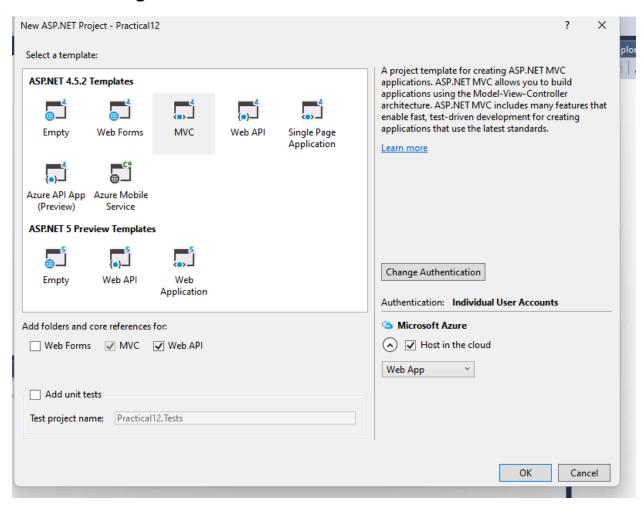
Subject: ASP.net Date: 23<sup>rd</sup> February 2024

### Practical 12

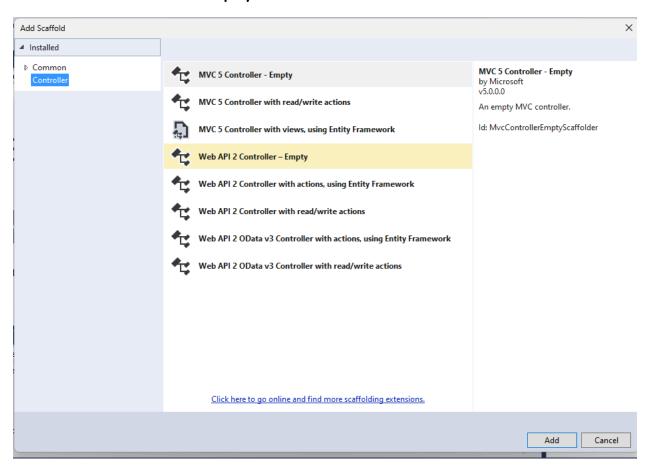
Aim: Working with ASP.net Web API in MVC.



Subject: ASP.net Date: 23<sup>rd</sup> February 2024

1. Web API with controller

Add a Web API 2-empty controller



Subject: ASP.net Date: 23<sup>rd</sup> February 2024

# ValueController.cs

<string xmlns="http://schemas.microsoft.com/2003/10/Serialization/">Aryan</string>

This XML file does not appear to have any style information associated with it. The document tree is shown below.

Subject: ASP.net Date: 23<sup>rd</sup> February 2024

# 2. Implementing Web API with controller and model

#### Student.cs

```
Practical12 - Microsoft Visual Studio (Administrator)
File Edit View Project Build Debug Team Tools Test Analyze Window Help
8 😋 → 🗇 👸 → 🔄 💾 🛂 🦅 → 🦿 → Debug → Any CPU
                                                           → ▶ Google Chrome → 🖒 → 🎜 🚚 ե 📭 🖫
                    StudentController.cs
                                                      Your ASP.NET application
Practical12
                                          ▼ 1 Practical 12. Models. Student
                                                                                      → 🎉 dob
     □using System;
      using System.Collections.Generic;
      using System.Linq;
      using System.Web;

¬namespace Practical12.Models

           6 references
          public class Student
              4 references
              public int rollno { get; set; }
              public string UID { get; set; }
              3 references
              public string name { get; set; }
              public string course { get; set; }
              public DateTime dob { get; set; }
```

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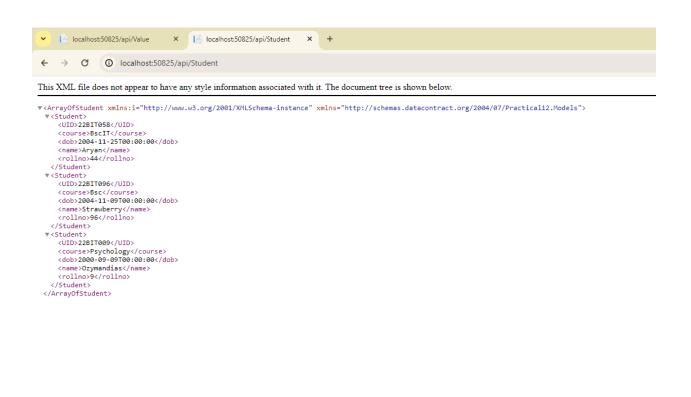
## StudentController.cs

```
StudentController.cs a → X Student.cs a
                                                                            ValueController.cs @
                                                                                                                      Your ASP.NET application
Practical12

→ ¶ Practical12.Controllers.StudentController

                                                                                                                                                                          → GetStudent(int ID)
        ⊟using System;
        using System.Collections.Generic;
using System.Ling;
         using System.Net;
using System.Net.Http;
     using System.Web.Http;
using Practical12.Models;
          namespace Practical12.Controllers
              public class StudentController : ApiController
                   Student[] students = new Student[]
                         new Student {rollno=44,UID="22BIT058",name="Aryan",course="BscIT",dob=new DateTime(2004,11,25,00,00,00,00)},
new Student {rollno=96,UID="22BIT096",name="Strawberry",course="Bsc",dob=new DateTime(2004,11,09,00,00,00,00)},
new Student {rollno=09,UID="22BIT009",name="Ozymandias",course="Psychology",dob=new DateTime(2000,09,00,00,00,00,00)}
                    public IEnumerable<Student> GetAllStudents()
                    public IHttpActionResult GetStudent(int ID)
                         var student = students.FirstOrDefault((p) => p.rollno == ID);
                         if(student==null)
                              return NotFound();
                         return Ok(student);
```

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This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
▼<Student xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://schemas.datacontract.org/2004/07/Practical12.Models">
    <UID>22BIT058</UID>
    <course>BscIT</course>
    <dob>2004-11-25T00:00:00</dob>
    <name>Aryan</name>
    <rollno>44</rollno>
    </student>
```

Subject: ASP.net Date: 23<sup>rd</sup> February 2024

