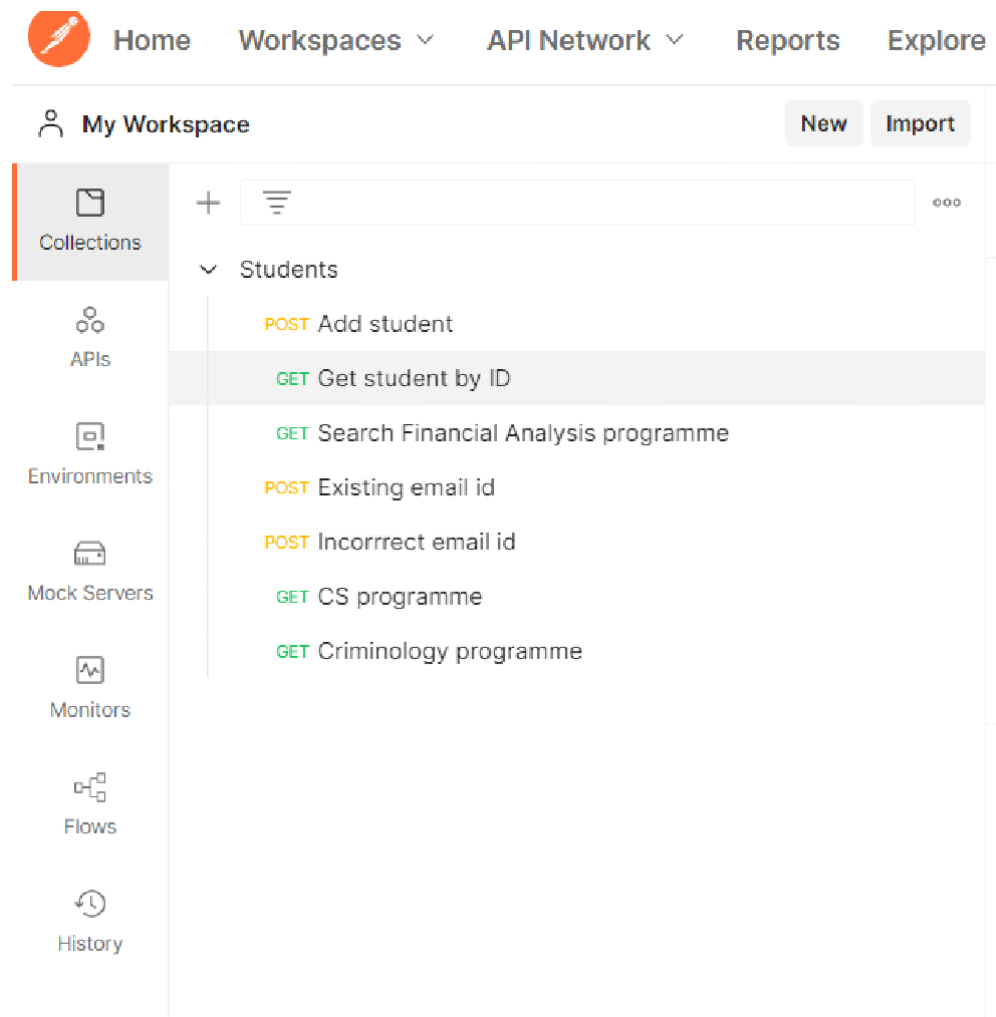


## 1) Create new collection and map the API's in the same folder

'Student' collection



## 2) Post any student Data and get the created data by Student ID

Post data->

POST

▼

http://localhost:8080/student

Params

Authorization

Headers (8)

Body ●

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON ▼

1

}

2

.. "id": 101,

3

.. "firstName": "Ben",

4

.. "lastName": "Frank",

5

.. "email": "ben.frank@Duisac.net",

6

.. "programme": "Financial Analysis",

7

.. "courses": [

8

.... "Accounting",

9

.... "Statistics"

10

.. ]

11

}

Body

Cookies

Headers (4)

Test Results

Pretty

Raw

Preview

Visualize

JSON ▼



1

}

2

.. "msg": "Student added"

