



# Final Project Report

**Links:** [Demo video](#) [Presentation slides](#)

## Milestone 1 submission

### Types of users :

#### Primary users:

- Students

#### Secondary users:

- Admin

#### Tertiary users:

- Course Professors or Instructors
- IITM BS academics team or student affairs team
- IITM BS Portal management team

### Users Stories :

#### Primary Users

**User Story 1:** Getting input from students to recommend personalized learning paths

**As a** student,

**I want** to input my academic interests, learning goals, schedules, and commitments,



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**so that** the system considers my current preferences and constraints to recommend a personalized learning path.

## User Story 2: Considering past performances

**As a** student,

**I want** the system to consider my past performance in previous courses,

**so that** the recommendations align with my academic strengths and weaknesses.

## User Story 3: Sharing course feedback

**As a** student,

**I want** to share feedback on each course I have taken or finished,

**so that** the system can consider my sentiments and ratings to enhance the recommendation engine.

## User Story 4: Feedback on the learning paths

**As a** student,

**I want** to provide feedback on the recommended learning paths,

**so that** the system can utilize my sentiments and ratings in the refinement of the recommendation engine.

## User Story 5: Enhancing recommendations through feedback

**As a** student,

**I want** the system to consider both individual and peer feedback during course recommendations,

**so that** my learning experience is personalized and benefits from collective wisdom.

## User Story 6: Providing multiple learning paths

**As a** student,

**I want** to view multiple learning paths based on the same input provided,

**so that** I have diverse options to explore and choose from.



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## User Story 7: Exploring popular learning paths

**As a** student,  
**I want** to explore different popular learning paths taken by my peers who are similar to me,  
**so that** I can gain insights, broaden my academic horizons, and make informed decisions about my own learning journey.

## User Story 8: Secure student interface

**As a** student,  
**I want** to prevent other students from accessing my personal data,  
**so that** I have confidence in the confidentiality and integrity of my data.

## Secondary Users

### User Story 1: Enrollment Data Management (CRUD)

#### User story 1.1 Upload Enrollment Data (create)

**As an** admin,  
**I want** to upload enrollment data, such as student's learning profile, including their past academic performance, interests, and goals from previous terms,  
**so that** the system can use it to generate learning path recommendations.

#### User story 1.2 Verify Enrollment Data (Read)

**As an** admin,  
**I want** to view or download a summary report of the uploaded enrollment data,  
**so that** I can verify its accuracy.



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## User story 1.3 Manage Enrollment Data (Update and Delete)

**As an** admin,  
**I want** to have the option to edit and delete uploaded enrollment data in case of errors,  
**so that** I can maintain data accuracy and reliability.

## User Story 2: Data security and privacy

**As an** admin,  
**I want** the access control feature to ensure secure access to enrollment data and prevent unauthorized entry.  
**so that** data integrity is maintained.

## User Story 3: Analytics

**As an** admin,  
**I want** to access student engagement and satisfaction metric on the effectiveness of learning path recommendations,  
**so that** I can make informed decisions for system improvement.

## User Story 4: Considering course prerequisites and corequisites

**As an** admin,  
**I want** to efficiently manage courses, including their prerequisites, corequisites, and required minimum hours of study, by performing actions such as inserting, updating, and deleting,  
**so that** learning path recommendations align with academic requirements and regulations.

## User Story 5: Admin feedback for learning path reinforcement

**As an** admin,  
**I want** to provide feedback or ratings on recommended learning paths,  
**so that** the recommendation engine can be reinforced and fine-tuned for improved suggestions.



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## Tertiary Users

### User Story 1: Assessing course effectiveness

**As a** course professor or instructor,  
**I want** to get alerted if the rating of my course is less than 3,  
**so that** I can evaluate the effectiveness of my teaching methods and make improvements.

### User Story 2: Evaluating recommendation engine efficiency

**As a** member of the student affairs or academic team,  
**I want** to access data on student engagement with recommended learning paths,  
**so that** I can verify the efficiency and effectiveness of the recommendation engine.

