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ASE LAB4

1. REST WEBSERVICE

I created a Restful web service using C#. The screen shots are as follows.

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WcfService1 - Microsoft Visual Studio
                                                                                                                                                                                                                                                                                                                        ∄ ×
File Edit View Refactor Project Build Debug Team Data Tools Test Window Help
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                                               ▼ ‡ × IService1.cs Service1.svc.cs ×
                                                                                                                                                                                                                                                                          🛓 📳 🗷 🖺 🦓
                                                                ∜ WcfService1.Person
                                                                                                                                                               → 🍱 University
                                                                      Wising System.Collections.Generic;
using System.Linq;
using System.Rentime.Serialization;
using System.Rentime.Serialization;
using System.ServiceModel;
using System.ServiceModel;
using System.ServiceModel.Web;
using System.ServiceModel.Web;
                                                                                                                                                                                                                                                                         Solution 'WcfService1' (1 project)
    There are no usable controls in this group.
Drag an item onto this text to add it to the
toolbox.
                                                                                                                                                                                                                                                                             @ WcfService1
                                                                                                                                                                                                                                                                                Properties
References
App_Data
Service1.cs
Service1.svc
Web.config
                                                                     □namespace WcfService1
                                                                             // NOTE: You can use the "Rename" command on the "Refactor" menu to change the class name "Service1" in c public class Service1 : IService1
                                                                                     [{\tt WebInvoke}({\tt Method} = "{\tt GET"}, {\tt ResponseFormat} = {\tt WebMessageFormat}. {\tt Json}, {\tt UriTemplate} = "{\tt data} / \{{\tt id}\}")]
                                                                                    public Person GetData2(string id)
{
                                                                                           // lookup person with the requested id return new Person() {
                                                                                                 Id = Convert.ToInt32(id),
                                                                                                                                                                                                                                                                       3 2↓ 3
                                                                                                  Name = "srujana",
Major= "ComputerScience",
University= "UMKC"
                                                                                          };
                                                                                     public string GetData(int value)
```

```
WcfService1 - Microsoft Visual Studio
                                                                                                                                                                                              ii x
File Edit View Refactor Project Build Debug Team Data Tools Test Window Help
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<sup>♠</sup>
WcfService1.Person

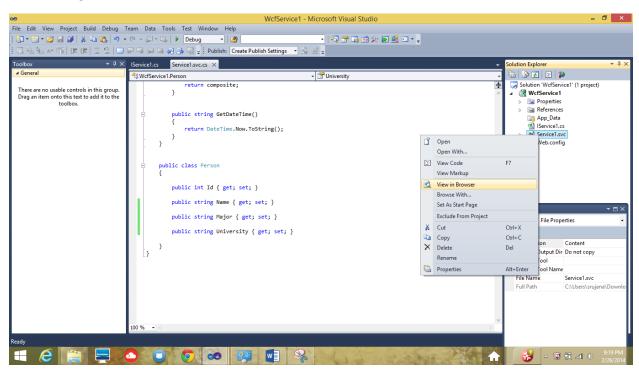
                                                                                                                                                                  🛅 | 🚱 👩 | 🖭 🕰 | 🐌
                                                                                                                                                                 Solution 'WcfService1' (1 project)
 There are no usable controls in this group.

Drag an item onto this text to add it to the toolbox.
                                                    \underline{\underline{public}} \  \, \mathsf{CompositeType} \  \, \mathbf{GetDataUsingDataContract(CompositeType} \  \, \mathbf{composite})