3

}

Get

GET

▼

http://localhost:8080/student/101

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Query Params

	KEY	VALUE
	Key	Value

Body Cookies Headers (3) Test Results

Pretty

Raw

Preview

Visualize

JSON ▼

↺

```
1  {
2    "id": 101,
3    "firstName": "Ben",
4    "lastName": "Frank",
5    "email": "ben.frank@Duisac.net",
6    "programme": "Financial Analysis",
7    "courses": [
8      "Accounting",
9      "Statistics"
10   ]
11 }
```

### 3) Fetch the data only by programme "Financial Analysis"

http://localhost:8080/student/?programme=Financial Analysis

Save

GET

▼

http://localhost:8080/student/?programme=Financial Analysis

Send

Params

Authorization

Headers (7)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	KEY	VALUE	...	Bulk Edit
<input checked="" type="checkbox"/>	programme	Financial Analysis		
	Key	Value		

Body

Cookies

Headers (3)

Test Results

Status: 200 OK Time: 7 ms Size: 2.01 KB [Save Response](#)

Pretty

Raw

Preview

Visualize

```
[{"id":1,"firstName":"Vernon","lastName":"Harper","email":"egestas.rhonus.Proin@massaQuisqueporttitor.org","programme":"Financial Analysis","courses":["Accounting","Statistics"]}, {"id":2,"firstName":"Murphy","lastName":"Holmes","email":"faucibus.orci.lucius@Duisac.net","programme":"Financial Analysis","courses":["Accounting","Statistics"]}, {"id":10,"firstName":"Todd","lastName":"Beck","email":"Fusce.dolor.quam@commodoauctor.org","programme":"Financial Analysis","courses":["Accounting","Statistics"]}, {"id":15,"firstName":"Hakeem","lastName":"Fitzgerald","email":"accumsan@luctuset.edu","programme":"Financial Analysis","courses":["Accounting","Statistics"]}, {"id":22,"firstName":"Kerinan","lastName":"Jacob","email":"vel.vulputate@vitaeclorDonec.ca","programme":"Financial Analysis","courses":["Accounting","Statistics"]}, {"id":58,"firstName":"Nero","lastName":"Ulysses","email":"inceptos.hymenaeos.Mauris@Proin.edu","programme":"Financial Analysis","courses":["Accounting","Statistics"]}, {"id":62,"firstName":"Abel","lastName":"Garrett","email":"rhoncus@sociisnatoquepenatibus.ca","programme":"Financial Analysis","courses":["Accounting","Statistics"]}, {"id":75,"firstName":"Baker","lastName":"Cairo","email":"fermentum@diam.com","programme":"Financial Analysis","courses":["Accounting","Statistics"]}, {"id":92,"firstName":"Walter","lastName":"Arsenio","email":"a.ultrices@duiFusce.edu","programme":"Financial Analysis","courses":["Accounting","Statistics"]}, {"id":94,"firstName":"Evan","lastName":"Yoshio","email":"sapien.gravida.non@noncursus.com","programme":"Financial Analysis","courses":["Accounting","Statistics"]}, {"id":101,"firstName":"Ben","lastName":"Frank","email":"ben.frank@Duisac.net","programme":"Financial Analysis","courses":["Accounting","Statistics"]}, {"id":102,"firstName":"Peter","lastName":"","email":"peter@Duisac.net","programme":"Financial Analysis","courses":["Accounting","Statistics"]}]]
```

4) Post student data with existing email Id and check for the error message. Mention the test script.

The screenshot shows a REST client interface. At the top, a POST request is configured to `http://localhost:8080/student`. The 'Body' tab is selected, and the request body is a JSON object: 

```
{  "id": 111,  "firstName": "Sam",  "lastName": "Sung",  "email": "peter@Duisac.net",  "programme": "Financial Analysis",  "courses": [    "Accounting",    "Statistics"  ]}
```

. Below the request, the 'Body' tab of the response is selected, showing a JSON error message: 

```
{  "error": "Email address already exists"}
```

. A red arrow points to the error message.

