CourseAPIController

1. ListAllCourseInfo

```
C:\Users\dhruv>curl -X "GET" "https://localhost:7226/api/Course/ListAllCourseInfo
[{"id":1,"courseCode":"http5101","teacherId":1,"startDate":"2018-09-04T00:00:00","finishDate":"2018-12-14T00:00:00","cou
rseName":"Web Application Development"},{"id":2,"courseCode":"http5102","teacherId":2,"startDate":"2018-09-04T00:00:00",
"finishDate":"2018-12-14T00:00:00","courseName":"Project Management"},{"id":3,"courseCode":"http5103","teacherId":5,"sta
rtDate":"2018-09-04T00:00:00","finishDate":"2018-12-14T00:00:00","courseName":"Web Programming"},{"id":4,"courseCode":"h
ttp5104","teacherId":7,"startDate":"2018-09-04T00:00:00","finishDate":"2018-12-14T00:00:00","courseName":"Digital Design
"},{"id":5,"courseCode":"http5105","teacherId":8,"startDate":"2018-09-04T00:00:00","finishDate":"2018-12-14T00:00:00","c
ourseName":"Database Development"},{"id":6,"courseCode":"http5201","teacherId":2,"startDate":"2019-01-08T00:00:00","fini
shDate":"2019-04-27T00:00:00","courseName":"Security & Quality Assurance"},{"id":7,"courseCode":"http5202","teacherId":3
,"startDate":"2019-01-08T00:00:00","finishDate":"2019-04-27T00:00:00","courseName":"Web Application Development 2"},{"id
":8,"courseCode":"http5203","teacherId":4,"startDate":"2019-01-08T00:00:00","finishDate":"2019-04-27T00:00:00","courseNa
me":"XML and Web Services"},{"id":9,"courseCode":"http5204","teacherId":5,"startDate":"2019-01-08T00:00:00","finishDate"
:"2019-04-27T00:00:00","courseName":"Mobile Development"},{"id":10,"courseCode":"http5205","teacherId":6,"startDate":"20
19-01-08T00:00:00","finishDate":"2019-04-27T00:00:00","courseName":"Career Connections"},{"id":11,"courseCode":"http5206
","teacherId":8,"startDate":"2019-01-08T00:00:00","finishDate":"2019-04-27T00:00:00","courseName":"Web Information Archi
tecture"},{"id":12,"courseCode":"PHYS2203","teacherId":10,"startDate":"2019-09-04T00:00:00","finishDate":"2019-12-14T00:
00:00","courseName":"Massage Therapy"}]
C:\Users\dhruv>
```

2. ListCourseInfo

```
C:\Users\dhruv>curl -X "GET" "https://localhost:7226/api/Course/ListCourseInfo?CourseId=2"
{"id":2,"courseCode":"http5102","teacherId":2,"startDate":"2018-09-04T00:00:00","finishDate":"2018-12-14T00:00:00","cour
seName":"Project Management"}
```

a. Missing Parameter

```
C:\Users\dhruv>curl -X "GET" "https://localhost:7226/api/Course/ListCourseInfo"
Teacher with ID 0 not found.
C:\Users\dhruv>
```

b. Empty Parameter

```
C:\Users\dhruv>curl -X "GET" "https://localhost:7226/api/Course/ListCourseInfo?CourseId="
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","status":
400,"errors":{"CourseId":["The value '' is invalid."]},"traceId":"00-9b2d3dc2feb23465ac29cbbce4df46cf-3325a958be19f5f8-0
0"}
C:\Users\dhruv>
```

c. Data Type (Integer, Float)

```
C:\Users\dhruv>curl -X "GET" "https://localhost:7226/api/Course/ListCourseInfo?CourseId=abc"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","status":
400,"errors":{"CourseId":["The value 'abc' is not valid."]},"traceId":"00-5a44fe94fb7225e79cdccdda5357fd44-338e8f90793e1
7f5-00"}
C:\Users\dhruv>curl -X "GET" "https://localhost:7226/api/Course/ListCourseInfo?CourseId=1.1"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","status":
400,"errors":{"CourseId":["The value '1.1' is not valid."]},"traceId":"00-88c9983096f558223bfda0b1f26eb285-3fe67195538cc
fde-00"}
C:\Users\dhruv>
```

d. Course ID not found

```
C:\Users\Dhruv>curl -X "GET" "https://localhost:7226/api/Course/ListCourseInfo?CourseId=100"
Course with ID 100 not found.
C:\Users\Dhruv>
```