## Milestone 2 submission

- StoryBoard Animation: [link](#)
- StoryBoard PPT: [link](#)
- StoryBoard Video: [link](#)
- Wireframe: [link](#)



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## Milestone 3 submission

### Design of Components

#### 1. Login Screen(Admin and Student)

- a. Create New user/Sign-Up page
- b. Create Sign-in Page

#### 2. Admin Dashboard

- a. View Summary of Student and Courses
- b. View Uploaded Student Log data
- c. Upload Student data
  - Upload Performance, Interest and Goal of student from previous Term
  - Uploaded Enrollment Data
  - Download Summary Report of Uploaded Enrollment Data
  - View Summary Report of Uploaded Enrollment Data
- d. Course Data
  - View Course data with prerequisites, corequisites, and required minimum hours of study
  - Create Course data with prerequisites, corequisites, and required minimum hours of study
  - Delete Course data with prerequisites, corequisites, and required minimum hours of study
  - Edit Course data with prerequisites, corequisites, and required minimum hours of study



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## e. Learning Paths

- View all Generated each Learning path
- Add Rating and Feedback for each Learning path
- Edit Rating and Feedback for each Learning path
- Create Rating and Feedback for each leaning path

## 3. Student Dashboard

- a. Show Current Learning Path
- b. Show and add Feedback on Completed Course
- c. Show upcoming Course
- d. Show all Learning Path generated by Recommendation system
- e. Add Feedback and Rating on generated by Recommendation system
- f. Show Previous Recommended Learning Path
  - Add new learning Path
  - Add Academic interests.
  - Learning Goal
  - Schedule
  - Commitments

## 4. Common

- a. Data Preparation for Each Table
- b. Course professor or instructor will get alert if course rating is less than 3
  - Dynamic Report Template creation
  - Email formatting
  - Write Schedule JOB to send Email if Rating of Course Feedback in Less than 3
  - Email JOB scheduler
  -



# **Final Project Report**

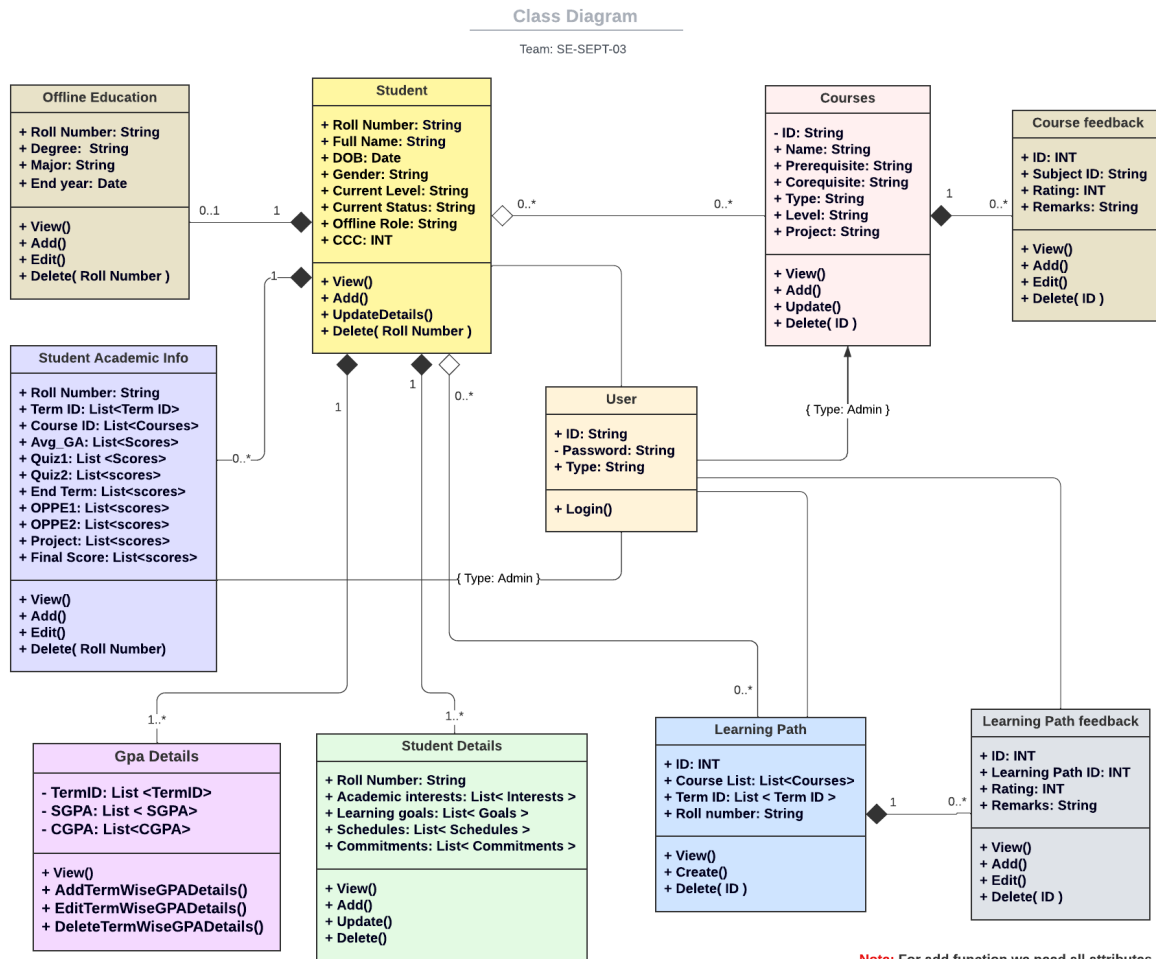
- Email Template for Notification on Performance on Recommendation Engine
- c. ML model for Recommendation Engine
  - Data Cleaning
  - Feature Engineering
  - Model Architecture
  - Model Training
  - Model Evaluation
  - Hyper parameter Tuning
  - Model Deployment
  - Saving Model checkpoint into Google Drive Storage
  - API Integration with Application





