

```
User Story :- Secure student interface
API being tested: <a href="http://127.0.0.1:5000/api/user">http://127.0.0.1:5000/api/user</a>
Inputs:
      Request Mode :- POST
       Json Body as
            "email": "testuser@example.com",
            "username": "testuser",
            "password1": "testpassword",
        }
Expected output:
       HTTP Status Code =200
       Return Json Result as
          "username": "testuser",
          "email": "testuser@example.com"
       }
Actual Output :
       HTTP Status Code =200
       Return Json Result as
          "username": "testuser",
          "email": "testuser@example.com"
Result- Success
```



```
def test_user_signup():
    api_url = 'http://127.0.0.1:5000/api/user'
    data = {
        "email": "testuser@example.com",
        "username": "testuser",
        "password1": "testpassword",
    }
    # Make the POST request
    response = requests.post(api_url, json=data)
# Assert the status code is 200 (Success)
    assert response.status_code == 200
```



```
Actual Output :
     HTTP Status Code =200
     Return Json Result as
      "image path": "learning path 20231206113952.png"
Result- Success
 def test generate learning path():
      api url = 'http://127.0.0.1:5000/api/learning path/1'
      course data = {
           "term 1": ["BDM", "MAD1", "DBMS", "MAD1 Project"],
           "term_2": ["PDSA", "MLF", "MAD2", "MAD2 Project"],
          "term_3": ["BA", "MLT", "Java", "TDS"],
           "term_4": ["MLP", "SC", "MLT Project", "MLP Project"]
      data = {
           "course data": course data
      response = requests.post(api url, json=data)
      assert response.status code == 201
User Story :- Providing multiple learning paths
API being tested: http://127.0.0.1:5000/api/learning_path/1
Inputs:
    Request Mode :- POST
     Json Body as
     {}
Expected output:
     HTTP Status Code =400
     "message": "Request must contain a valid JSON payload"
Actual Output :
     HTTP Status Code =400
     "message": "Request must contain a valid JSON payload"
```



### **Milestone: 5 Submission**

```
def test_generate_learning_path_errors():
    api_url = 'http://127.0.0.1:5000/api/learning_path/1'
    # Intentionally omitting the course_data to trigger an error
    data = {}
    # Make the POST request.
    response = requests.post(api_url, json=data)
    # Assert the status code is 400
    assert response.status_code == 400
```

```
User Story :- Providing multiple learning paths
API being tested: http://127.0.0.1:5000/api/learning_path/1
Inputs:
    Request Mode :- GET
    User ID:-1
Expected output:
     HTTP Status Code =200
     Return Json Result as
      "image_path": "learning_path_20231206113952.png"
Actual Output :
     HTTP Status Code =200
     Return Json Result as
      "image_path": "learning_path_20231206113952.png"
     }
Result- Success
def test current learning path():
     api_url = 'http://127.0.0.1:5000/api/learning_path/1'
     # Make the GET request
     response = requests.get(api url)
     # Assert the status code is 200
     assert response.status code == 200
```



```
User Story :- Providing multiple learning paths
API being tested: http://127.0.0.1:5000/api/learning_path/x
Inputs:
     Request Mode :- GET
     User ID:-1
Expected output:
      HTTP Status Code =404
      "message": "No learning path found for the user"
Actual Output:
      HTTP Status Code =404
      "message": "No learning path found for the user"
     }
Result- Success
 def test_current_learning_path_error():
      api_url = 'http://127.0.0.1:5000/api/learning_path/x'
      # Make the GET request
       response = requests.get(api url)
      # Assert the status code is 404
      assert response.status code == 404
User Story :- Exploring popular learning paths
API being tested: http://127.0.0.1:5000/api/top_rated_learning_paths
Inputs:
     Request Mode :- GET
Expected output:
      HTTP Status Code =200
      Return Json Result as
       {"image_path": "learning_path_20231206113952.png"},
```

```
{"image_path": "learning_path_20231206113953.png"},
       {"image_path": "learning_path_20231206113954.png"},
       {"image_path": "learning_path_20231206113955.png"},
       {"image path": "learning path 20231206113956.png"},
       {"image path": "learning path 20231206113957.png"}
      1
Actual Output:
      HTTP Status Code =200
      Return Json Result as
      {"image_path": "learning_path_20231206113952.png"},
       {"image_path": "learning_path_20231206113953.png"},
       {"image_path": "learning_path_20231206113954.png"},
       {"image_path": "learning_path_20231206113955.png"},
       {"image path": "learning path 20231206113956.png"},
       {"image_path": "learning_path_20231206113957.png"}
Result- Success
 def test top rated learning paths():
     api url = 'http://127.0.0.1:5000/api/top rated learning paths'
     # Make the GET request
      response = requests.get(api url)
     # Assert the status code is 200 (Success)
      assert response.status code == 200
User Story: - Exploring popular learning paths
API being tested: http://127.0.0.1:5000/api/learning_path/1
Inputs:
     Request Mode :- GET
Expected output:
      HTTP Status Code =404
      Return Json Result as
      "message": "No learning paths found"
```



```
Actual Output :
      HTTP Status Code =404
      Return Json Result as
      "message": "No learning paths found"
Result- Success
 def test top rated learning paths error():
     api url = 'http://127.0.0.1:5000/api/top rated learning paths
     # Make the GET request
      response = requests.get(api url)
     # Assert the status code is 404 (Not Found)
      assert response.status code == 404
User Story :- Feedback on the learning paths
API being tested: http://127.0.0.1:5000/api/all learning paths
Inputs:
     Request Mode :- GET
Expected output:
      HTTP Status Code =200
      Return Json Result as
       {"image_path": "learning_path_20231206113952.png"},
       {"image path": "learning path 20231206113953.png"},
       {"image_path": "learning_path_20231206113954.png"},
       {"image path": "learning path 20231206113955.png"},
       {"image path": "learning path 20231206113956.png"},
       {"image_path": "learning_path_20231206113957.png"}
      }
Actual Output:
      HTTP Status Code =200
      Return Json Result as
```



