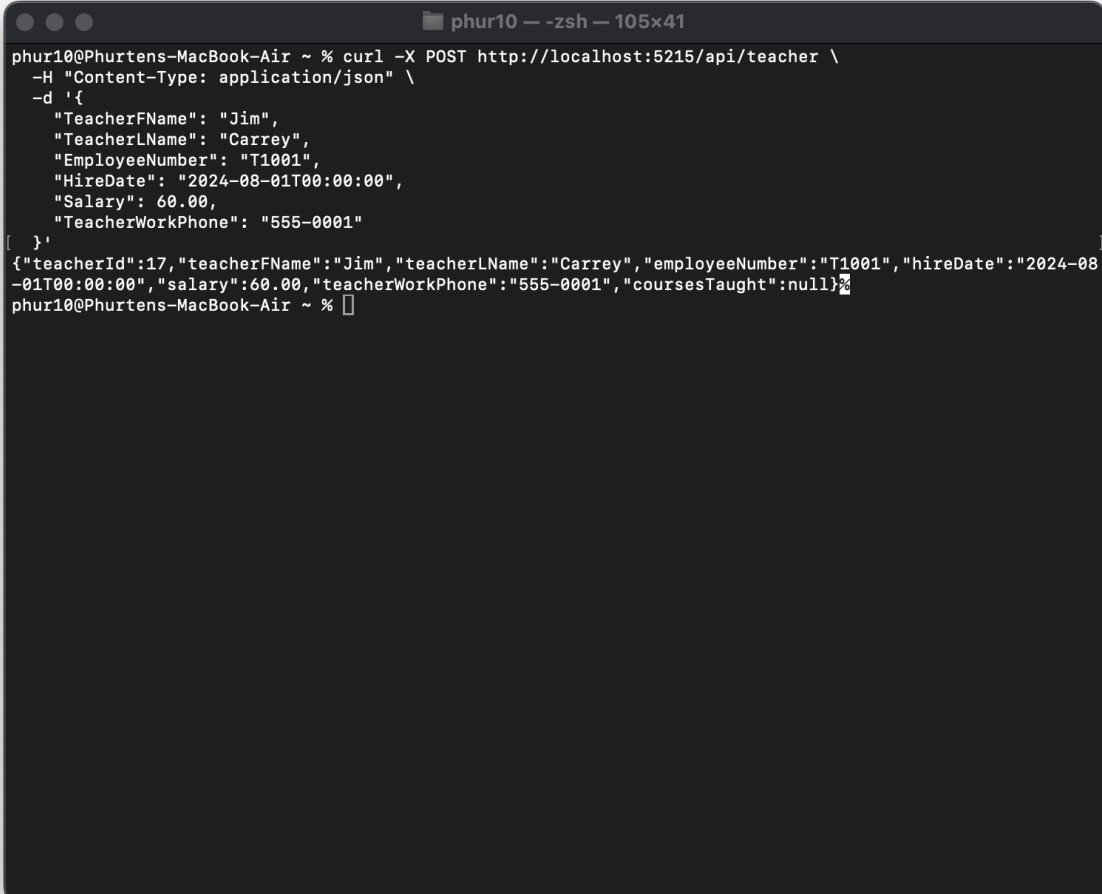


C# Cumulative 2 Testing Screenshots

Test Add API:

