsprong.org/WebSamples.CountryInfo/Images/Italy.jpg |
| Bouvet Island | BV | Krone | None | http://www.oorsprong.org/WebSamples.CountryInfo/Images/Norway.jpg |
| Wakanda | No country found by that name | None | None | None |

**Marks**

|  |  |
| --- | --- |
| **Part A - Consume SOAP service** |  |
| Service Reference | 3 |
| Set up calls (class used) | 6 |
| Actions in Controller | 4 |
| View with Form | 2 |
| View with Result | 6 |
| Error Catching on missing country | 2 |
|  |  |
| Handed in Properly | 2 |
|  |  |
| **Total** | 25.00 |

**To submit**

When you have completed the lab, push your work in your github classroom repository