### **Milestone: 5 Submission**

```
{"image_path": "learning_path_20231206113952.png"}, {"image_path": "learning_path_20231206113953.png"}, {"image_path": "learning_path_20231206113954.png"}, {"image_path": "learning_path_20231206113955.png"}, {"image_path": "learning_path_20231206113956.png"}, {"image_path": "learning_path_20231206113957.png"}
```

```
def test_all_learning_paths():
    api_url = 'http://127.0.0.1:5000/api/all_learning_paths'
    # Make the GET request
    response = requests.get(api_url)
    # Assert the status code is 200 (Success)
    assert response.status_code == 200
```

```
User Story :- Feedback on the learning paths
API being tested: http://127.0.0.1:5000/api/feedbacks/1
Inputs:
      Request Mode :- GET
      User ID:-1
Expected output:
       HTTP Status Code =200
       Return Json Result as
        "id": 1.
        "learning path id": 101,
        "rating": 5,
        "remarks": "Excellent content!",
        "created": "2023-12-06T11:39:52Z"
      }
Actual Output:
       HTTP Status Code =200
       Return Json Result as
        "id": 1,
```



## Milestone: 5 Submission

```
"learning_path_id": 101,
      "rating": 5,
      "remarks": "Excellent content!",
      "created": "2023-12-06T11:39:52Z"
Result- Success
 def test learning path feedbacks(learning path id):
       api url = f'http://127.0.0.1:5000/feedbacks/1'
       # Make the GET request
       response = requests.get(api url)
       # Assert the status code is 200 (Success)
       assert response.status code == 200
User Story :- Feedback on the learning paths
API being tested: http://127.0.0.1:5000/api/feedbacks/1
Inputs:
    Request Mode :- POST
    User ID:-1
    Jason data as
         'rating': 5,
         'remarks': 'Great learning experience!',
```

#### **Expected output:**

}

```
HTTP Status Code =201
Return Json Result as
 "learning_path_id": 101,
 "rating": 5,
 "remarks": "Excellent content!",
 "created": "2023-12-06T11:39:52Z"
}
```

