Teacher API & Web Tests

<mark>APIs</mark>

1. API to List All Teachers:

curl-X GET http://localhost:5288/api/TeacherAPI

2. API to Find Teacher by ID:

curl-X GET http://localhost:5288/api/TeacherAPI/1

3. API to Add a teacher:

curl-X POST http://localhost:5288/api/TeacherAPI-H "Content-Type: application/json"-d "{""name"":""Mark Smith"",""hireDate"":""2024-01-

05T00:00:00"",""subject"":""Physics"",""employeeNumber"":""T9199"",""teacherWorkPhone"":""111-222-3333""}"

```
C:Sashil\Assignment_4_Sashil\SchoolAPI>curl -X POST http://localhost:5288/api/TeacherAPI -H "Content-Type: application/json" -d "{""name"":""Nark Smith"", ""hireDate"":""
2024-01-05T00:00:00"", ""subject"":"Physics"", ""employeeNumber":""T9199"", ""teacherWorkPhone":""111-222-3333""}"

"sid: '1", "teacherId':10,
"name": "Nark Smith", "sashith", "sashith, "sashith", "sashi
```

4. API to Delete a teacher:

curl-X DELETE http://localhost:5288/api/TeacherAPI/3

```
C:\Saahil\Assignment_4_Saahil\SchoolAPI>curl -X DELETE http://localhost:5288/api/TeacherAPI/10

"$id": "1",
"message": "Teacher successfully deleted.",
"teacherId": 10

}
C:\Saahil\Assignment_4_Saahil\SchoolAPI>
```

5. API for Error while Add a Teacher with Missing Name:

curl-X POST http://localhost:5288/api/TeacherAPI-H "Content-Type: application/json"-d "{""name"":""",""hireDate"":""2024-01-05T00:00:00"",""subject"":""Physics"",""employeeNumber"":""T9001"",""teacherWorkPhone"":""111-222-3333""}"

6. API for Error while Add a Teacher with Future Hire Date:

curl-X POST http://localhost:5288/api/TeacherAPI-H "Content-Type: application/json"-d "{""name"":""Future Teacher"",""hireDate"":""2026-05-

10T00:00:00"",""subject"":""Biology"",""employeeNumber"":""T12345"",""teacherWorkPhone"":""555-555-5555""}"

```
C:\Saahi\\Assignment_U_Saahi\\SchoolAPI>curl -X POST http://localhost:5288/api/TeacherAPI -H "Content-Type: application/json" -d "{""name"":"Future Teacher",""hireDate"":"2826-85-18780:80:80:"0," "subject":
"#Sidology", "*employeeNumber":""123HS", ""teacherWorkPhone":""555-555-5555")"

* *sid": *1",
"#essage": "Error: Hire date cannot be in the future."

C:\Saahi\\Assignment_U_Saahi\\SchoolAPID|
```

7. API for Error while Add a Teacher with Invalid Employee Number:

curl-X POST http://localhost:5288/api/TeacherAPI-H "Content-Type: application/json"-d "{""name"":""Invalid Employee"",""hireDate"":""2023-06-

15T00:00:00"",""subject"":""History"",""employeeNumber"":""ABC123"",""teacherWorkPhone"":""555-666-7777""}"

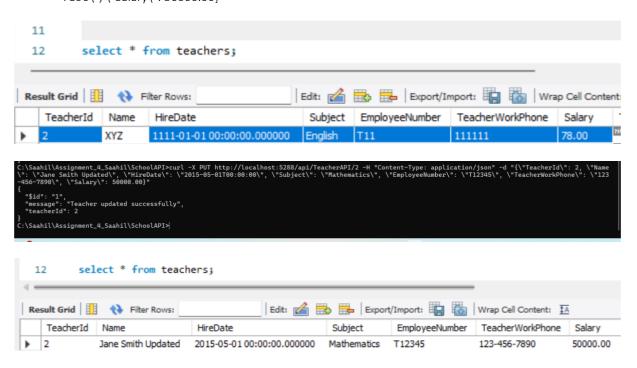
8. API for Delete Teacher that do not exists:

curl-X DELETE http://localhost:5288/api/TeacherAPI/9999

```
C:\Saahil\Assignment_4_Saahil\SchoolAPI>curl -X DELETE http://localhost:5288/api/TeacherAPI/9999

{
    "$id": "1",
    "message": "Error: Teacher not found.",
    "teacherId": 9999
}
C:\Saahil\Assignment_4_Saahil\SchoolAPI>
```