1. Valid Add

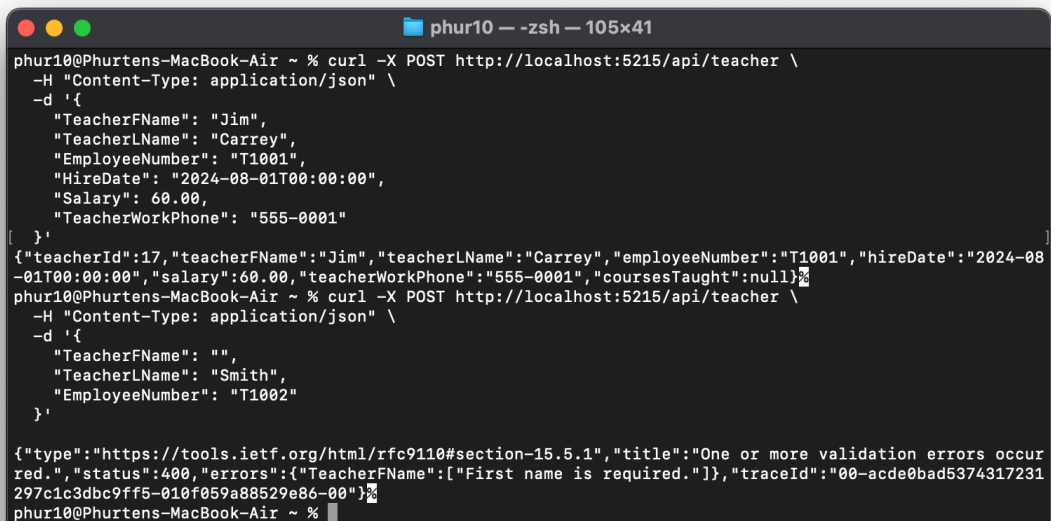
```
curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "Jim",  
  "TeacherLName": "Carrey",  
  "EmployeeNumber": "T1001",  
  "HireDate": "2024-08-01T00:00:00",  
  "Salary": 60.00,  
  "TeacherWorkPhone": "555-0001"  
}'
```



```
phur10@Phurtens-MacBook-Air ~ % curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "Jim",  
  "TeacherLName": "Carrey",  
  "EmployeeNumber": "T1001",  
  "HireDate": "2024-08-01T00:00:00",  
  "Salary": 60.00,  
  "TeacherWorkPhone": "555-0001"  
}'  
[{"teacherId":17,"teacherFName":"Jim","teacherLName":"Carrey","employeeNumber":"T1001","hireDate":"2024-08-01T00:00:00","salary":60.00,"teacherWorkPhone":"555-0001","coursesTaught":null}]  
phur10@Phurtens-MacBook-Air ~ %
```

2. Missing Required Field

```
curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "",  
  "TeacherLName": "Smith",  
  "EmployeeNumber": "T1002"  
}'
```

