# **Module 5 Practicals**

## Part 1 - ASP.NET Web Forms

#### WebForm1.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true"
CodeBehind="WebForm1.aspx.cs" Inherits="WebApplication1.WebForm1" %>
<!DOCTYPE html>
<a href="http://www.w3.org/1999/xhtml">
<head runat="server">
   <title></title>
   <style type="text/css">
       .auto-style1 {
           width: 100%;
       .auto-style2 {
           margin-left: 0px;
       .auto-style3 {
           width: 121px;
   </style>
</head>
<body>
   <form id="form1" runat="server">
       <div>
           <h2>Welcome to the Web Forms!</h2>
           >
                   <asp:Label ID="Label1" runat="server" Text="User
Name"></asp:Label>
                       <asp:TextBox ID="TextBox1" runat="server"</pre>
CssClass="auto-style2"></asp:TextBox>
               <asp:Label ID="Label2" runat="server" Text="Upload
a File"></asp:Label>
                   <asp:FileUpload ID="FileUpload1" runat="server"
/>
               </div>
```

[Heli Parekh] [1]

```
</form>
</body>
</html>
```

### Part 2 - ASP.NET Web API

#### Global.asax.cs:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
using System.Web.Http;
using System. Web. Mvc;
using System. Web. Optimization;
using System. Web. Routing;
namespace WebApplication2 WebAPI
    public class WebApiApplication: System.Web.HttpApplication
         protected void Application Start()
              AreaRegistration.RegisterAllAreas();
              GlobalConfiguration.Configure(WebApiConfig.Register);
              FilterConfig.RegisterGlobalFilters(GlobalFilters.Filters);
              RouteConfig.RegisterRoutes(RouteTable.Routes);
              BundleConfig.RegisterBundles(BundleTable.Bundles);
              //serialization
              //effect can be seen in internet explorer whenit downloads ison file
              //as chrome default content is xml, effect can't be seen in json or xml
via browser or postman
              var ison =
GlobalConfiguration.Configuration.Formatters.JsonFormatter;
              json.SerializerSettings.Formatting =
Newtonsoft.Json.Formatting.Indented;
    }
WebApiConfig.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web.Http;
```

[Heli Parekh] [2]

```
namespace WebApplication2 WebAPI
    public static class WebApiConfig
         public static void Register(HttpConfiguration config)
              // Web API configuration and services
              // Web API routes
              //enable attribute routing
              config.MapHttpAttributeRoutes();
              //custom route - work in postman, this route will be matched first (first
come first serve)
              config.Routes.MapHttpRoute(
                   name: "emp",
                   routeTemplate: "api/emp",
                   defaults: new { controller="employee" }
              );
              //add default route using convention-based routing
              //priority will be given to attribute routing
              config.Routes.MapHttpRoute(
                   name: "DefaultApi",
                   routeTemplate: "api/{controller}"
              );
         }
    }
}
EmployeeController.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Net;
using System.Net.Http;
using System.Web.Http;
using WebApplication2 WebAPI.Models;
namespace WebApplication2 WebAPI.Controllers
    public class EmployeeController: ApiController
         Employee[] employees = new Employee[]{
          new Employee \{ id = 1, name = "Mark", age = 30 \},
          new Employee \{ id = 2, name = "Allan", age = 35 \},
          new Employee { id = 3, name = "Johny", age = 21 }
         };
```

[Heli Parekh] [3]

```
//attribute routing - enabled in WebApiConfig class
         [Route("api/employee/details")]
         public IEnumerable<Employee> GetAllEmployees()
              return employees;
         [Route("api/employee/details/{id}")]
         public IHttpActionResult GetEmployee(int id)
              var employee = employees.FirstOrDefault((p) => p.id == id);
              if (employee == null)
                   return NotFound();
              return Ok(employee);
         }
         //parameter binding - primitive->from uri
                                - complex->from body
         // to force opp rules i.e primitive from body & complex from uri
         public Employee Post([FromUri] Employee emp) //if above att. route not
given, then this method will
              //not be executed.Instead,GetEmployee method with id executes even
though all 3 params are passed
              //in query string.If both are get, either should exist.
              return emp;
         public Employee Get([FromBody] string name)
              var employee = employees.FirstOrDefault((p) => p.name == name);
              return employee;
    }
}
Employee.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web;
namespace WebApplication2_WebAPI.Models
    public class Employee
```

[Heli Parekh] [4]

```
public int id { get; set; }
    public string name { get; set; }
    public int age { get; set; }
}
```

[Heli Parekh] [5]