#### **Actual Output**:

HTTP Status Code =200 Return Json Result as



### Milestone: 5 Submission

```
"learning path id": 101,
      "rating": 5,
      "remarks": "Excellent content!",
      "created": "2023-12-06T11:39:52Z"
Result- Success
def test post learning path feedbacks(learning path id):
     api url = 'http://127.0.0.1:5000/feedbacks/1'
     # Define the data you want to send in the POST request
     data = {
          'rating': 5,
          'remarks': 'Great learning experience!',
     }
     # Make the POST request
     response = requests.post(api url, json=data)
     # Assert the status code is 201 (Created)
     assert response.status code == 201
User Story :- Feedback on the learning paths
```

```
API being tested: http://127.0.0.1:5000/api/feedbacks/1
```

Inputs:

```
Request Mode :- POST
User ID:-1
Jason data as
      'rating': -1,
      'remarks': 'Great learning experience!',
}
```

#### **Expected output:**

```
HTTP Status Code =201
Return Json Result as
 "learning path id": 101,
 "rating": 5,
 "remarks": "Excellent content!",
```



### **Milestone: 5 Submission**

```
"created": "2023-12-06T11:39:52Z" }
```

#### **Actual Output** :

Error throws in pytest

Result- Fail

```
def test_post_learning_path_feedbacks_error(learning_path_id):
    api_url = 'http://127.0.0.1:5000/feedbacks/1'
    # Define the data with missing required fields for error case
    data = {
        'remarks': 'Great learning experience!',
    }
    # Make the POST request
    response = requests.post(api_url, json=data)
    # Assert the status code is 400 (Bad Request)
    assert response.status_code == 400
```

**User Story :- Considering course prerequisites and corequisites** 

API being tested: http://127.0.0.1:5000/api/courses

Inputs:

Request Mode :- GET

#### **Expected output:**

```
HTTP Status Code =200
Return Json Result as
{
[
    "id": 1,
    "name": "BDM",
    "prerequisite": "",
    "corequisite": "",
    "type_": "Data Science",
    "level": "2",
    "project": "BDM Project"
},
{
    "id": 2,
    "name": "MAD1",
```

# **Milestone: 5 Submission**

```
"corequisite": "",
          "type_": "Programming",
          "level": "2",
          "project": "MAD1 Project"
          "id": 3,
          "name": "MAD2",
          "prerequisite": "MAD1",
          "corequisite": "",
          "type_": "Programming",
          "level": "2",
          "project": "MAD2 Project"
        },
       }
Actual Output :
       HTTP Status Code =200
       Return Json Result as
          "id": 1,
          "name": "BDM",
          "prerequisite": "",
          "corequisite": "",
          "type_": "Data Science",
          "level": "2",
          "project": "BDM Project"
          "id": 2,
          "name": "MAD1",
          "prerequisite": "",
          "corequisite": "",
          "type_": "Programming",
          "level": "2",
          "project": "MAD1 Project"
```

"prerequisite": "",



### Milestone: 5 Submission

```
},
      "id": 3,
      "name": "MAD2",
      "prerequisite": "MAD1",
      "corequisite": "",
      "type_": "Programming",
      "level": "2",
      "project": "MAD2 Project"
Result- Success
def test get courses():
     # Make the GET request
      api url = 'http://127.0.0.1:5000/api/courses'
      response = requests.get(api url)
     # Assert the status code is 200 (Success)
      assert response.status code == 200
```

```
User Story :- Considering course prerequisites and corequisites
```

API being tested: http://127.0.0.1:5000/api/courses

```
Inputs:
```

```
Request Mode :- POST
Json as
{
      'course id': 4,
      'course_name': 'New Course',
      'pre_req': 'Prerequisite',
      'co_req': 'Corequisite',
      'type ': 'Programming',
      'level': '4',
      'project': 'Project',
}
```

#### **Expected output:**

HTTP Status Code =201 Return Json Result as



# **Milestone: 5 Submission**

```
{
    'course_id': 4,
    'course_name': 'New Course',
    'pre_req': 'Prerequisite',
    'co_req': 'Corequisite',
    'type_': 'Programming',
    'level': '4',
    'project': 'Project',
}
```