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## Class Diagram





# **Final Project Report**

## **Sprint Schedules**

### **Sprint 1 ( 28-sep to 12-oct)**

- Identify Users and write user stories

### **Sprint 2 ( 13-oct to 26-oct)**

- Create a storyboard for the application
- Create low-fidelity wireframes

### **Sprint 3 ( 28-oct to 2-Nov)**

- Project Scheduling and Jira setup
- Create Class diagram
- Create Components

### **Sprint 4 ( 1-Nov to 8-Nov)**

- Create Academic interests, Learning goals, schedules, and commitments
- Edit a existing Create Academic interests, Learning goals, schedules, and commitments
- Delete Academic interests, Learning goals, schedules, and commitments
- Create View to read data during Model preparation
- View the Term and Subject Wise score in Student Dashboard
- View all the courses registered till now
- Create Feedback for each course
- Edit Feedback for each course
- Delete Feedback for each course



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## **Sprint 5 ( 9-Nov to-16 Nov)**

- Data Cleaning
- Feature Engineering
- Model Architecture
- Model Training
- Model Evaluation
- Hyper parameter Tuning
- Model Deployment
- Saving Model checkpoint into Google Drive Storage
- API Integration with Application

## **Sprint 6 ( 17-Nov to 24-Nov)**

- View uploaded Enrollment Data
- Edit uploaded Enrollment Data
- Delete uploaded Enrollment Data
- Create Signup Page for Login
- Database validation for Access
- View all Generate Learning Path
- Compare Generate Path with Student actually selected Path with Score
- Create Course data with prerequisites, corequisites, and required minimum hours of study
- Edit Course data with prerequisites, corequisites, and required minimum hours of study
- Delete Course data with prerequisites, corequisites, and required minimum hours of study
- View Course data with prerequisites, corequisites, and required minimum hours of study



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## Sprint 7 ( 25-Nov to 2-Dec)

- Uploaded Enrollment Data
- Upload Performance, Interest and Goal of student from previous Term
- View Summary Report of Uploaded Enrollment Data
- Download Summary Report of Uploaded Enrollment Data
- Create Rating and Feedback for each leaning path
- Edit Rating and Feedback for each Learning path
- Edit Rating and Feedback for each Learning path
- Create Sign-in Page
- Create New user/Sign-Up page
- Database validation for Admin and Student during login

## Sprint 8 ( 3 Dec to 10 Dec)

- Write Schedule JOB to send Email if Rating of Course Feedback in Less than 3
- Email formatting
- Dynamic Report template creation
- Email Template for Notification on Performance on Recommendation Engine
- Email JOB scheduler

[Link To Detail Scheduling](#)

