**Student Class REST API**

This REST API is used to manage students and classes. We can use this API to create/update/get students and assigning classes to students using the http end points as mentioned below

**Request Endpoints**

|  |  |  |
| --- | --- | --- |
| Method | URL | Purpose |
| GET | http://localhost:56156/api/student | Get All Students |
| GET | http://localhost:56156/api/student?id=<value> | Get Student Based on ID |
| POST | http://localhost:56156/api/student | Add new Student |
| PUT | http://localhost:56156/api/student | Update existing student |
| DELETE | http://localhost:56156/api/student?id=1 | Delete Student |
| POST | http://localhost:56156/api/assignclasses | Assign Classes to students |
| DELETE | http://localhost:56156/api/removeclasses | Remove Classes from Students |
| GET | http://localhost:56156/api/class?studentid=1 | Get the classes assigned to student |

**Examples**

**Get All Students**

**Method Type:** GET

**Request URL:** <http://localhost:56156/api/student>

**Success Response:**

200 OK

[{"StudentID":1,"Firstname":"Nadeem","Lastname":"Shaik"},{"StudentID":3,"Firstname":"firstname","Lastname":"last"},{"StudentID":5,"Firstname":"TestGRD","Lastname":"LAstGRD"},{"StudentID":6,"Firstname":"TestGRD","Lastname":"LAstGRD"}]

**Get Student Based on ID**

**Method Type:** GET

**Request URL:** <http://localhost:56156/api/student?id=1>

**Success Response:**

200 OK

{"StudentID":1,"Firstname":"Nadeem","Lastname":"Shaik"}

**Add new Student**

**Method Type:** POST

**Content Type:** application/json

**Request URL:** <http://localhost:56156/api/student>

**Request Body:**

{ "Firstname": "Nadeem", "Lastname": "Shaik"}

**Success Response:**

200 OK

"Student saved successfully(studentid:8)"

**Update Student**

**Method Type:** PUT

**Content Type:** application/json

**Request URL:** <http://localhost:56156/api/student>

**Request Body:**

{“StudentID”: 1, "Firstname": "Nadeem", "Lastname": "Sk"}

**Success Response:**

200 OK

"Student updated successfully(studentid:1)"

**Delete Student**

**Method Type:** DELETE

**Request URL:** <http://localhost:56156/api/student?id=1>

**Success Response:**

200 OK

"Student deleted successfully(studentid:1)"

**Assign classes to students**

**Method Type:** POST

**Content Type:** application/json

**Request URL:** <http://localhost:56156/api/assignclasses>

**Request Body:** Here we can use this method to assign classes to multiple students or multiple classes to single student or single class to single student using the array object in the request body

**Sample Request1**:

[ { "StudentID": 2, "ClassID": 1}]

**Success Response1:**

200 OK

"Successfully assigned classes to students: StudentID:2 to ClassID:1"

**Sample Request2:**

[ { "StudentID": 2, "ClassID": 1}, { "StudentID": 2, "ClassID": 2}, { "StudentID": 4, "ClassID": 1}]

**Success Response2:**

200 OK

"Successfully assigned classes to students: StudentID:2 to ClassID:1, StudentID:2 to ClassID:2, StudentID:4 to ClassID:1"

**Remove classes from students**

**Method Type:** DELETE

**Content Type:** application/json

**Request URL:** <http://localhost:56156/api/removeclasses>

**Request Body:** Here we can use this method to remove classes from multiple students or multiple classes from single student or single class from single student using the array object in the request body

**Sample Request1**:

[ { "StudentID": 2, "ClassID": 1}]

**Success Response1:**

200 OK

"Successfully deleted classes from students: StudentID:2 to ClassID:1"

**Sample Request2:**

[ { "StudentID": 2, "ClassID": 1}, { "StudentID": 2, "ClassID": 2}, { "StudentID": 4, "ClassID": 1}]

**Success Response2:**

200 OK

"Successfully assigned classes from students: StudentID:2 to ClassID:1, StudentID:2 to ClassID:2, StudentID:4 to ClassID:1"

**Get the classes assigned to student**

**Method Type:** GET

**Request URL:** [http://localhost:56156/api/class?studentid=3](http://localhost:56156/api/student)

**Success Response:**

200 OK

[{"ClassID":1,"Code":"CC1","Title":"Chemistry","Description":"Chemistry related classes"},{"ClassID":4,"Code":"CC3","Title":"Science","Description":"test"}]