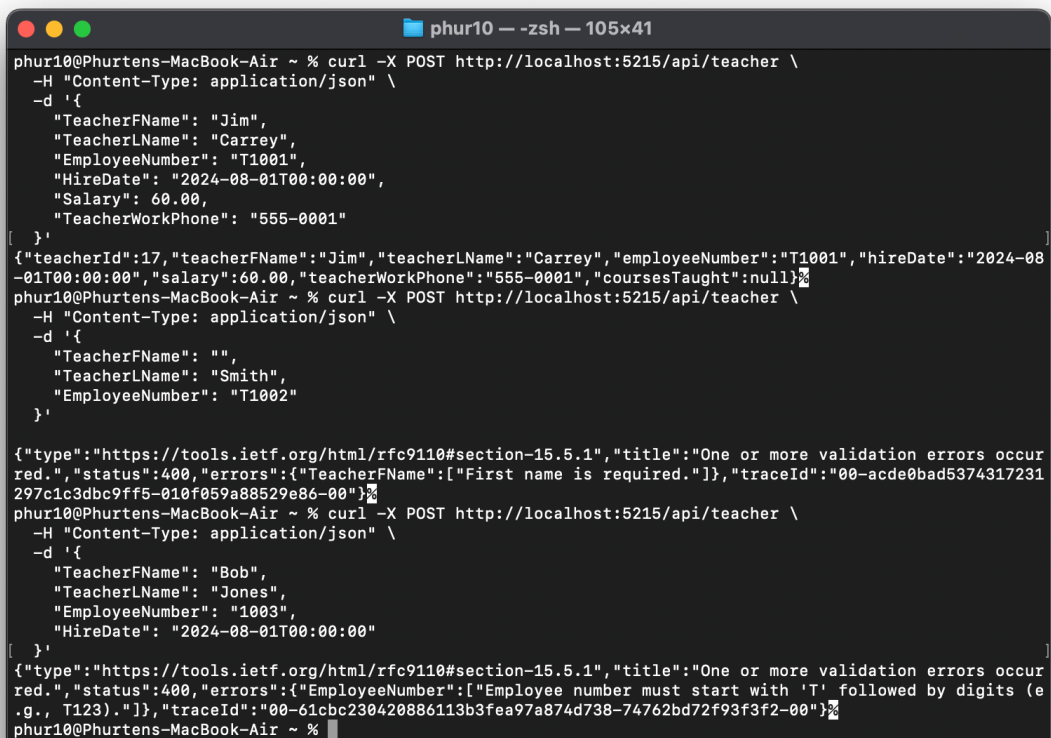


A terminal window titled "phur10 — zsh — 105x41" showing two curl commands and their responses. The first command sends a JSON object with fields: TeacherFName (Jim), TeacherLName (Carrey), EmployeeNumber (T1001), HireDate (2024-08-01T00:00:00), Salary (60.00), and TeacherWorkPhone (555-0001). The response is a JSON object with teacherId 17 and the same fields. The second command sends a JSON object with fields: TeacherFName (empty string), TeacherLName (Smith), and EmployeeNumber (T1002). The response is a JSON object with type, status (400), errors (First name is required.), and traceId.

```
phur10@Phurtens-MacBook-Air ~ % curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "Jim",  
  "TeacherLName": "Carrey",  
  "EmployeeNumber": "T1001",  
  "HireDate": "2024-08-01T00:00:00",  
  "Salary": 60.00,  
  "TeacherWorkPhone": "555-0001"  
}'  
{  
  "teacherId": 17,  
  "teacherFName": "Jim",  
  "teacherLName": "Carrey",  
  "employeeNumber": "T1001",  
  "hireDate": "2024-08-01T00:00:00",  
  "salary": 60.00,  
  "teacherWorkPhone": "555-0001",  
  "coursesTaught": null  
}  
phur10@Phurtens-MacBook-Air ~ % curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "",  
  "TeacherLName": "Smith",  
  "EmployeeNumber": "T1002"  
}'  
{  
  "type": "https://tools.ietf.org/html/rfc9110#section-15.5.1",  
  "title": "One or more validation errors occurred.",  
  "status": 400,  
  "errors": {  
    "TeacherFName": [ "First name is required." ]  
  },  
  "traceId": "00-acde0bad5374317231297c1c3dbc9ff5-010f059a88529e86-00"  
}
```