3. ListCourseInfo

```
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Course/ListCoursesByTeacherId?TeacherId=1"
[{"id":1,"courseCode":"http5101","teacherId":1,"startDate":"2018-09-04T00:00:00","finishDate":"2018-12-14T00:00:00","
courseName":"Web Application Development"}]
```

a. Missing Parameter

```
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Course/ListCoursesByTeacherId"
[]
```

b. Empty Parameter

```
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Course/ListCoursesByTeacherId?TeacherId="
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","statu
s":400,"errors":{"TeacherId":["The value '' is invalid."]},"traceId":"00-b1e2dcd12c371e81cd816bb7aec17244-f78de62ec0c
48890-00"}
```

c. Data Type (String, Float)

```
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Course/ListCoursesByTeacherId?TeacherId=1.1"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","statu
s":400,"errors":{"TeacherId":["The value '1.1' is not valid."]},"traceId":"00-7fe64ce94e50f64f4fcd8e58f53a29b0-49c359
448913886f-00"}
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Course/ListCoursesByTeacherId?TeacherId=abc"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","statu
s":400,"errors":{"TeacherId":["The value 'abc' is not valid."]},"traceId":"00-7dd536378a647045ee9cf2e6a3d91914-bb1a38
6e3f82d962-00"}
C:\Users\Dhruv>
```

d. **Teacher does not teach any course**

```
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Course/ListCoursesByTeacherId?TeacherId=100"
[]
```

StudentAPIController

1. **ListAllStudentInfo**

```
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Student/ListAllStudentInfo"
[{"id":1,"firstName":"Sarah","lastName":"Valdez","studentNumber":"N1678","enrollDate":"2018-06-18T00:00:00"},{"id":2,"firstName":"Jennif
er","lastName":"Faulkner","studentNumber":"N1679","enrollDate":"2018-08-02T00:00:00"},{"id":3,"firstName":"Austin","lastName":"Simon","s
tudentNumber":"N1682","enrollDate":"2018-06-14T00:00:00"},{"id":4,"firstName":"Mario","lastName":"English","studentNumber":"N1686","enro
llDate":"2018-07-03T00:00:00"},{"id":5,"firstName":"Elizabeth","lastName":"Murray","studentNumber":"N1690","enrollDate":"2018-07-12T00:0
0:00"},{"id":6,"firstName":"Kevin","lastName":"Williams","studentNumber":"N1691","enrollDate":"2018-08-04T00:00:00"},{"id":7,"firstName"
:"Jason","lastName":"Freeman","studentNumber":"N1694","enrollDate":"2018-08-16T00:00:00"},{"id":8,"firstName":"Nicole","lastName":"Armst
rong","studentNumber":"N1698","enrollDate":"2018-07-10T00:00:00"},{"id":9,"firstName":"Colleen","lastName":"Riley","studentNumber":"N170
2","enrollDate":"2018-07-15T00:00:00"},{"id":10,"firstName":"Julie","lastName":"Salazar","studentNumber":"N1705","enrollDate":"2018-07-1
0T00:00:00"},{"id":11,"firstName":"Dr.","lastName":"Bridges","studentNumber":"N1709","enrollDate":"2018-08-22T00:00:00"},{"id":12,"first
Name":"Vanessa","lastName":"Cox","studentNumber":"N1712","enrollDate":"2018-08-17T00:00:00"},{"id":13,"firstName":"Denise","lastName":"J
ackson","studentNumber":"N1714","enrollDate":"2018-07-26T00:00:00"},{"id":14,"firstName":"Roy","lastName":"Davidson","studentNumber":"N1
715","enrollDate":"2018-08-11T00:00:00"},{"id":15,"firstName":"Ryan","lastName":"Walters","studentNumber":"N1717","enrollDate":"2018-07-
25T00:00:00"},{"id":16,"firstName":"Patricia","lastName":"Sweeney","studentNumber":"N1719","enrollDate":"2018-08-08T00:00:00"},{"id":18,
"firstName":"Melissa","lastName":"Morales","studentNumber":"N1723","enrollDate":"2018-08-10T00:00:00"},{"id":19,"firstName":"Kimberly","
lastName":"Johnson","studentNumber":"N1727","enrollDate":"2018-08-02T00:00:00"},{"id":20,"firstName":"Andrea","lastName":"Flores","stude
ntNumber":"N1731","enrollDate":"2018-07-09T00:00:00"},{"id":21,"firstName":"Jason","lastName":"II","studentNumber":"N1732","enrollDate":
"2018-06-05T00:00:00"},{"id":22,"firstName":"David","lastName":"Dunlap","studentNumber":"N1734","enrollDate":"2018-08-27T00:00:00"},{"id
":23,"firstName":"Elizabeth","lastName":"Thompson","studentNumber":"N1736","enrollDate":"2018-08-07T00:00:00"},{"id":24,"firstName":"Bec
ky","lastName":"Medina","studentNumber":"N1737","enrollDate":"2018-07-02T00:00:00"},{"id":25,"firstName":"Wayne","lastName":"Collins","s
tudentNumber":"N1740","enrollDate":"2018-07-20T00:00:00"},{"id":26,"firstName":"Nicole","lastName":"Henderson","studentNumber":"N1742","
enrollDate":"2018-06-07T00:00:00"},{"id":27,"firstName":"David","lastName":"Larson","studentNumber":"N1744","enrollDate":"2018-07-19T00:
00:00"},{"id":28,"firstName":"John","lastName":"Reed","studentNumber":"N1748","enrollDate":"2018-08-15T00:00:00"},{"id":29,"firstName":"
Richard","lastName":"King","studentNumber":"N1751","enrollDate":"2018-08-17T00:00:00"},{"id":30,"firstName":"Alexander","lastName":"Benn
ett","studentNumber":"N1752","enrollDate":"2018-07-29T00:00:00"},{"id":31,"firstName":"Caitlin","lastName":"Cummings","studentNumber":"N
1756","enrollDate":"2018-08-02T00:00:00"},{"id":32,"firstName":"Christine","lastName":"Bittle","studentNumber":"N0001","enrollDate":"202
0-10-05T00:00:00"}]
```