## WorkFlow

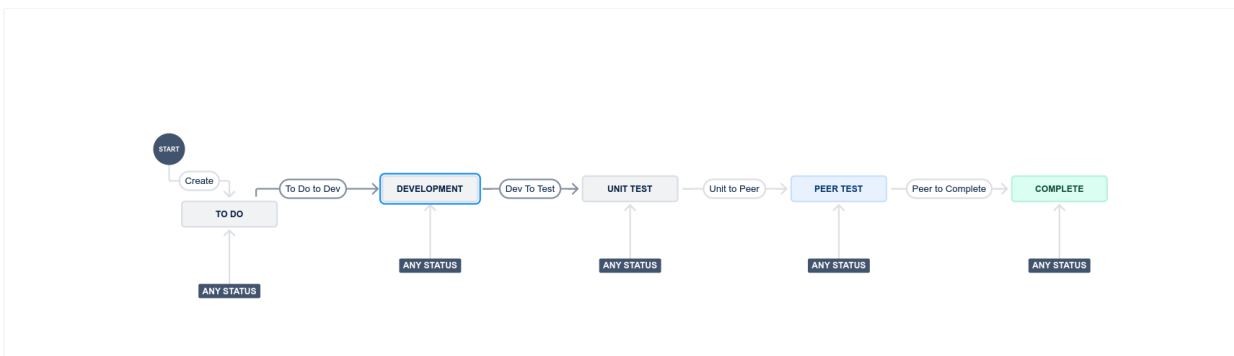
Story workflow

Current status

DEVELOPMENT

This issue can be moved to

TO DO UNIT TEST PEER TEST COMPLETE





# Final Project Report

## Scrum Meeting Schedule and Minutes

Sprint	Date	Description	Resp	Deadline
Sprint 1	28/09/2023	Go through first two weeks of lectures	Everyone	1/10/2023
Sprint 1	28/09/2023	Read the problem statement and imagine user stories in the suggested format	Everyone	5/10/2023
Sprint 1	28/09/2023	Explore online tools for preparing user stories	Sandip	6/10/2023
Sprint 1	7/10/2023	Preparation of User Stories	Prashant, Aditi	07/10/2023
Sprint 1	7/10/2023	Going through Each user stories and evaluate according to SMART Guidelines	Everyone	9/10/2023
Sprint 1	11/10/2023	Going through Data upload templates to decide user requirements	Everyone	11/10/2023
Sprint 1	11/10/2023	Finalize submission for Milestone-1 and make submission	Prashant	13/10/2023
Sprint 1	12/10/2023	Discussion about logic behind recommendation engine	Everyone	13/10/2023
Sprint 2	23/10/2023	Go through Milestone 2 requirements	Everyone	23/10/2023
Sprint 2	23/10/2023	Review tools to be used for generating user story boards	Everyone	24/10/2023
Sprint 2	23/10/2023	Generate user story boards and wireframe	Prashant	24/10/2023
Sprint 2	23/10/2023	Review user story boards and make necessary changes	Everyone	25/10/2023
Sprint 2	23/10/2023	Prepare submission file for Milestone-2 and make submission	Prashant	26/10/2023
Sprint 3	30/10/2023	Go through milestone-3 requirements and plan future meetings and preparations.	Everyone	30/10/2023
Sprint 3	30/10/2023	Initial discussion on models to be considered for back end and iron out attributes and methods for each model	Everyone	30/10/2023
Sprint 3	31/10/2023	Initial scheduling for the project using JIRA and creating tasks and sprints	Mukesh	02/11/2023



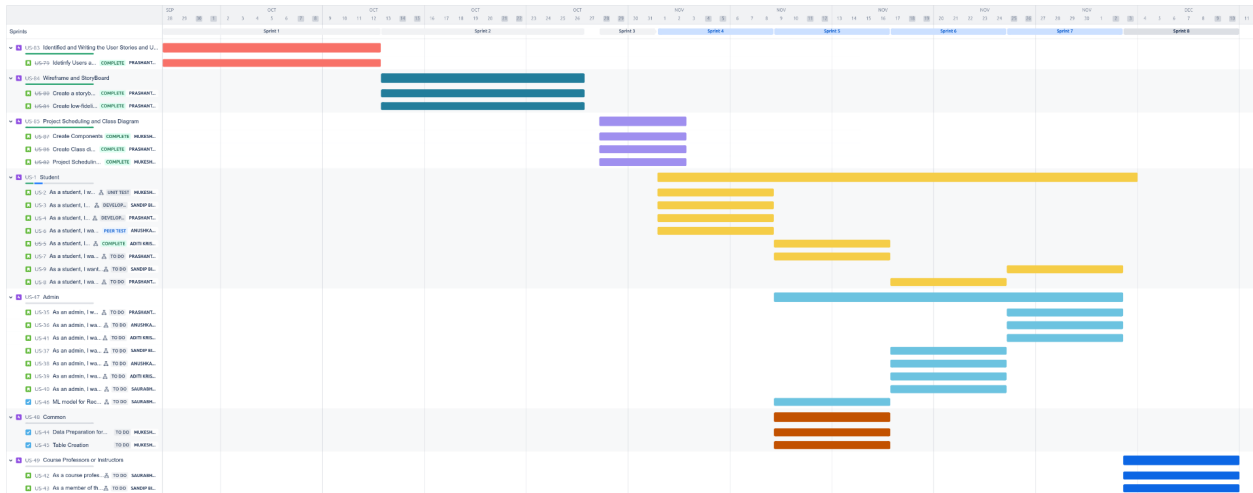
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Sprint 3	31/10/2023	Class diagram to be prepared	Prashant	02/11/2023
Sprint 3	2/10/2023	Reviewing the Class Diagram	Everyone	02/11/2023
Sprint 3	2/10/2023	Component Diagram Discussion	Everyone	02/11/2023
Sprint 3	2/10/2023	Task assignment	Mukesh	02/11/2023
Sprint 3	3/10/2023	Review and Discuss Milestone 3 submission files	Everyone	03/11/2023
Sprint 3	3/10/2023	Finalize submission for Milestone-3 and make submission	Prashant	03/11/2023