3. Invalid Employee Number Format

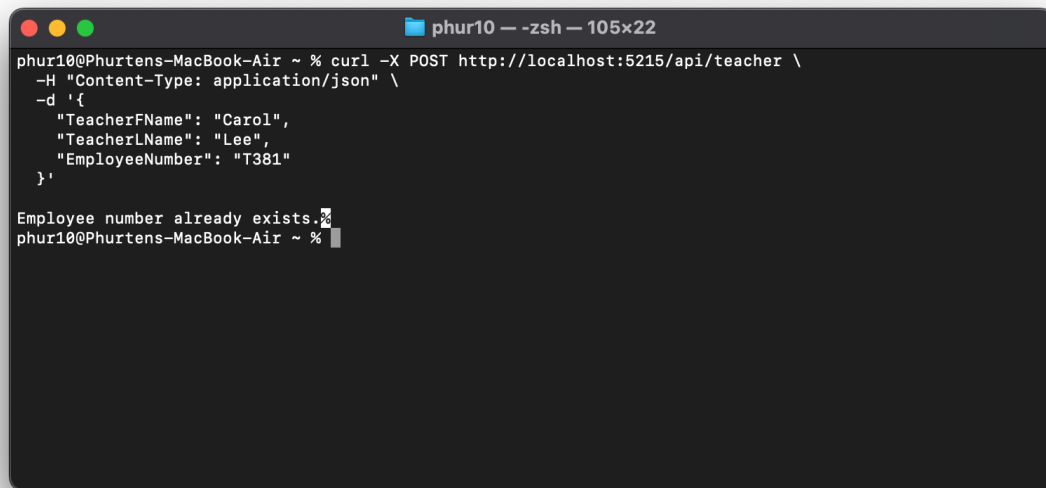
```
curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "Bob",  
  "TeacherLName": "Jones",  
  "EmployeeNumber": "1003",  
  "HireDate": "2024-08-01T00:00:00"  
}'
```



```
phur10@Phurtens-MacBook-Air ~ % curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "Jim",  
  "TeacherLName": "Carrey",  
  "EmployeeNumber": "T1001",  
  "HireDate": "2024-08-01T00:00:00",  
  "Salary": 60.00,  
  "TeacherWorkPhone": "555-0001"  
}'  
{"teacherId":17,"teacherFName":"Jim","teacherLName":"Carrey","employeeNumber":"T1001","hireDate":"2024-08-01T00:00:00","salary":60.00,"teacherWorkPhone":"555-0001","coursesTaught":null}  
phur10@Phurtens-MacBook-Air ~ % curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "",  
  "TeacherLName": "Smith",  
  "EmployeeNumber": "T1002"  
}'  
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred","status":400,"errors":{"TeacherFName":["First name is required."],"traceId":"00-acde0bad5374317231297c1c3dbc9ff5-010f059a88529e86-00"},"  
phur10@Phurtens-MacBook-Air ~ % curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "Bob",  
  "TeacherLName": "Jones",  
  "EmployeeNumber": "1003",  
  "HireDate": "2024-08-01T00:00:00"  
}'  
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred","status":400,"errors":{"EmployeeNumber":["Employee number must start with 'T' followed by digits (e.g., T123)."],"traceId":"00-61cbc230420886113b3fea97a874d738-74762bd72f93f3f2-00"},"  
phur10@Phurtens-MacBook-Air ~ %
```

4. Duplicate Employee Number

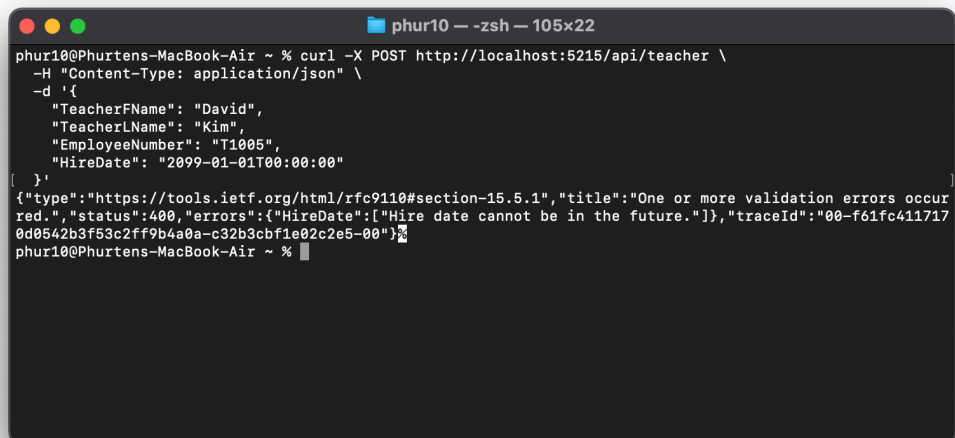
```
curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "Carol",  
  "TeacherLName": "Lee",  
  "EmployeeNumber": "T381"  
}'
```

A terminal window titled "phur10 — zsh — 105x22" on a Mac. The prompt is "phur10@Phurtens-MacBook-Air ~ %". The user enters a curl command to POST a JSON object to http://localhost:5215/api/teacher. The JSON object contains "TeacherFName": "Carol", "TeacherLName": "Lee", and "EmployeeNumber": "T381". The terminal output shows "Employee number already exists." followed by a cursor.

```
phur10@Phurtens-MacBook-Air ~ % curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "Carol",  
  "TeacherLName": "Lee",  
  "EmployeeNumber": "T381"  
}'  
  
Employee number already exists.  
phur10@Phurtens-MacBook-Air ~ %
```