#### Actual Output :

```
HTTP Status Code =201
Return Json Result as
{
    'course_id': 4,
    'course_name': 'New Course',
    'pre_req': 'Prerequisite',
    'co_req': 'Corequisite',
    'type_': 'Programming',
    'level': '4',
    'project': 'Project',
}
```



### **Milestone: 5 Submission**

Result- Success

```
def test_post_course():
    api_url = 'http://127.0.0.1:5000/api/course'
    data = {
        'course_id': 'CS004',
        'course_name': 'New Course',
        'pre_req': 'Prerequisite',
        'co_req': 'Corequisite',
        'type': 'Programming',
        'level': '4',
        'project': 'Project',
}

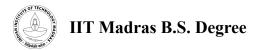
# Make the POST request
    response = requests.post(api_url, json=data)
# Assert the status code is 201 (Success)
    assert response.status_code == 201
```

```
User Story :- Considering course prerequisites and corequisites API being tested : http://127.0.0.1:5000/api/courses/CS004
```

Inputs:

```
Request Mode :- PUT
Course id:- CS004

Json as
{
    'course_name': 'Course',
    'pre_req': 'Updated Prerequisite',
    'co_req': 'Updated Corequisite',
    'type_': 'Data Science',
    'level': '2',
    'project': 'Updated Project',
```



```
}
Expected output:
       HTTP Status Code =200
       Return Json Result as
          {
            'course_name': 'Course',
            'pre_req': 'Updated Prerequisite',
            'co_req': 'Updated Corequisite',
            'type_': 'Data Science',
            'level': '2',
            'project': 'Updated Project',
          }
Actual Output :
       HTTP Status Code =200
       Return Json Result as
            'course_name': 'Course',
            'pre_req': 'Updated Prerequisite',
            'co req': 'Updated Corequisite',
            'type_': 'Data Science',
            'level': '2',
            'project': 'Updated Project',
Result- Success
```

### Milestone: 5 Submission

```
def test_put_course():
    api_url = 'http://127.0.0.1:5000/api/course/CS004'
    # Replace {id} with the actual course_id
    data = {
        'course_name': 'Course',
        'pre_req': 'Updated Prerequisite',
        'co_req': 'Updated Corequisite',
        'type': 'Data Science',
        'level': '2',
        'project': 'Updated Project',
}
response = requests.put(api_url, json=data)
# Assert the status code is 200 (Success)
assert response.status_code == 200
```

**User Story :- Considering course prerequisites and corequisites** 

API being tested: http://127.0.0.1:5000/api/course/CS004

Inputs:

Request Mode :- **PUT** Course id:- CSS04

**Expected output:** 

HTTP Status Code =400

Actual Output :

HTTP Status Code =400

```
def test_put_course_error():
    api_url = 'http://127.0.0.1:5000/api/course/CSS04'
    # Intentially giving wrong course id
    data = {}
    response = requests.put(api_url, json=data)
    # Assert the status code is 404 (Not Found)
    assert response.status_code == 404
```

### Milestone: 5 Submission

User Story :- Considering course prerequisites and corequisites

API being tested: http://127.0.0.1:5000/api/course/CS004

Inputs:

Request Mode :- **DELETE** 

Course id:- CS004

**Expected output:** 

HTTP Status Code =200

Actual Output :

HTTP Status Code =200

Result- Success

```
def test_delete_course():
    api_url = 'http://127.0.0.1:5000/api/courses'
    course_id = 4
    # Make the DELETE request
    response = requests.delete(f'{api_url}/{course_id}')
    # Assert the status code is 200 (Success)
    assert response.status_code == 200
```

User Story :- Considering course prerequisites and corequisites

API being tested: http://127.0.0.1:5000/api/course/CS004

Inputs:

Request Mode :- **DELETE** 

Course id:- 4

**Expected output:** 

HTTP Status Code =500

Actual Output :

HTTP Status Code =500

```
def test_delete_course_error():
    api_url = 'http://127.0.0.1:5000/api/course/CSS004'
    # Make the DELETE request
    response = requests.delete(api_url)
    # Assert the status code is 500 (Success)
    assert response.status_code == 500
```