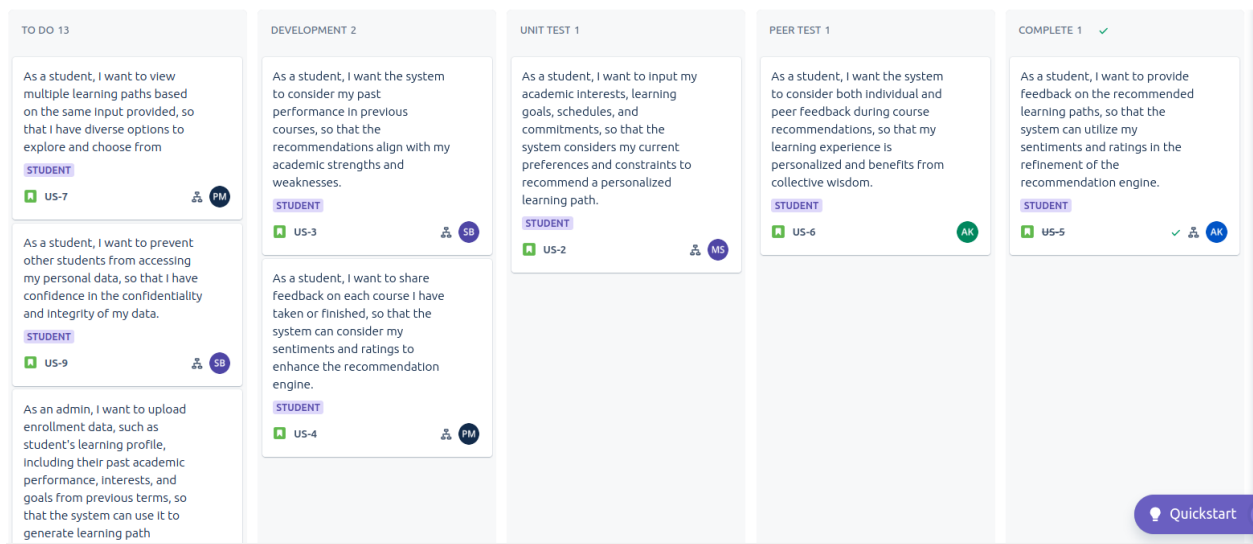
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## GANTT Chart



[View full chart](#)

## Partial Kanban Board

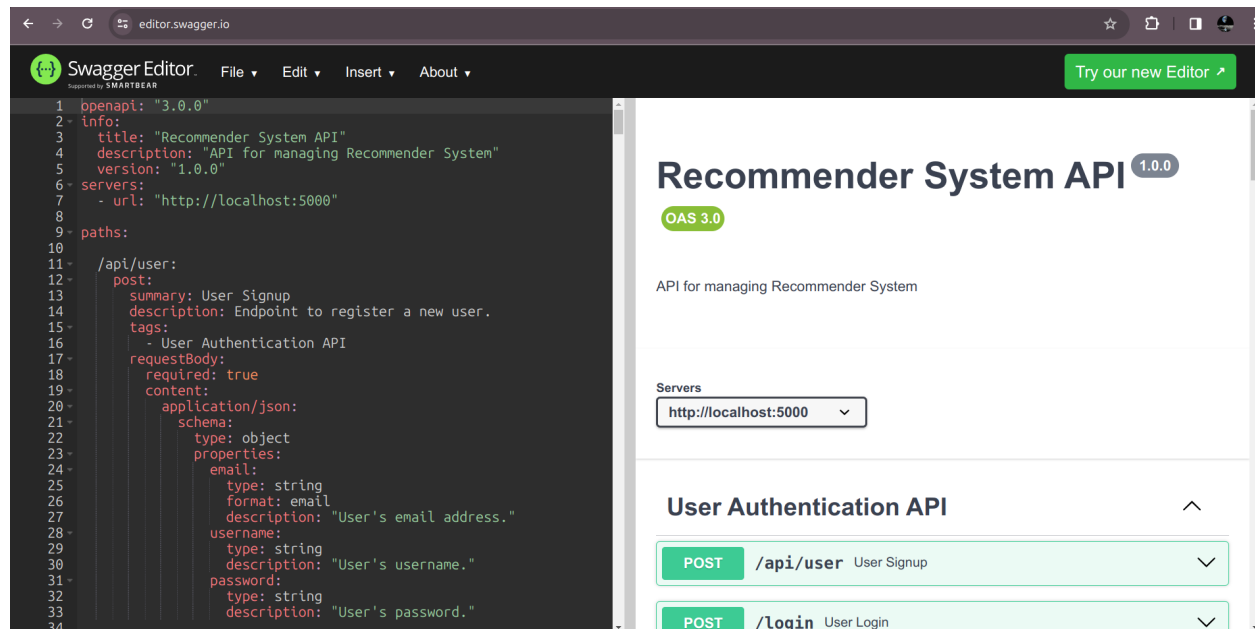




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## Milestone 4 submission

### API Documentation



[YAML Documentation Link](#)