5. Hire Date in the Future

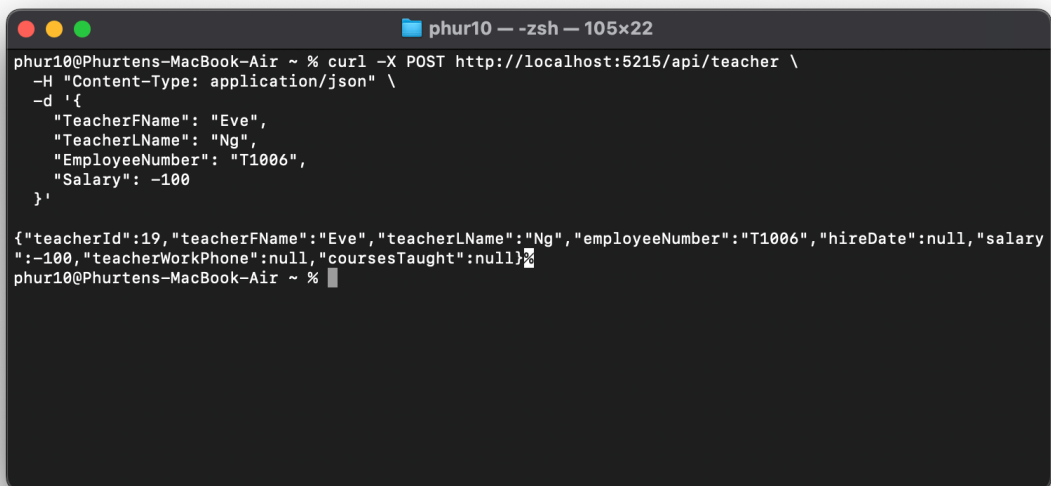
```
curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "David",  
  "TeacherLName": "Kim",  
  "EmployeeNumber": "T1005",  
  "HireDate": "2099-01-01T00:00:00"  
}'
```



```
phur10@Phurtens-MacBook-Air ~ % curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "David",  
  "TeacherLName": "Kim",  
  "EmployeeNumber": "T1005",  
  "HireDate": "2099-01-01T00:00:00"  
}'  
[{"type": "https://tools.ietf.org/html/rfc9110#section-15.5.1", "title": "One or more validation errors occurred.", "status": 400, "errors": {"HireDate": ["Hire date cannot be in the future."]}, "traceId": "00-f61fc4117170d0542b3f53c2ff9b4a0a-c32b3cbf1e02c2e5-00"}]  
phur10@Phurtens-MacBook-Air ~ %
```

6. Negative Salary

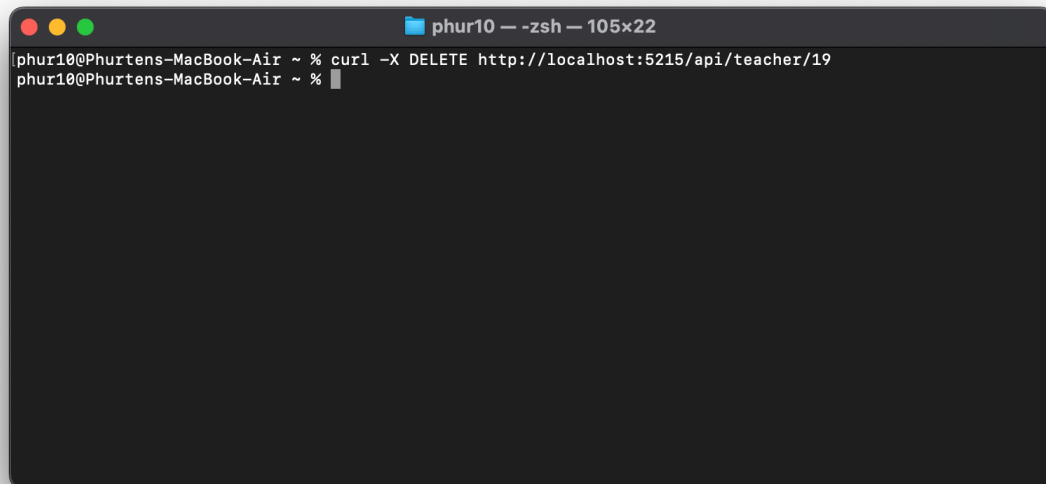
```
curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "Eve",  
  "TeacherLName": "Ng",  
  "EmployeeNumber": "T1006",  
  "Salary": -100  
'
```



```
phur10@Phurtens-MacBook-Air ~ % curl -X POST http://localhost:5215/api/teacher \  
-H "Content-Type: application/json" \  
-d '{  
  "TeacherFName": "Eve",  
  "TeacherLName": "Ng",  
  "EmployeeNumber": "T1006",  
  "Salary": -100  
'  
  
{  
  "teacherId": 19, "teacherFName": "Eve", "teacherLName": "Ng", "employeeNumber": "T1006", "hireDate": null, "salary": -100, "teacherWorkPhone": null, "coursesTaught": null  
}
```