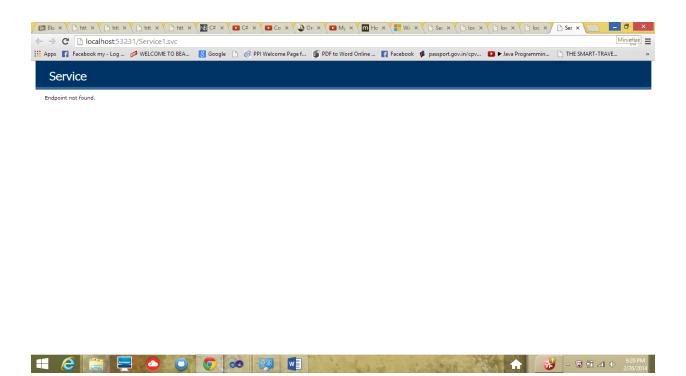
₩cfService1

                                                                                                                                                                      Properties
References
                                                       if (composite == null)
                                                                                                                                                                       App_Data
Service1.cs
                                                           throw new ArgumentNullException("composite");
                                                                                                                                                                       Service1.svc
Web.config
                                                         if (composite.BoolValue)
                                                           composite.StringValue += "Suffix";
                                                        return composite;
                                                    public string GetDateTime()
                                                       return DateTime.Now.ToString();
                                                                                                                                                                31 2↓ □
                                               public class Person
{
                                                   public int Id { get; set; }
                                                   public string Name { get; set; }
                                                   public string Major { get; set; }
                                                   public string University { get; set; }
```

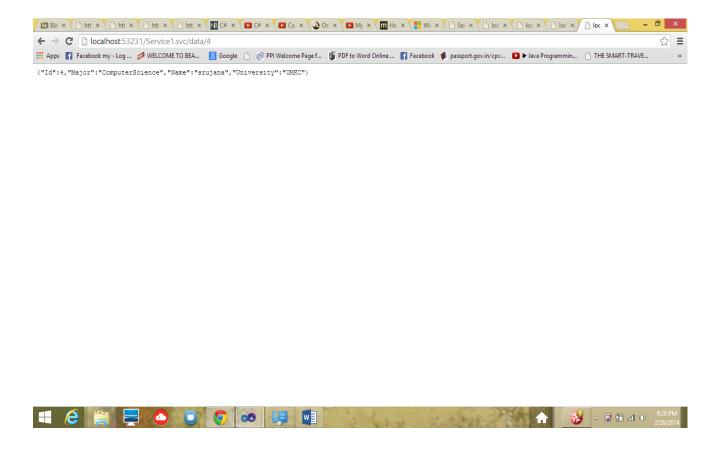
When we right click Service1.svc and select view in browser



If we do not specify the end point, we get this...

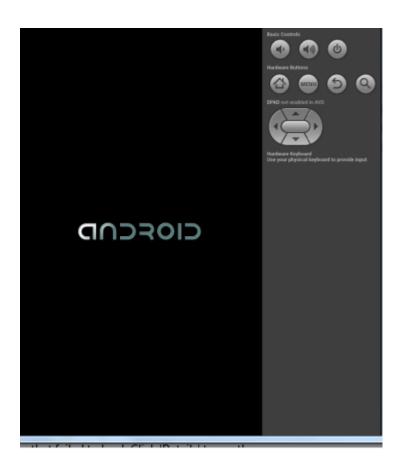


After we add data after root location, we get the output as

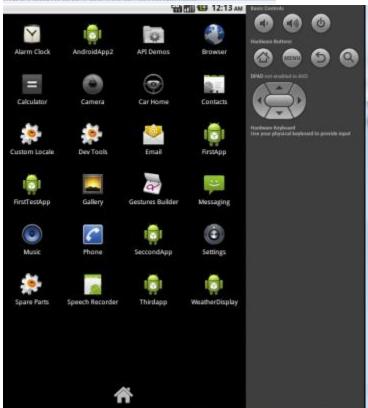


ANDROID APPLICATION

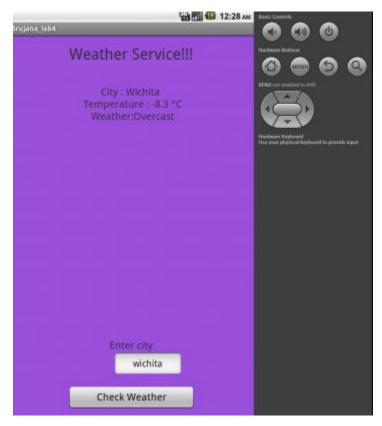
I have developed weather service application, I have used weather API, when we enter the city name, the weather at that particular place is displayed. The screen shot for that are as follows.







the





We can view weather for different cities, the temperature and weather at that particular city are displayed.

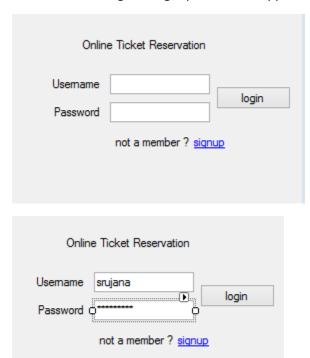
WEBSERVICE

I have created a web service whose view is





User can either login or signup to use the application.



I have not developed the application completely, I just tried creating the login and signup page, the signup page takes the user's details to make the application fully active.