## Milestone 5 submission

### TESTING

User Story :- Secure student interface

API being tested : <http://127.0.0.1:5000/api/user>

Inputs :

Request Mode :- **POST**

Json Body as

```
{  
  "email": "testuser@example.com",  
  "username": "testuser",  
  "password1": "testpassword",  
}
```





# Final Project Report

## 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
```

User Story :- Providing multiple learning paths

API being tested : [http://127.0.0.1:5000/api/learning\\_path/1](http://127.0.0.1:5000/api/learning_path/1)

Inputs :

Request Mode :- POST

Json Body as



# Final Project Report

```
{  
  "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"]  
}
```

## 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_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
```



# Final Project Report

**User Story :- Providing multiple learning paths**

**API being tested :** [http://127.0.0.1:5000/api/learning\\_path/1](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"
```

```
}
```

**Result- Success**

```
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](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

```
{
```



# Final Project Report

```
"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](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



# Final Project Report

```
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"}  
]
```

### 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



# Final Project Report

```
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](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](http://127.0.0.1:5000/api/all_learning_paths)



# Final Project Report

## 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

```
{
  [
    {"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_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



# Final Project Report

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,
  "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/api/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**





# Final Project Report

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

```
{  
  "learning_path_id": 101,  
  "rating": 5,  
  "remarks": "Excellent content!",  
  "created": "2023-12-06T11:39:52Z"  
}
```

**Result- Success**



# Final Project Report

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

**Actual Output :**

Error throws in pytest

**Result-** Fail



# Final Project Report

```
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",  
      "prerequisite": "",  
      "corequisite": "",  
      "type_": "Programming",  
      "level": "2",  
      "project": "MAD1 Project"  
    },  
  ],  
}
```



# Final Project Report

```
{
  "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"
},
{
  "id": 3,
  "name": "MAD2",
  "prerequisite": "MAD1",
  "corequisite": "",
```



# Final Project Report

```
"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

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



# Final Project Report

```
'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',  
}
```



# Final Project Report

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',
```



# Final Project Report

```
}
```

**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**





# Final Project Report

```
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

**Result-** Success

```
def test_put_course_error():  
    api_url = 'http://127.0.0.1:5000/api/course/CSS04'  
    # Intentionally 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
```



# Final Project Report

**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

**Result-** Success

```
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
```



# Final Project Report

**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"
}
```

**Result- Success**

```
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
```



# Final Project Report

### User Story :- Enhancing recommendations through feedback

**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

**API being tested :** <http://127.0.0.1:5000/api/CourseFeedback/10000000000000000000>

**Inputs :**

Request Mode :- **GET**

User Id =10000000000000000000000000

**Expected output:**

HTTP Status Code = 403 FORBIDDEN

Return Json Result as

```
{
  "message": "Internal Server Error"
}
```

**Actual Output :**



# Final Project Report

HTTP Status Code = 403 FORBIDDEN

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/CourseFeedback/1000000000000000000'  
  
    # 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 :** <http://127.0.0.1:5000/api/CourseFeedback/>

**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"  
}
```



# Final Project Report

## Actual Output :

HTTP Status Code = 201 CREATED

```
{
  "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
    assert response.status_code == 201
```

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

**API being tested :** <http://127.0.0.1:5000/api/CourseFeedback/1>

**Inputs :**

Request Mode :- **POST**

User Id =1

Json Body

```
{
  "subject_id": ,
  "rating": 5,
  "remarks": "Very good"
}
```



# Final Project Report

## 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": 1,  
        "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 :** <http://127.0.0.1:5000/api/CourseFeedback/1/1>

**Inputs :**

Request Mode :- **PUT**

User Id =1

Subject ID =1

Json Body

```
{  
  "rating": 4,  
  "remarks": "Very good update"  
}
```



# Final Project Report

## 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"
}
```

## Result- Success

```
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
```





# Final Project Report

**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  
}
```



# Final Project Report

}

## Result- Success

```
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",
```



# Final Project Report

```
"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"
}
```



# Final Project Report

## Actual Output :

```
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

**API being tested :** http://127.0.0.1:5000/StudentProfile/29999999999999

## Inputs :

Request Mode :- **GET**  
RollNumberParam =29999999999999

## 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



# Final Project Report