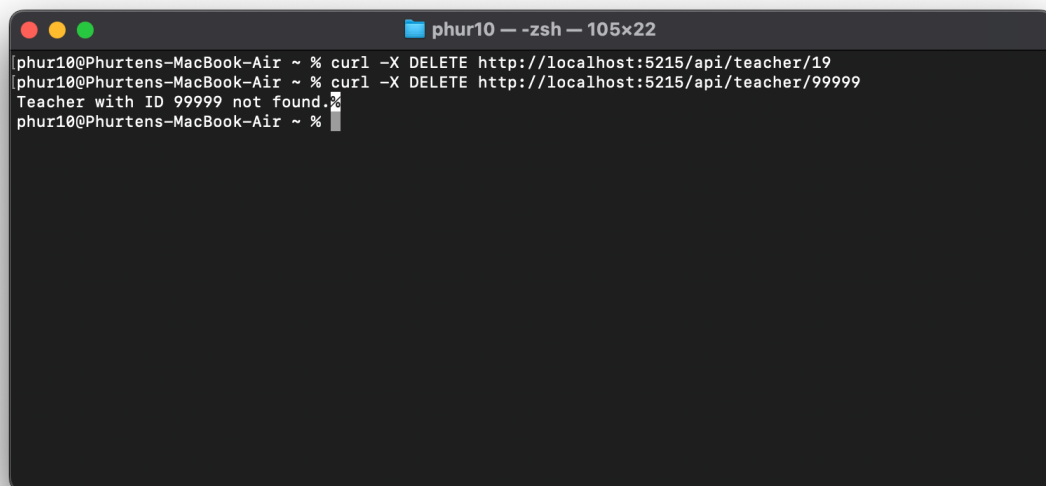
Test Delete API

`curl -X DELETE http://localhost:5215/api/teacher/19`

A terminal window titled "phur10 — zsh — 105x22" on a Mac. The prompt is "phur10@Phurtens-MacBook-Air ~ %". The user enters the command "curl -X DELETE http://localhost:5215/api/teacher/19". The prompt returns to "phur10@Phurtens-MacBook-Air ~ %" without any output, indicating a successful deletion.

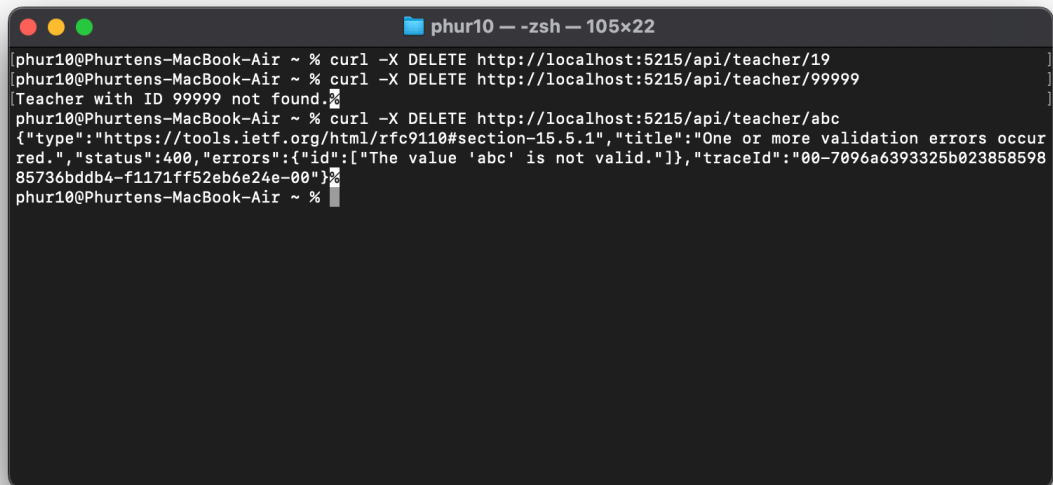
```
phur10@Phurtens-MacBook-Air ~ % curl -X DELETE http://localhost:5215/api/teacher/19
phur10@Phurtens-MacBook-Air ~ %
```