POST `http://localhost:8080/student`

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "id": 111,
3   "firstName": "Sam",
4   "lastName": "Sung",
5   "email": "peter@Duisac.net",
6   "programme": "Financial Analysis",
7   "courses": [
8     "Accounting",
9     "Statistics"
10  ]
11 }
```

Body Cookies Headers (4) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "error": "Email address already exists"
3 }
```

Test script:

POST

http://localhost:8080/student

Params

Authorization

Headers (8)

Body ●

Pre-request Script

Tests ●

Se

1

pm.test("Successful POST request", function () {

2

pm.expect(pm.response.code).to.be.oneOf([201, 202]);

3

});

Body

Cookies

Headers (4)

Test Results (0/1)

500 Internal Serve

All

Passed

Skipped

Failed

FAIL

Successful POST request | AssertionError: expected 500 to be one of [ 201, 202 ]

5) Post student data with an incorrect format of email Id and check for the error message. Mention the test script.

POST http://localhost:8080/student

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "id": 103,
3   "firstName": "Stuart",
4   "lastName": "Little",
5   "email": "Stuartlittle123.net",
6   "programme": "Financial Analysis",
7   "courses": [
8     "Accounting",
9     "Statistics"
10  ]
11 }
```

Body Cookies Headers (4) Test Results (0/1)

Pretty Raw Preview Visualize JSON

```
1 {
2   "error": "Please correct the following errors",
3   "fieldErrors": {
4     "email": "not a well-formed email address"
5   }
6 }
```

Test Script->

POST http://localhost:8080/student

Params Authorization Headers (8) Body Pre-request Script **Tests** Settings

```
1 pm.test("Successful POST request", function () {
2   pm.expect(pm.response.code).to.be.oneOf([201, 202]);
3 });
```

Body Cookies Headers (4) Test Results (0/1)

All Passed Skipped Failed

**FAIL** Successful POST request | AssertionError: expected 500 to be one of [ 201, 202 ]

## 6) Fetch the data only by the programme and mention the test script for

### a) Computer Science

GET

http://localhost:8080/student/list?programme=Computer Science

Send

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Query Params

KEY	VALUE		Bulk Edit
<input checked="" type="checkbox"/> programme	Computer Science		
Key	Value		

Body

Cookies

Headers (3)

Test Results (1/1)

Status: 200 OK Time: 23 ms Size: 2.73 KB Save Response

Pretty

Raw

Preview

Visualize

```
[{"id":3,"firstName":"Reece","lastName":"Jason","email":"tincidunt.dui@ultricesit.co.uk","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":4,"firstName":"Orson","lastName":"Armando","email":"nascetur@conguea.com","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":17,"firstName":"Amal","lastName":"Emery","email":"turpis.egestas.Aliquam@fermentum.net","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":19,"firstName":"Ley","lastName":"Philip","email":"dolor.elit.pellentesque@enimEtiamimperdiet.ca","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":39,"firstName":"Peter","lastName":"Noble","email":"turpis@sagittislacratCras.ca","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":43,"firstName":"Abel","lastName":"Rudyerd","email":"oreci.luctus.et@posuere.com","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":51,"firstName":"Fletcher","lastName":"Vance","email":"oreci.luctus@hendrentDonecporttitor.net","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":54,"firstName":"Dolan","lastName":"Hyatt","email":"augue.malesuada@Pellentesque.net","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":55,"firstName":"Driscoll","lastName":"Russell","email":"Lorem.ipsum.dolor@cu.co.uk","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":63,"firstName":"Nero","lastName":"Clarke","email":"eget.metus.In@disparturientmontes.org","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":65,"firstName":"Jerome","lastName":"Jackson","email":"ac.turpis@facilisislorem.net","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":97,"firstName":"Brendan","lastName":"Allistair","email":"Nunc.lacreet@Sed.ca","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":98,"firstName":"Gary","lastName":"Robert","email":"molestie@vitesemper.ca","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}, {"id":99,"firstName":"Fletcher","lastName":"Brenden","email":"semper@nequeued.co.uk","programme":"Computer Science","courses":["Calculus","Algorithms","Software Development","Ethics"]}]
```

http://localhost:8080/student/list?programme=Computer Science

GET

http://localhost:8080/student/list?programme=Computer Science

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