```
def test_Studentprofile_get_call_fail():  
    api_url = 'http://127.0.0.1:5000/api/StudentProfile/2999999999999'  
  
    # 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\\_academic\\_info](http://127.0.0.1:5000/api/add_student_academic_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  
}
```



# Final Project Report

```
}
```

## 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_academic_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
```



# Final Project Report

**User Story :- Upload Student GPA Details**

**API Used:** [http://127.0.0.1:5000/api/add\\_gpa](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  
}
```

**Result- Success**



# Final Project Report

```
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](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"  
}
```

**Result- Success**





# Final Project Report

```
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)  
  ],  
  "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"  
}
```



# Final Project Report

## Actual Output :

```
HTTP Status Code = 200
HTTP Status Code = 200
{
  "students": [
    {"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)
  ],
  "courses": 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"
}
```

## Result- Success

```
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
```



# Final Project Report

## Implementation Details of the Project

### Technologies and tools used

#### Technologies for the Backend

- Flask== 3.0.0
- Flask-Cors==3.0.10
- Flask-Login==0.6.3
- Flask-Principal==0.4.0
- Flask-RESTful==0.3.9 ( For creating API endpoints)
- Flask-SQLAlchemy==3.0.3
- Jinja2==3.1.2
- MarkupSafe==2.1.3
- requests==2.28.1
- SQLAlchemy==2.0.23 (SQL toolkit and Object Relational Mapper)
- typing\_extensions==4.8.0
- Werkzeug==3.0.1
- Flask-Security-Too == 5.3.2 ( Secure Login-Logout Interface)
- matplotlib ==3.8.2 ( Path Generation)
- bcrypt==4.0.1
- blinker==1.7.0
- bleach == 6.1.0
- Sqlite3 (For database)



# **Final Project Report**

## **Technologies for the Frontend**

- Vue 3 CLI
- JavaScript
- Vue Router
- Bootstrap v5
- Font awesome

## **Technologies for the Recommender system**

- Streamlit
- Python

## **General technologies used**

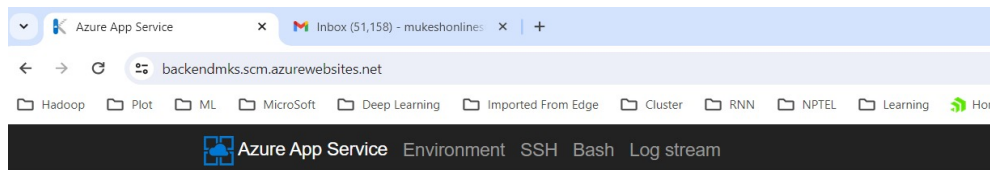
- GitHub (for versioning, code management, tracking, reviewing, issues, etc.).
- Jira (for project management).
- Google Calendar ( For Scheduling Meetings)
- Whatsapp Group ( For internal communication)
- IDE :- VS code
- Lucid ( For UML diagrams and Wireframe)
- Animaker ( For making animated video)
- Canva and Slides (PPT making)
- Excel sheets ( MOM, Data management)
- Chatgpt ( Getting idea for synthetic data generation)



# Final Project Report

## Hosting:

- API Hosting on - Azure App service
- Recommendation system - Huggingface spaces.



### Environment

Build	1.0.0.7 (e59ed50ca2)
Site up time	00:21:02:27
Site folder	/home
Temp folder	/tmp/

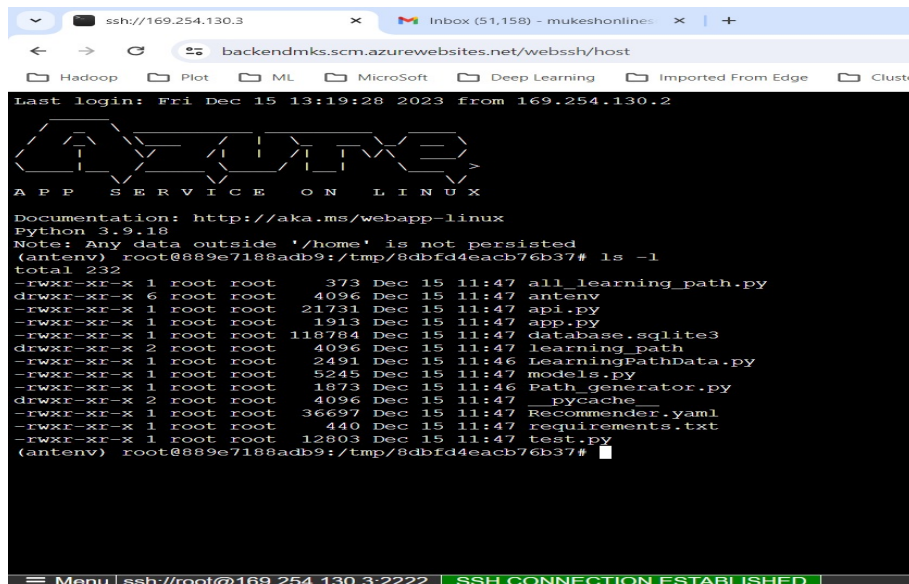
### REST API (works best when using a JSON viewer extension)

- App Settings
- Deployments
- Source control info
- Files
- Current Docker logs (Download as zip)

### Browse Directory

- Deployment Logs
- Site wwwroot

More information about Kudu can be found on the [wiki](#).





# Final Project Report

## Instructions to run the application

### On Ubuntu/Linux/MAC/Windows OS:

- Git clone the repository.
- Change the directory to the “backend” directory inside the “Milestone-6-Final-Submission” directory using the command :  