9. API which Updates a Teacher curl -X PUT http://localhost:5288/api/TeacherAPI/2 -H "Content-Type: application/json" -d "{\"TeacherId\": 2, \"Name\": \"Jane Smith Updated\", \"HireDate\": \"2015-05-01T00:00:00\", \"Subject\": \"Mathematics\", \"EmployeeNumber\": \"T12345\", \"TeacherWorkPhone\": \"123-456-7890\", \"Salary\": 50000.00}"



10. Update when the Teacher Hire Date is in the future

```
C:\Saahi\\Assignment_4_Saahi\\SchoolAPI>curl -X PUT http://localhost:5288/api/TeacherAPI/2 -H "Content-Type: application/json" -d "{\"TeacherId\": 2, \"Name\": \"Jane Saith Updated\", \"HireDate\": \"2025-05-01T00:00:00\", \"Subject\": \"Mathematics\", \"EmployeeNumber\": \"712345\", \"TeacherWorkPhone\": \"12345\", \"TeacherWor
```

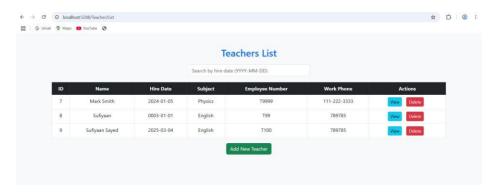
11. Update when the Salary is less than 0

```
C:\Saahil\Assignment_U_Saahil\SchoolAPI>curl -X PUT http://localhost:5288/api/TeacherAPI/2 -H "Content-Type: application/json" -d "{\"TeacherId\": 2, \"Name \\": \"Jame Smith Updated\": \"Hirdate\": \"2015-08-00180:00\", \"Subject\": \"Hathematics\", \"EmployeeNumber\": \"1123H3\", \"TeacherWorkPhone\": \"123 H3\", \"TeacherWorkPhone\": \"123 H
```

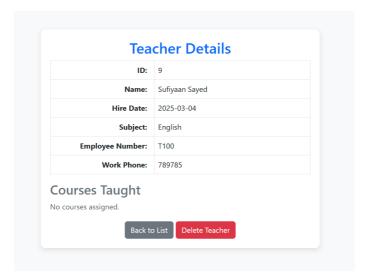
12. Update when the Teacher Name is empty

Web Page

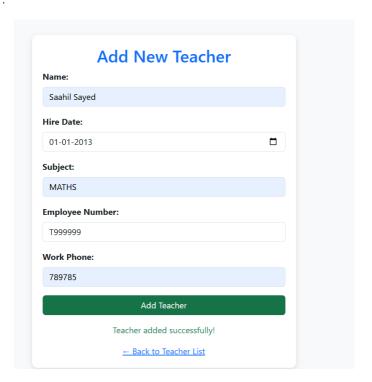
1. Display All Teachers:



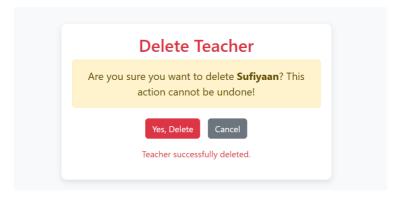
2. Display Single Teacher:



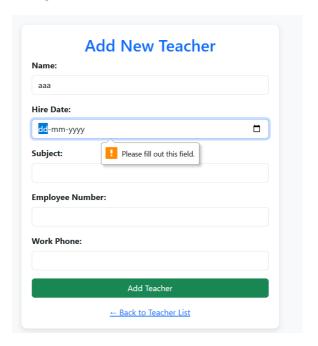
3. Add New Teacher:



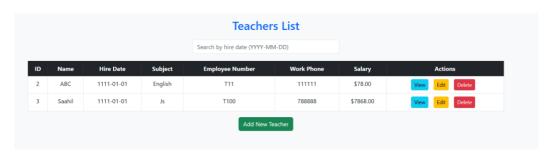
4. Delete Teacher:

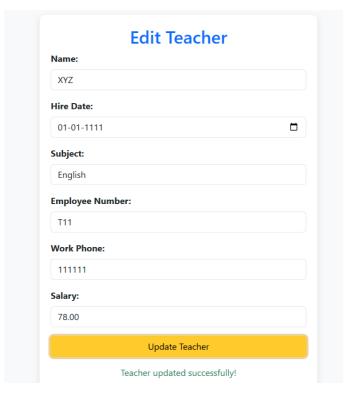


5. Try to Add Teacher with Missing Fields



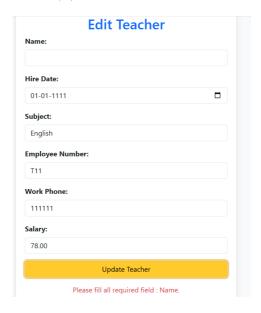
6. Update Teacher



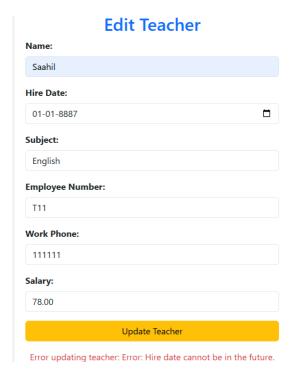




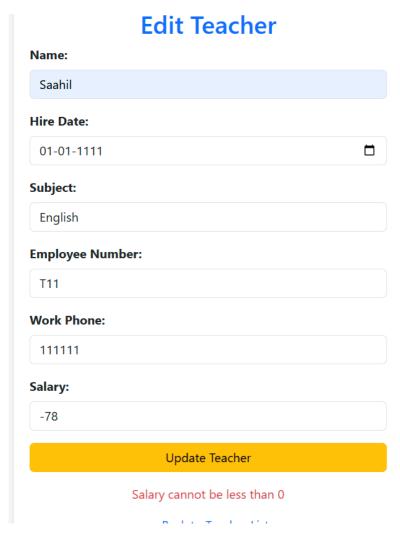
7. Update when the Teacher Name is empty



8. Update when the Teacher Hire Date is in the future



9. Update when the Salary is less than 0



Student API

1. API to List All Students:

curl-X GET http://localhost:5288/api/StudentAPI

2. API to Find Student by ID:

curl-X GET http://localhost:5288/api/StudentAPI/2

```
}
C:\Saahil\Assignment_4_Saahil\SchoolAPI>curl -X GET http://localhost:5288/api/StudentAPI/2
{
    "$id": "1",
    "studentId": 2,
    "name": "Mili",
    "enrollmentDate": "2023-09-01T00:00:00"
}
C:\Saahil\Assignment_4_Saahil\SchoolAPI>
```

3. API to Add a Student

curl-X POST http://localhost:5288/api/StudentAPI-H "Content-Type: application/json"-d "{""name"":""Mili"",""enrollmentDate"":""2023-09-01T00:00:00""}"

```
C:\Saahil\Assignment_@.Saahil\SchoolAPI>curl -X POST http://localhost:5288/api/StudentAPI -H "Content-Type: application/json" -d "{""name"":"Mili"", ""enrollmentDate"":"2023-09-01700:00:00"")"
"$identId": 2,
"name": "Mili",
"enrollmentDate": "2023-09-01700:00:00"

C:\Saahil\Assignment_@.Saahil\SchoolAPI>|
```

4. API to Delete a student:

curl-X DELETE http://localhost:5288/api/StudentAPI/1

```
C:\Saahil\Assignment_4_Saahil\SchoolAPI>curl -X DELETE http://localhost:5288/api/StudentAPI/1

{
    "$id": "1",
    "message": "Student successfully deleted.",
    "studentId": 1
}
C:\Saahil\Assignment_4_Saahil\SchoolAPI>
```

5. API Error while Add a Student with Missing Name

```
curl-X POST http://localhost:5288/api/StudentAPI-H "Content-Type: application/json"-d "{""name"":"""",""enrollmentDate"":""2023-09-01T00:00:00""}"
```