`curl -X DELETE http://localhost:5215/api/teacher/99999`

A terminal window titled "phur10 — zsh — 105x22" on a Mac. The prompt is "phur10@Phurtens-MacBook-Air ~ %". The user enters the command "curl -X DELETE http://localhost:5215/api/teacher/19". The prompt returns to "phur10@Phurtens-MacBook-Air ~ %". The user then enters the command "curl -X DELETE http://localhost:5215/api/teacher/99999". The prompt returns to "phur10@Phurtens-MacBook-Air ~ %" with the output "Teacher with ID 99999 not found.", indicating an error.

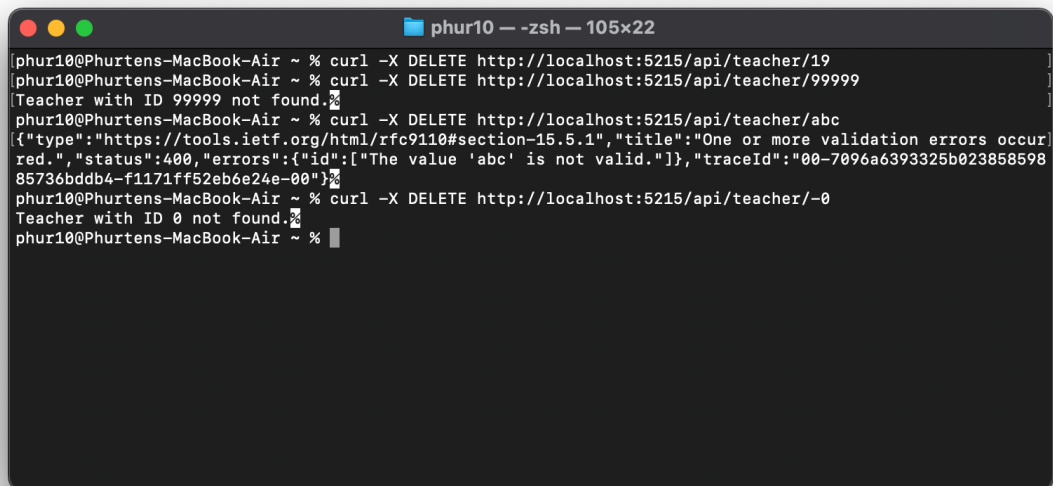
```
phur10@Phurtens-MacBook-Air ~ % curl -X DELETE http://localhost:5215/api/teacher/19
phur10@Phurtens-MacBook-Air ~ % curl -X DELETE http://localhost:5215/api/teacher/99999
Teacher with ID 99999 not found.
phur10@Phurtens-MacBook-Air ~ %
```

curl -X DELETE http://localhost:5215/api/teacher/abc



```
phur10@Phurtens-MacBook-Air ~ % curl -X DELETE http://localhost:5215/api/teacher/19
phur10@Phurtens-MacBook-Air ~ % curl -X DELETE http://localhost:5215/api/teacher/99999
Teacher with ID 99999 not found.
phur10@Phurtens-MacBook-Air ~ % curl -X DELETE http://localhost:5215/api/teacher/abc
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.", "status":400, "errors":{"id":["The value 'abc' is not valid."]}, "traceId":"00-7096a6393325b02385859885736bddb4-f1171ff52eb6e24e-00"}
phur10@Phurtens-MacBook-Air ~ %
```

