C# Cumulative Part 1

1. API that Lists Teachers

Curl command: curl http://localhost:5288/api/TeacherAPI

Output:

```
C:\Saahil\progarm\Assignment>curl http://localhost:5288/api/TeacherAPI
[{"teacherId":2,"name":"Alice Johnson","hireDate":"2023-02-10T00:00:00","subject":"History","courses":null},{"teacherId":3,"name":"Alice Johnson","hireDate":"2023-02-10T00:00:00","subject":"History","courses":null}]
C:\Saahil\progarm\Assignment>
```

2. API that Finds a Teacher by the Teacher's ID

Curl command: curl http://localhost:5288/api/TeacherAPI/2

Output:

```
C:\Saahil\progarm\Assignment>curl http://localhost:5288/api/TeacherAPI/2
{
  "$id": "1",
  "teacherId": 2,
  "name": "Alice Johnson",
  "hireDate": "2023-02-10T00:00:00",
  "subject": "History",
  "courses": {
    "$id": "2",
    "$values": [
      {
        "$id": "3",
        "courseId": 1,
        "courseName": "Advanced Mathematics",
        "teacherId": 2,
        "teacher": {
          "$ref": "1"
        }
      },
      {
        "$id": "4",
        "courseId": 2,
        "courseName": "English",
        "teacherId": 2,
        "teacher": {
          "$ref": "1"
        }
      }
    ]
  }
}
C:\Saahil\progarm\Assignment>
```

3. API that adds a teacher

Curl command: curl-X POST http://localhost:5288/api/TeacherAPI-H "Content-Type: application/json"-d "{\"name\":\"Alice Johnson\",\"hireDate\":\"2023-02-10\",\"subject\":\"History\"}"

Output:

```
C:\Saahil\progarm\Assignment>curl -X POST http://localhost:5288/api/TeacherAPI -H "Content-Type: application/json" -d "{\"name\":\"Alice Johnson\",\"hireDat
e\":\"2023-02-10\",\"subject\":\"History\"}"
{"teacherId":3,"name":"Alice Johnson","hireDate":"2023-02-10T00:00:00","subject":"History"}
C:\Saahil\progarm\Assignment>
```

4. API to get teacher which do not exists

Curl command: curl http://localhost:5288/api/TeacherAPI/1

Output:

```
C:\Saahil\progarm\Assignment>curl http://localhost:5288/api/TeacherAPI/1
{
  "$id": "1",
  "message": "Error: Teacher not found.",
  "teacherId": 1
}
C:\Saahil\progarm\Assignment>
```

5. Your web page that displays all teachers

6. Your web page that displays a teacher

7. Read functionality for Students

Curl Command: curl http://localhost:5288/api/StudentAPI/1

```
C:\Saahil\progarm\Assignment>curl http://localhost:5288/api/StudentAPI/1
{
  "$id": "1",
  "message": "Error: Student not found.",
  "studentId": 1
}
C:\Saahil\progarm\Assignment>
```

8. Read functionality for Courses

Curl Command: curl http://localhost:5288/api/CourseAPI

```
C:\Saahil\progarm\Assignment>curl http://localhost:5288/api/CourseAPI
{
  "$id": "1",
  "$values": [
    {
      "$id": "2",
      "courseId": 1,
      "courseName": "Advanced Mathematics",
      "teacherId": 2,
      "teacher": null
    },
    {
      "$id": "3",
      "courseId": 2,
      "courseName": "English",
      "teacherId": 2,
      "teacher": null
    }
  ]
}
C:\Saahil\progarm\Assignment>
```

9. Display all Courses taught by that teacher

Teacher Details

ID: 2

Name: Alice Johnson

Hire Date: 10-02-2023

Subject: History

Courses Taught

- Advanced Mathematics
- English

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Teacher Details

ID: 3

Name: Alice Johnson

Hire Date: 10-02-2023

Subject: History

Courses Taught

No courses assigned to this teacher.

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