# **Milestone: 5 Submission**

```
User Story :- Enhancing recommendations through feedback
API being tested: http://127.0.0.1:5000/api/CourseFeedback/1
Inputs:
      Request Mode :- GET
      User Id =1
Expected output:
       HTTP Status Code =200
       Return Json Result as
       {
            ""id"": 1.
            ""user id"": 1,
            ""subject id"": ""2"",
            ""rating"": 4,
            ""remarks"": ""Very good update""
         }"
Actual Output:
       HTTP Status Code =200
       Return Json Result as
       {
            ""id"": 1,
            ""user_id"": 1,
            ""subject id"": ""2"",
            ""rating"": 4,
            ""remarks"": ""Very good update""
         }
```

```
def test_api_call_success():
    api_url = 'http://127.0.0.1:5000/api/CourseFeedback/1'

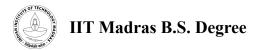
    # Make the API call
    response = requests.get(api_url)

# Assert the status code is 200
    assert response.status_code == 200
```

**User Story :- Enhancing recommendations through feedback** 

**BSCS3001:** Software Engineering Project (Team: se-sept-03)

```
API being tested: http://127.0.0.1:5000/api/CourseFeedback/10
Inputs:
     Request Mode :- GET
     User Id =10
Expected output:
      HTTP Status Code = 404 NOT FOUND
      Return Json Result as
      "message": "No feedback for given by user"
Actual Output :
      HTTP Status Code = 404 NOT FOUND
      Return Json Result as
      "message": "No feedback for given by user"
Result- Success
 def test api call fail():
     api url = 'http://127.0.0.1:5000/api/CourseFeedback/10'
     # Make the API call
     response = requests.get(api url)
     # Assert the status code is 403
     assert response.status code == 404
User Story :- Enhancing recommendations through feedback
Inputs:
     Request Mode :- GET
     Expected output:
      HTTP Status Code = 403 FORBIDDEN
      Return Json Result as
      "message": "Internal Server Error"
Actual Output :
```



# **Milestone: 5 Submission**

```
Return Json Result as
{
    "message": "Internal Server Error"
}

Result- Success

def test_api_call_fail_1():
    api_url = 'http://127.0.0.1:5000/api/CourseFeedba
```

HTTP Status Code = 403 FORBIDDEN

```
# Make the API call
response = requests.get(api_url)

# Assert the status code is 500
assert response.status_code == 500
```

```
User Story :- Enhancing recommendations through feedback API being tested : <a href="http://127.0.0.1:5000/api/CourseFeedback/">http://127.0.0.1:5000/api/CourseFeedback/</a>
```

Inputs:

```
Request Mode :- POST
User Id =1
Json Body
{
"subject_id": 4,
"rating": 5,
"remarks": "Very good"
}
```

### **Expected output:**

```
HTTP Status Code = 201 CREATED {

"id": 15,

"user_id": 2,

"subject_id": "4",

"rating": 5,

"remarks": "Very good"

}
```



# **Milestone: 5 Submission**

```
"id": 15,
    "user_id": 2,
    "subject_id": "4",
    "rating": 5,
    "remarks": "Very good"
    }

Result- Success

def test_post_request():
    api_url = 'http://127.0.0.1:5000/api/CourseFeedback/1'

# Define the data you want to send in the POST request
data = {
        "subject_id": '4',
        "rating": '5',
        "remarks": "Very good"
    }

# Make the POST request. PLEASE use JSON so that data will pass as Json
response = requests.post(api_url, json=data)
```

# Assert the status code is 201 or any other expected status code

#### **User Story :- Enhancing recommendations through feedback**

API being tested: http://127.0.0.1:5000/api/CourseFeedback/1

assert response.status\_code == 201

Inputs:

Actual Output :

HTTP Status Code = 201 CREATED

```
Request Mode :- POST
User Id =1
Json Body
{
"subject_id": ,
"rating": 5,
"remarks": "Very good"
}
```

## **Milestone: 5 Submission**

```
Expected output:

HTTP Status Code = 403 FORBIDDEN
Return Json Result as
{
"message": "Internal Server Error"
}
```