curl -X DELETE http://localhost:5215/api/teacher/-0



```
phur10@Phurtens-MacBook-Air ~ % curl -X DELETE http://localhost:5215/api/teacher/19
phur10@Phurtens-MacBook-Air ~ % curl -X DELETE http://localhost:5215/api/teacher/99999
Teacher with ID 99999 not found.
phur10@Phurtens-MacBook-Air ~ % curl -X DELETE http://localhost:5215/api/teacher/abc
{"type":"https://tools.ietf.org/html/rfc9110#section-15.5.1","title":"One or more validation errors occurred.", "status":400, "errors":{"id":["The value 'abc' is not valid."]}, "traceId":"00-7096a6393325b02385859885736bddb4-f1171ff52eb6e24e-00"}
phur10@Phurtens-MacBook-Air ~ % curl -X DELETE http://localhost:5215/api/teacher/-0
Teacher with ID 0 not found.
phur10@Phurtens-MacBook-Air ~ %
```


Web Add Page

CSharpSchoolMVC

HomePrivacy

Add New Teacher

TeacherFName

TeacherLName

EmployeeNumber

HireDate

08/01/2025

Salary

TeacherWorkPhone

Create

Cancel

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CSharpSchoolMVC

HomePrivacy

Add New Teacher

TeacherFName

First name is required.

TeacherLName

Last name is required.

EmployeeNumber

Employee number is required.

HireDate

08/02/2025

Hire date cannot be in the future.

Salary

TeacherWorkPhone

Create

Cancel

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Delete Confirm Page

Humber

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CSharpSchoolMVC Home Privacy

Delete Teacher

Are you sure you want to delete this teacher?

First Name	Jim
Last Name	Carrey
Employee Number	T1001
Hire Date	2024-08-01
Salary	60.00

Delete

Cancel

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Search by Hiring Date

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CSharpSchoolMVC Home Privacy

Teachers List

Add New Teacher

Hire Date From:
01/01/2016

To:
08/02/2025

Search

First Name	Last Name	Employee Number	Hire Date	Salary	Work Phone	Actions
Alexander	Bennett	T378	2016-08-05	55.30		<div>DetailsDelete</div>
Caitlin	Cummings	T381	2014-06-10	62.77		<div>DetailsDelete</div>
Linda	Chan	T382	2015-08-22	60.22		<div>DetailsDelete</div>
Lauren	Smith	T385	2014-06-22	74.20		<div>DetailsDelete</div>
Jessica	Morris	T389	2012-06-04	48.62		<div>DetailsDelete</div>
Thomas	Hawkins	T393	2016-08-10	54.45		<div>DetailsDelete</div>
Shannon	Barton	T397	2013-08-04	64.70		<div>DetailsDelete</div>
Dana	Ford	T401	2014-06-26	71.15		<div>DetailsDelete</div>
Cody	Holland	T403	2016-06-13	43.20		<div>DetailsDelete</div>
John	Taram	T505	2015-10-23	79.63		<div>DetailsDelete</div>
Test	User	T999	2024-08-01	55.00		<div>DetailsDelete</div>
Jim	Carrey	T1001	2024-08-01	60.00		<div>DetailsDelete</div>

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CSharpSchoolMVC Home Privacy

Teachers List

Add New Teacher

Hire Date From:
08/01/2025

To:
08/01/2025

Search

First Name	Last Name	Employee Number	Hire Date	Salary	Work Phone	Actions
Alexander	Bennett	T378	2016-08-05	55.30		<div>DetailsDelete</div>
Thomas	Hawkins	T393	2016-08-10	54.45		<div>DetailsDelete</div>
Cody	Holland	T403	2016-06-13	43.20		<div>DetailsDelete</div>
Test	User	T999	2024-08-01	55.00	555-1234	<div>DetailsDelete</div>
Jim	Carrey	T1001	2024-08-01	60.00	555-0001	<div>DetailsDelete</div>

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