2. **ListStudentInfo**

```
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Student/ListStudentInfo?StudentId=1"
{"id":1,"firstName":"Sarah","lastName":"Valdez","studentNumber":"N1678","enrollDate":"2018-06-18T00:00:00"}
```

a. **Missing Parameter**

```
tudentId":["The value '' is invalid."]}, "traceId":"00-69659f6f02076
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Student/ListStudentInfo"
Teacher with ID 0 not found.
```

b. **Empty Parameter**

```
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Student/ListStudentInfo?StudentId="
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","status":400,"errors":{"S
tudentId":["The value '' is invalid."]},"traceId":"00-69655f6f020768ac85469f6fbe7061a2-0fa902903023714b-00"}
```

c. **Data Type (String, Float)**

```
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Student/ListStudentInfo?StudentId=1.1"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","status":400,"errors":{"S
tudentId":["The value '1.1' is not valid."]},"traceId":"00-e540c4ccd6c682971fb94e0a90c0d6af-34d6679dba902cec-00"}
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Student/ListStudentInfo?StudentId=abc"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","status":400,"errors":{"S
tudentId":["The value 'abc' is not valid."]},"traceId":"00-d5feb74951ab46dd17066e584f11281a-3f4b0689e9802b63-00"}
```

d. **Teacher ID not found**

```
Teacher with ID 0 not found.
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Student/ListStudentInfo?StudentId=100"
Teacher with ID 100 not found.
C:\Users\Dhruv>curl -X "GET" https://localhost:7226/api/Student/ListStudentInfo?StudentId=-100"
Teacher with ID -100 not found.
C:\Users\Dhruv>
```

