Module 6 Practicals

```
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);
         }
    }
WebApiConfig.cs:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Web.Http;
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();
```

[Heli Parekh]

```
}
    }
}
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 }
         };
         //GET Methods
         [Route("api/employee/details")]
         public IEnumerable<Employee> GetAllEmployees()
         {
              return employees;
         [Route("api/employee/{id}")]
         public IHttpActionResult Get(int id)
              var employee = employees. First Or Default ((p) \Rightarrow p.id \Rightarrow id);
              if (employee == null)
                   return NotFound();
              return Ok(employee);
         }
         [Route("api/employee/details/{name}")]
         public IHttpActionResult Get(string name)
              var employee = employees.FirstOrDefault((p) => p.name == name);
              if (employee == null)
                   return NotFound();
```

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```
}
         //POST Method
         [Route("api/employee/insert")]
         public IEnumerable<Employee> Post(Employee emp)
         {
              int len = employees.GetLength(0);
              try
                  employees.SetValue( new Employee { id = emp.id, name =
emp.name, age = emp.age } , len );
              catch (IndexOutOfRangeException e)
                  Console.WriteLine(e.Message);
              return GetAllEmployees();
         }
         //PUT Method
         [Route("api/employee/update/{name}")]
         public IEnumerable<Employee> Put(Employee emp , string name)
              var employee = employees. First Or Default ((p) \Rightarrow p.name == name);
              employee.id = emp.id;
              employee.name = emp.name;
              employee.age = emp.age;
              return GetAllEmployees();
         }
         //DELETE Method
         [Route("api/employee/delete/{name}")]
         public IEnumerable<Employee> Delete(string name)
              var employee = employees.FirstOrDefault((p) => p.name == name);
              //assume to be deleted, as it's array
              employee.id = 0;
              employee.name = null;
              employee.age = 0;
              return GetAllEmployees();
         }
    }
}
Employee.cs:
using System;
using System.Collections.Generic;
using System.Linq;
```

return Ok(employee);

[Heli Parekh] [3]

```
using System.Web;

namespace WebApplication2_WebAPI.Models
{
    public class Employee
    {
        public int id { get; set; }
        public string name { get; set; }
        public int age { get; set; }
}
```

[Heli Parekh] [4]