**cd .\Milestone-6-Final-Submission\Code\backend**
- Activate the virtual environment using the command :  
**source env/bin/activate**
- Install the requirements using the command :  
**pip3 install -r requirements.txt**
- Run the app using command :  
**python3 app.py**
- Open new terminal change the directory to the “frontend” directory inside the “Milestone-6-Final-Submission” directory using the command :  
**cd .\Milestone-6-Final-Submission\Code\frontend**
- First make sure that node and npm are installed in your system.
- Install Vue-cli using command :  
**npm install -g @vue/cli**
- Install font-awesome using command :  
**npm install --save @fontawesome/fontawesome-free**
- Now run the vue application using the command:  
**npm run serve**
- Now navigate to this link <http://localhost:8080/>
- And use the application as shown in the [Demo video](#)



# Final Project Report

## Code review issue reporting and tracking

### Issue tracker

bsc-iitm / soft-engg-project-sept-2023-se-sept-03

Filters: is:issue is:closed









Clear current search query, filters, and sorts

<input type="checkbox"/>	0 Open	✓ 6 Closed	Author	Label	Projects	Milestones	Assignee	Sort
<input type="checkbox"/>		<input checked="" type="checkbox"/>						
		<input checked="" type="checkbox"/>						
		<input checked="" type="checkbox"/>						
		<input checked="" type="checkbox"/>						
		<input checked="" type="checkbox"/>						
		<input checked="" type="checkbox"/>						



# Final Project Report

## Github Activities / Pull requests

Add files via upload	...
 sandipbnvn pushed 1 commit to <code>main</code> • fb27f06...b136040 • 19 days ago	...
Merge pull request #1 from AiSaurabhPatil/sandip_api <a href="#">Pull request merge</a>	...
 AiSaurabhPatil pushed 2 commits to <code>main</code> • bf77251...fb27f06 • 24 days ago	...
Changes up to milestone 4	...
 pacificrm pushed 1 commit to <code>main</code> • 7581171...bf77251 • 24 days ago	...
Added API endpoints for uploading student data	...
 sandipbnvn created <code>sandip_api</code> • 9800da2 • on 14 Nov	...
backend and frontend arrangement	...
 pacificrm pushed 2 commits to <code>main</code> • b7a0362...7581171 • on 14 Nov	...
backend and frontend arrangement	...
 pacificrm pushed 1 commit to <code>main</code> • bfad91a...b7a0362 • on 14 Nov	...
backend and frontend arrangement	...
 pacificrm pushed 2 commits to <code>main</code> • 9b1a46e...bfad91a • on 14 Nov	...
Update README.md	...
 AiSaurabhPatil pushed 1 commit to <code>main</code> • 047bb1f...9b1a46e • on 7 Nov	...





# Final Project Report

## Code review

### Code Review - API was not returning in common JSON format for error handling #7

Closed

mukeshonlinesiitm opened this issue 6 minutes ago · 3 comments

mukeshonlinesiitm commented 6 minutes ago

Please check you code and correct the JSON for error message

mukeshonlinesiitm assigned mukeshonlinesiitm, AiSaurabhPatil and pacificrm 6 minutes ago

pacificrm commented 4 minutes ago

I have corrected my part.

pacificrm closed this as completed 4 minutes ago

mukeshonlinesiitm reopened this 4 minutes ago

AiSaurabhPatil commented 1 minute ago

I have corrected as per the instructions given

mukeshonlinesiitm commented 1 minute ago

all code fixed.

Assignees

AiSaurabhPatil  
pacificrm  
mukeshonlinesiitm

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Create a branch for this issue or link a pull request.

Notifications

Customize

Unsubscribe

You're receiving notifications because you modified the open/close state.

3 participants

Lock conversation

Pin issue 1

Transfer issue

Delete issue

57