```
1 pm.test("CS Program", function () {
2   pm.expect(pm.response.json().programme).toEqual(pm.environment.get("Computer Science"));
3 });
```

Body

Cookies

Headers (3)

Test Results (1/1)

All

Passed

Skipped

Failed

PASS

Response property matches environment variable

### (b) Criminology

GET

http://localhost:8080/student/list?programme=Criminology

Sand

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

KEY	VALUE	...	Bulk edit
<input checked="" type="checkbox"/> programme	Criminology		
Key	Value		

Body

Cookies

Headers (3)

Test Results (1/1)

Status: 200 OK Time: 19 ms Size: 3.04 KB Save Response

Pretty

Raw

Preview

Visualize

```
[{"id":12,"firstName":"Chadwick","lastName":"Lawrence","email":"tupis.non.enim@sociusnatoque.com","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":13,"firstName":"Zachary","lastName":"Vance","email":"In.tincidunt.congue@Quisque.com","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":24,"firstName":"Tanek","lastName":"Scott","email":"Sed.malesuada@porttitoreros.ca","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":31,"firstName":"Emmanuel","lastName":"Gevin","email":"ornare.libero@perinceptoshymenaeos.co.uk","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":47,"firstName":"Preston","lastName":"Brandea","email":"sagittis.semper@urnaNullan.net","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":49,"firstName":"Igor","lastName":"Ezra","email":"cursus.non.egestas@laciniaorci.net","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":57,"firstName":"Maxwell","lastName":"Tarik","email":"pharetra.Quisque.ac@facilisisSuspendisse.edu","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":60,"firstName":"Dominic","lastName":"Malcolm","email":"mi.felis.adipiscing@iberoetristique.edu","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":61,"firstName":"Ross","lastName":"Hedley","email":"Ut.tincidunt.vehicula@nuncidenim.edu","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":64,"firstName":"Thane","lastName":"Carl","email":"ut.aulla@netuset.co.uk","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":72,"firstName":"Jackson","lastName":"Honorato","email":"In@vestibulumlorem.com","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":74,"firstName":"Aquila","lastName":"Sylvester","email":"Aliquam.ultrices.iaculis@duiquisaccumsan.co.uk","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":76,"firstName":"Samuel","lastName":"Kibo","email":"semper@enimcommodohenderit.co.uk","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":80,"firstName":"Troy","lastName":"Simon","email":"Cras.vulputate.velit@ornare.org","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]},{id":83,"firstName":"Yuli","lastName":"Griffin","email":"ipsum.non@vitae.co.uk","programme":"Criminology","courses":["Criminal Mind","Gender, Crime and Justice","Philosophy of Law"]}]
```

GET

http://localhost:8080/student/list?programme=Criminology

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

```
1 pm.test("Criminal Program", function () {
2   pm.expect(pm.response.json().programme).toEqual(pm.environment.get("Criminology"));
3 });
```

Body

Cookies

Headers (3)

Test Results (1/1)

All

Passed

Skipped

Failed

PASS

Criminal Program

7) Run all the above cases and generate the report.



All Tests Passed (2) Failed (2)

Iteration 1

POST	Add student	http://localhost:8080/student	/ Add student	201 Created	21 m
	This request does not have any tests.				
GET	Get student by ID	http://localhost:8080/student/10	/ Get student by ID	200 OK	8 m
	This request does not have any tests.				
GET	Search Financial Analysis programme	http://localhost:8080/student/?programme=Financial Analysis	/ Search Financial Analysis programme	200 OK	5 ms
	This request does not have any tests.				
POST	Existing email id	http://localhost:8080/student	/ Existing email id	500 Internal Server Error	9 m
	Fail	POST request   AssertionError: expected 500 to be one of [ 201, 202 ]			
POST	Incorrect email id	http://localhost:8080/student	/ Incorrect email id	500 Internal Server Error	7 m
	Fail	POST request   AssertionError: expected 500 to be one of [ 201, 202 ]			
GET	CS programme	http://localhost:8080/student/list?programme=Computer Science	/ CS programme	200 OK	6 ms
	Pass	CS Program			
GET	Criminology programme	http://localhost:8080/student/list?programme=Criminology	/ Criminology programme	200 OK	7 ms
	Pass	Criminal Program			