TeacherAPIController

1. **ListAllTeacherInfo**

```
C:\Users\Dhruv>curl -X "GET" "https://localhost:7226/api/Teacher/ListAllTeacherInfo"
[{"id":1,"firstName":"Alexander","lastName":"Bennett","employeeNumber":"T378","hireDate":"2016-08-05T00:00:00","salary":55.30},{"id":2,"firstName":"Caitlin","lastName":"Cummings","employeeNumber":"T381","hireDate":"2014-06-10T00:00:00","salary":62.77},{"id":3,"firstName":"Linda","lastName":"Chan","employeeNumber":"T382","hireDate":"2015-08-22T00:00:00","salary":60.22},{"id":4,"firstName":"Lauren","lastName":"Smith","employeeNumber":"T385","hireDate":"2014-06-22T00:00:00","salary":74.20},{"id":5,"firstName":"Jessica","lastName":"Morris","employeeNumber":"T389","hireDate":"2012-06-04T00:00:00","salary":48.62},{"id":6,"firstName":"Thomas","lastName":"Hawkins","employeeNumber":"T393","hireDate":"2016-08-10T00:00:00","salary":54.45},{"id":7,"firstName":"Shannon","lastName":"Barton","employeeNumber":"T397","hireDate":"2013-08-04T00:00:00","salary":64.70},{"id":8,"firstName":"Dana","lastName":"Ford","employeeNumber":"T401","hireDate":"2014-06-26T00:00:00","salary":71.15},{"id":9,"firstName":"Cody","lastName":"Holland","employeeNumber":"T403","hireDate":"2016-06-13T00:00:00","salary":43.20},{"id":10,"firstName":"John","lastName":"Taram","employeeNumber":"T505","hireDate":"2015-10-23T00:00:00","salary":79.63}]
C:\Users\Dhruv>
```

2. **ListAllTeacherInfoBtwDates**

```
C:\Users\Dhruv>curl -X "GET" "https://localhost:7226/api/Teacher/ListAllTeacherInfoBtwDates?FilterDateStart=2016-01-01&FilterDateEnd=2017-12-03"
[{"id":1,"firstName":"Alexander","lastName":"Bennett","employeeNumber":"T378","hireDate":"2016-08-05T00:00:00","salary":55.30},{"id":6,"firstName":"Thomas","lastName":"Hawkins","employeeNumber":"T393","hireDate":"2016-08-10T00:00:00","salary":54.45},{"id":9,"firstName":"Cody","lastName":"Holland","employeeNumber":"T403","hireDate":"2016-06-13T00:00:00","salary":43.20}]
```

   a. **Missing Parameter**

```
C:\Users\Dhruv>curl -X "GET" "https://localhost:7226/api/Teacher/ListAllTeacherInfoBtwDates?FilterDateStart=&FilterDateEnd="
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","status":400,"errors":{"FilterDateEnd":["The value '' is invalid."],"FilterDateStart":["The value '' is invalid."]},"traceId":"00-03c2797af21b1fc29f1ad77bfe20e54c-ed9084909ebd6115-00"}
C:\Users\Dhruv>
```

   b. **Empty Parameter**

```
C:\Users\Dhruv>curl -X "GET" "https://localhost:7226/api/Teacher/ListAllTeacherInfoBtwDates"
No entries found.
C:\Users\Dhruv>
```

   c. **Data Type (String, Float, Integer)**

```
C:\Users\Dhruv>curl -X "GET" "https://localhost:7226/api/Teacher/ListAllTeacherInfoBtwDates?FilterDateStart=cde&FilterDateEnd=abc"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","status":400,"errors":{"FilterDateEnd":["The value 'abc' is not valid."],"FilterDateStart":["The value 'cde' is not valid."]},"traceId":"00-0196d3810346f173006c80a64c5b9795-20253a0aa49c2c44-00"}
C:\Users\Dhruv>curl -X "GET" "https://localhost:7226/api/Teacher/ListAllTeacherInfoBtwDates?FilterDateStart=2&FilterDateEnd=1"
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.","status":400,"errors":{"FilterDateEnd":["The value '1' is not valid."],"FilterDateStart":["The value '2' is not valid."]},"traceId":"00-5fab14630bddbed76d7924114134067b-36f6365594dbb24c-00"}
C:\Users\Dhruv>curl -X "GET" "https://localhost:7226/api/Teacher/ListAllTeacherInfoBtwDates?FilterDateStart=2.2&FilterDateEnd=1.1"
No entries found.
```

   d. **Invalid Date Range**

```
C:\Users\Dhruv>curl -X "GET" "https://localhost:7226/api/Teacher/ListAllTeacherInfoBtwDates?FilterDateStart=2026-01-01&FilterDateEnd=2027-12-03"
No entries found.
C:\Users\Dhruv>
```