Actual Output :

Error throws in pytest

Result- Fail

```
def test_post_request_fail():
    api_url = 'http://127.0.0.1:5000/api/CourseFeedback/1'

# Define the data you want to send in the POST request
data = {
        "subject_id": |,
        "rating": 4,
        "remarks": "Very good"

# Make the POST request. PLEASE use JSON so that data will pass as Json
response = requests.post(api_url, json=data)

# Assert the status code is 201 or any other expected status code
assert response.status_code == 201
```

```
User Story :- Enhancing recommendations through feedback
```

API being tested: <a href="http://127.0.0.1:5000/api/CourseFeedback/">http://127.0.0.1:5000/api/CourseFeedback/</a>1/1

Inputs:

```
Request Mode :- PUT
User Id =1
Subject ID =1
<u>Json Body</u>
{
"rating": 4,
"remarks": "Very good update"
}
```

## **Milestone: 5 Submission**

```
Expected output:

HTTP Status Code = 201 CREATED

{
    "id": 1,
    "user_id": 1,
    "subject_id": "2",
    "rating": 4,
    "remarks": "Very good update"
}

Actual Output :

HTTP Status Code = 201 CREATED

{
    "id": 1,
    "user_id": 1,
    "subject_id": "2",
    "rating": 4,
    "remarks": "Very good update"
}
```

```
def test_put_request():
    api_url = 'http://127.0.0.1:5000/api/CourseFeedback/1/2'

# Define the data you want to send in the POST request
data = {
        "rating": 5,
        "remarks": "Very good"
    }

# Make the POST request. PLEASE use JSON so that data will pass as Json
response = requests.put(api_url, json=data)

# Assert the status code is 201 or any other expected status code
assert response.status_code == 201
```



```
User Story :- Feedback on the learning paths
API being tested: http://127.0.0.1:5000/api/StudentAcademicInfo/1/F3-2024
Inputs:
       Request Mode :- GET
       User Id =1
       Subject ID =1
       Json Body
       "rating": 4,
       "remarks": "Very good update"
Expected output:
       HTTP Status Code = 200 OK
          "roll_number": "1",
          "term_id": "F3-2024",
          "course_id": "100",
          "avg_ga": 90.0,
          "quiz1": 10.0,
          "quiz2": 10.0,
          "end_term": 10.0,
          "oppe1": 10.0,
          "oppe2": 10.0,
          "project": 10.0,
          "final score": 10.0
       }
Actual Output:
       HTTP Status Code = 200 OK
          "roll_number": "1",
          "term_id": "F3-2024",
          "course_id": "100",
          "avg_ga": 90.0,
          "quiz1": 10.0,
          "quiz2": 10.0,
          "end_term": 10.0,
          "oppe1": 10.0,
          "oppe2": 10.0,
          "project": 10.0,
          "final_score": 10.0
```



### **Milestone: 5 Submission**

}

```
def test_StudentAcademic_api_call_success():
    api_url = 'http://127.0.0.1:5000/api/StudentAcademicInfo/1/F3-2024'

# Make the API call
    response = requests.get(api_url)

# Assert the status code is 200
    assert response.status_code == 200
```

```
User Story :- Feedback on the learning paths
API being tested: http://127.0.0.1:5000/api/StudentProfile
Inputs:
       Request Mode :- POST
       "roll number":2,
       "academic_interests": "Higher study",
       "learning goals": "DP",
       "schedules": "3 month",
       "commitments" :"Higher study+1"
Expected output:
       HTTP Status Code = 201 CREATED
       "roll number": "2",
       "academic_interests": "Higher study",
       "learning_goals": "DP",
       "schedules": "3 month",
       "commitments": "Higher study+1"
       }
Actual Output:
       HTTP Status Code = 201 CREATED
       "roll number": "2",
       "academic interests": "Higher study",
       "learning goals": "DP",
       "schedules": "3 month",
```

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```
"commitments": "Higher study+1" }
```

**Result- Success** 

