

API Testing with Postman

Download the studentApp.zip file

Unzip into one folder. You can find the file name studentApp.jar

To Start the application use following steps

Steps 1. Open CMD and go to folder that file is located.

Steps 2. Type command java -jar studentApp.jar

Application will start on by default port 8080

URL: http://localhost:8080/student/list

Run application on different port:-

java -jar studentApp.jar --server.port=8085

URL: http://localhost:8085/student/list



API Testing with Postman

URL: http://localhost:8080/student/list

baseURL: http://localhost:8080 + Resource: /student + EndPoint: /list

GET Request

Get All Students:

GET /student/list

CURL command

curl --location --request GET 'http://localhost:8080/student/list'

Response: All student with status code 200 OK.

Get single student by Id which is available

GET /student/1

CURL command

curl --location --request GET 'http://localhost:8080/student/1?='

Verify error message if ID is not available

GET /student/101

CURL command

curl --location --request GET 'http://localhost:8080/student/101?='

Response: status code 404 Not Found.

```
"id": 1,
   "firstName": "Vernon",
   "lastName": "Harper",
   "email": "egestas.rhoncus.Proin@massaQuisqueporttitor.org",
   "programme": "Financial Analysis",
   "courses": [
        "Accounting",
        "Statistics"
]
```

```
(
   "error": "Not Found!"
}
```





API Testing with Postman

URL: http://localhost:8080/student/list

Search students by programme:

GET /student/list?programme=Financial Analysis

CURL:

curl --location --request GET

'http://localhost:8080/student/list?programme=Financial%20Analysis'

Response: Only "programme": "Financial Analysis", Students will display with status code 200 ok

Search students by programme and with limit parameter

GET /student/list?programme=Computer Science&limit=2

CURL:

curl --location --request GET

'http://localhost:8080/student/list?programme=Computer%20Science&limit=2'

Response:

It's displayed only two student who are involved in Computer Science.



API Testing with Postman

```
URL:http://localhost:8080/student
POST Request (Create new student)
POST /student
CURL command
curl --location --request POST 'http://localhost:8080/student'
--header 'Content-Type: application/json' \
--header 'Content-Type: text/plain' \setminus
--data-raw '{
  "firstName": "vernon",
  "lastName": "Harper",
  "email": "primetesting@gmail.com",
  "programme": "Financial Analysis",
  "cources": [
     "Accounting",
     "Statistics"
Response:
      "msg": "Student added"
```

Status code 201 Created



API Testing with Postman

URI:- http://localhost:8080/student Verify error message "Email address already exists" **CURL** command: curl --location --request POST 'http://localhost:8080/student' \ --header 'Content-Type: application/json' \ --header 'Content-Type: text/plain' \ --data-raw '{ "firstName": "vernon", "lastName": "Harper", "email": "primetesting@gmail.com", "programme": "Financial Analysis", "cources": ["Accounting", "Statistics" **Response:** "error": "Email address already exists"



API Testing with Postman

URI:- http://localhost:8080/student

Verify error message "Please correct the following errors"

```
POST /student Send request with email = null
CURL Command:
curl --location --request POST 'http://localhost:8080/student' \
--header 'Content-Type: application/json' \
--header 'Content-Type: text/plain' \
--data-raw '{
  "firstName": "Jay",
  "lastName": "Vaghani",
  "email": "".
  "programme": "Computer Science",
  "courses": [
     "Java",
     "Scal"
Response:
Status code: 500 internal server error.
```



Status code: 200 created.

API Testing with Postman

```
URI:- http://localhost:8080/student/1
PUT Request
PUT /student/101
CURL Command:
curl --location --request PUT 'http://localhost:8080/student/1' \
--header 'Content-Type: application/json' \
--header 'Content-Type: text/plain' \
--data-raw '{
  "firstName": "vernon",
  "lastName": "Harper",
  "email": "primetesting3@gmail.com",
  "programme": "Financial Analysis",
  "cources": [
     "Accounting",
     "Statistics"
                                                       "msg": "Student Updated"
Response:
```



API Testing with Postman

URI:- http://localhost:8080/student/1

PATCH Request:

PATCH /student/10

CURL Command:

curl --location --request PATCH 'http://localhost:8080/student/10'\
--header 'Content-Type: application/json'\
--header 'Content-Type: text/plain'\
--data-raw '{
 "email": "test@gmail.com"
}'

Response:

Status code: 200 ok.





API Testing with Postman

URI:- http://localhost:8080/student/10

DELETE Request:

DELETE /student/10

CURL Command

curl --location --request DELETE 'http://localhost:8080/student/10' \

- --header 'Content-Type: application/json' \
- --data-raw "

Response



OPTIONS METHOD (Helper Method)

OPTIONS /student

Allow → POST

OPTIONS /student/1

Allow → PUT, DELETE, PATCH, GET, HEAD