6. API-to Delete Student that do not exists:

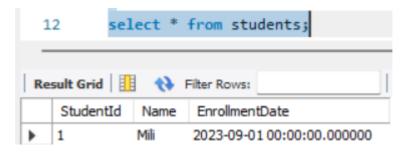
curl-X DELETE http://localhost:5288/api/StudentAPI/9999

```
C:\Saahil\Assignment_4_Saahil\SchoolAPI>curl -X DELETE http://localhost:5288/api/StudentAPI/9999

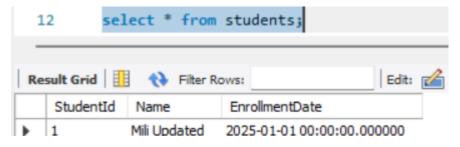
{
    "$id": "1",
    "message": "Error: Student not found.",
    "studentId": 9999

}
C:\Saahil\Assignment_4_Saahil\SchoolAPI>
```

7. Update Functionality Students curl -X PUT http://localhost:5288/api/StudentAPI/1 -H "Content-Type: application/json" -d "{\"StudentId\": 1, \"Name\": \"Mili Updated\", \"EnrollmentDate\": \"2025-01-01T00:00:00\"}"







Course API

1. API to List All Courses:

curl-X GET http://localhost:5288/api/CourseAPI

2. API to Find Course by ID:

curl-X GET http://localhost:5288/api/CourseAPI/5

```
C:\Saahil\Assignment_4_Saahil\SchoolAPI>curl -X GET http://localhost:5288/api/CourseAPI/5

{
    "$id": "1",
    "courseId": 5,
    "courseName": "Introduction to AI",
    "teacherId": 7,
    "teacher": null
}
C:\Saahil\Assignment_4_Saahil\SchoolAPI>
```

3. API to Add a Course

curl-X POST http://localhost:5288/api/CourseAPI-H "Content-Type: application/json"-d "{""courseName"":""Introduction to AI"", ""teacherId"": 7}"

4. API to Delete a Course:

curl-X DELETE http://localhost:5288/api/CourseAPI/5

```
}
C:\Saahil\Assignment_4_Saahil\SchoolAPI>curl -X DELETE http://localhost:5288/api/CourseAPI/5

{
    "$id": "1",
    "message": "Course successfully deleted.",
    "courseId": 5
}
C:\Saahil\Assignment_4_Saahil\SchoolAPI>
```

5. API to add a Course with Missing Name

curl-X POST http://localhost:5288/api/CourseAPI-H "Content-Type: application/json"-d "{""courseName"":"""",""teacherId"":""1""}"

6. API to Delete Non-Existent Course

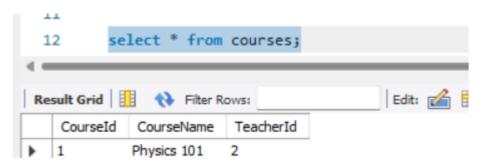
curl-X DELETE http://localhost:5288/api/CourseAPI/9999

```
C:\Saahil\Assignment_4_Saahil\SchoolAPI>curl -X DELETE http://localhost:5288/api/CourseAPI/9999

{
    "$id": "1",
    "message": "Error: Course not found.",
    "courseId": 9999
}
C:\Saahil\Assignment_4_Saahil\SchoolAPI>
```

7. Update Functionality Courses

curl -X PUT http://localhost:5288/api/CourseAPI/1 -H "Content-Type: application/json" -d "{\"CourseId\": 1, \"CourseName\": \"Physics 102 - Updated\", \"TeacherId\": 1}"



C:\Saahi\\Assignment_4_Saahi\\SchoolAPI>curl -X PUT http://localhost:\$288/api/CourseAPI/1 -H "Content-Type: application/json" -d "{\"CourseId\": 1, \"Course Name\": \"Physics 102 - Updated\", \"TeacherId\": 2}"

"\$idd: "1",
"message": "Course updated successfully",
"courseId": 1
}
C:\Saahi\\Assignment_4_Saahi\\SchoolAPI>