```
def test_Studentprofile_post_call_success():
    api_url = 'http://127.0.0.1:5000/api/StudentProfile'

# Define the data you want to send in the POST request

data = {
    "roll_number":4,
    "academic_interests": "Higher study",
    "learning_goals": "DP",
    "schedules": "3 month",
    "commitments":"Higher study+1"

# Make the POST request. PLEASE use JSON so that data will pass as Json
    response = requests.post(api_url, json=data)

# Assert the status code is 201 or any other expected status code
    assert response.status_code == 201
```

```
User Story:- Feedback on the learning paths
API being tested: http://127.0.0.1:5000/api/StudentProfile/2
Inputs:
```

Request Mode :- **GET RollNumberParam =2** 

#### **Expected output:**

```
HTTP Status Code = 200 OK
{

"roll_number": "2",

"academic_interests": "Higher study",

"learning_goals": "DP",

"schedules": "3 month",

"commitments": "Higher study+1"
}
```



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```
HTTP Status Code = 200 OK
      "roll number": "2",
      "academic_interests": "Higher study",
      "learning goals": "DP",
      "schedules": "3 month",
      "commitments": "Higher study+1"
Result- Success
  def test_Studentprofile_get_call_success():
      api_url = 'http://127.0.0.1:5000/api/StudentProfile/2'
      # Make the API call
      response = requests.get(api_url)
      # Assert the status code is 200
      assert response.status code == 200
User Story :- Feedback on the learning paths
Inputs:
      Request Mode :- GET
      RollNumberParam =2999999999999
Expected output:
      HTTP Status Code = 404 NOT FOUND
      Return Json Result as
      "message": "No student profile found"
Actual Output :
      HTTP Status Code = 404 NOT FOUND
      Return Json Result as
      "message": "No student profile found"
Result- Success
```

Actual Output :



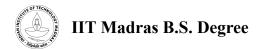
```
def test_Studentprofile_get_call_fail():
    api_url = 'http://127.0.0.1:5000/api/StudentProfile/29999999999999999

# Make the API call
    response = requests.get(api_url)

# Assert the status code is 200
    assert response.status_code == 404
```

```
User Story :- Upload Student Academic Info
API Used: http://127.0.0.1:5000/api/add student acamdemic info
Inputs:
       Request Mode :- POST
         "roll number": "S013",
         "term id": 1,
         "course id": "CS101",
         "avg_ga": 85.5,
         "quiz1": 75.0,
         "quiz2": 88.5,
         "end term": 92.0,
         "oppe1": 90.0,
         "oppe2": 87.5,
         "project": 95.0,
         "final_score": 89.7
Expected output:
       HTTP Status Code = 201 CREATED
         "roll number": "S013",
         "term_id": 1,
         "course id": "CS101",
         "avg ga": 85.5,
         "quiz1": 75.0,
         "quiz2": 88.5,
         "end_term": 92.0,
         "oppe1": 90.0,
         "oppe2": 87.5,
         "project": 95.0,
         "final score": 89.7
```

```
}
Actual Output:
       HTTP Status Code = 201 CREATED
        "roll_number": "S013",
        "term_id": 1,
        "course id": "CS101",
        "avg_ga": 85.5,
        "quiz1": 75.0,
        "quiz2": 88.5,
        "end_term": 92.0,
        "oppe1": 90.0,
        "oppe2": 87.5,
        "project": 95.0,
        "final_score": 89.7
      }
Result- Success
  def test_add_student_academic_info_api_success():
      api url = 'http://127.0.0.1:5000/api/add student acamdemic info'
      data = {
    "roll_number": "S040",
    "term id": 1,
    "course_id": "CS101",
    "avg_ga": 85.5,
    "quiz1": 75.0,
    "quiz2": 88.5,
    "end_term": 92.0,
    "oppe1": 90.0,
    "oppe2": 87.5,
    "project": 95.0,
    "final score": 89.7
      response = requests.post(api_url, json=data)
      assert response.status_code == 201
```



## **Milestone: 5 Submission**

```
User Story :- Upload Student GPA Details
API Used: http://127.0.0.1:5000/api/add_gpa
Inputs:
       Request Mode :- POST
         "roll_number": "S037",
         "term id": 3,
         "sgpa": 7.8,
         "cgpa": 7.6
       }
Expected output:
       HTTP Status Code = 201 CREATED
         "roll_number": "S037",
         "term id": 3,
         "sgpa": 7.8,
         "cgpa": 7.6
       }
Actual Output:
       HTTP Status Code = 201 CREATED
         "roll_number": "S037",
         "term_id": 3,
         "sgpa": 7.8,
         "cgpa": 7.6
       }
```



```
def test_add_gpa_api_success():
    api_url = 'http://127.0.0.1:5000/api/add_gpa'

    data = {
        "roll_number": "S040",
        "term_id": 3,
        "sgpa": 7.8,
        "cgpa": 7.6
}
    response = requests.post(api_url, json=data)
    assert response.status_code == 201
```

```
User Story :- Upload Student Offline Education Details
API Used: http://127.0.0.1:5000/api/add offline education
Inputs:
       Request Mode :- POST
        "degree": "Bachelor of Science",
        "major": "Computer Science",
        "end year": "2022"
       }
Expected output:
       HTTP Status Code = 201 CREATED
        "degree": "Bachelor of Science",
        "major": "Computer Science",
        "end year": "2022"
       }
Actual Output:
       HTTP Status Code = 201 CREATED
        "degree": "Bachelor of Science",
        "major": "Computer Science",
        "end_year": "2022"
```

```
def test_add_offline_education_api_success():
    api_url = 'http://127.0.0.1:5000/api/add_offline_education'

    data = {
        "roll_number": "S040",
        "degree": "Bachelor of Science",
        "major": "Computer Science",
        "end_year": "2022"
}
    response = requests.post(api_url, json=data)
    assert response.status_code == 201
```

```
User Story :- Analytics
API Used: http://127.0.0.1:5000/api/admin
Inputs:
        Request Mode :- GET
        Email:- admin@admin.com
Expected output:
        HTTP Status Code = 200
         "tstudents": [
          {"id": 1, "name": "Student1", "roll number": "21f1000123", "email": "student1@example.com"},
          {"id": 2, "name": "Student2", "roll number": "21f1000124", "email": "student2@example.com"},
          {"id": 3, "name": "Student3", "roll_number": "21f1000125", "email": "student3@example.com"}
          // ... (data for all students)
         1,
         "tcourses": 16, // Total number of courses
         "counts": {
          "1": 10, // Number of learning paths with a rating of 1
          "2": 15, // Number of learning paths with a rating of 2
          "3": 20, // Number of learning paths with a rating of 3
          "4": 25, // Number of learning paths with a rating of 4
          "5": 30 // Number of learning paths with a rating of 5
         "StudentsDataSummaryReport": {},
         "StudentsDataSummaryReportImage": "static/IMG/StudentSatisfactionMetric.png"
       }
```

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### Actual Output : HTTP Status Code = 200 HTTP Status Code = 200 "tstudents": [ {"id": 1, "name": "Student1", "roll number": "21f1000123", "email": "student1@example.com"}, {"id": 2, "name": "Student2", "roll number": "21f1000124", "email": "student2@example.com"}, {"id": 3, "name": "Student3", "roll\_number": "21f1000125", "email": "student3@example.com"} // ... (data for all students) "tcourses": 16, // Total number of courses "counts": { "1": 10, // Number of learning paths with a rating of 1 "2": 15, // Number of learning paths with a rating of 2 "3": 20, // Number of learning paths with a rating of 3 "4": 25, // Number of learning paths with a rating of 4 "5": 30 // Number of learning paths with a rating of 5 },

"StudentsDataSummaryReportImage": "static/IMG/StudentSatisfactionMetric.png"

#### **Result- Success**

}

"StudentsDataSummaryReport": {},

```
def test_admin_data():
    # Replace {email} with the actual admin email
    api_url = 'http://127.0.0.1:5000/api/admin'
    email = 'admin@example.com'

# Make the GET request
    response = requests.get(f'{api_url}/{email}')

# Assert the status code is 200 (Success)
    assert response.status_code == 200
```