API Documentation

Student & Enrolment Management

This document provides the technical specification for the API endpoints related to managing student profiles and their course enrolments, as defined in student_route.py. The endpoints are segregated by user roles.

General Features (Learning Advisor & Manager)

These endpoints provide read-only access to student and enrolment data for authorised administrative staff.

1. Get All Students

Retrieves a list of all student profiles in the system.

- Endpoint: GET /student/
- Description: Fetches a complete list of all student records.
- Authentication: Learning Advisor or Manager Role Required.

- 200 OK (Success)
 - o **Description**: Returned with a list of all student profiles.
 - o Body:

- 403 Forbidden (Unauthorized)
 - Description: Returned if the user does not have the required role.
 - Body:

```
{
    "message": "Access denied for Teacher"
}
```

2. Search for Student

Retrieves a single student profile by their unique ID.

- **Endpoint**: GET /student/search
- Authentication: Learning Advisor or Manager Role Required.

Query Parameters

Parameter	Туре	Required	Description
id	String	Yes	The unique ID of the student to search for.

Responses

- 200 OK (Success)
 - Body: The requested student object.
- 404 Not Found
 - o Body:

```
{
    "message": "Student not found"
}
```

3. Get All Enrolments

Retrieves a list of all enrolment records in the system.

- **Endpoint**: GET /student/enrolment/
- Authentication: Learning Advisor or Manager Role Required.

Responses

- 200 OK (Success)
 - Body: A JSON array of all enrolment objects.

4. Search for Enrolment

Retrieves a single enrolment record by its unique ID.

- **Endpoint**: GET /student/enrolment/search
- Authentication: Learning Advisor or Manager Role Required.

Query Parameters

Parameter	Туре	Required	Description
id	String	Yes	The unique ID of the enrolment to search for.

- 200 OK (Success)
 - Body: The requested enrolment object.
- 404 Not Found
 - o Body:

```
{
    "message": "Enrolment not found"
}
```

Learning Advisor Features

These endpoints allow Learning Advisors to perform full CRUD operations on student and enrolment records.

5. Add Student

Creates a new student profile.

• **Endpoint**: POST /student/learningadvisor/add

• Authentication: Learning Advisor Role Required.

Request Body

Field	Туре	Required	Description
id	String	Yes	A unique identifier for the student.
fullname	String	Yes	The student's full name.
contact_info	String	Yes	Contact details for the student/guardian.
date_of_birth	Date	Yes	The student's date of birth (YYYY-MM-DD).

6. Update Student

Updates the details of an existing student profile.

• **Endpoint**: PUT /student/learningadvisor/update

• Authentication: Learning Advisor Role Required.

Query Parameters

Parameter	Туре	Required	Description
id	String	Yes	The unique ID of the student to update

Request Body

A JSON object containing the fields to be updated (e.g., contact_info).

Responses

- 200 OK (Success)
 - Body:

```
{
    "message": "Student deleted successfully"
}
```

- 400 Bad Request (Constraint Violation)
 - Description: Occurs if the student is linked to other records (e.g., contracts) and cannot be deleted.
 - o Body:

```
{
    "message": "Violate database constraint",
    "error": ...
}
```

8. Add Enrolment

Creates a new enrolment record, officially linking a student's contract to a course.

- **Endpoint**: POST /student/enrolment/learningadvisor/add
- Authentication: Learning Advisor Role Required.

Request Body

Field	Туре	Required	Description
id	String	Yes	A unique identifier for the enrolment.
contract_id	String	Yes	The ID of the associated contract.
student_id	String	Yes	The ID of the student being enrolled.
course_id	String	Yes	The ID of the course for enrolment.
course_date	Date	Yes	The creation date of the course instance.
enrolment_date	Date	Yes	The date of official enrolment.

- 201 Created (Success)
 - Body: The newly created enrolment object.
- 404 Not Found
 - ∘ Body:

```
{
    "message": "Contract not found"
}
or
{
    "message": "Student not found"
}
```

9. Update & Delete Enrolment

Updates or deletes an existing enrolment record.

- Endpoints:
 - o PUT /student/enrolment/learningadvisor/update
 - DELETE /student/enrolment/learningadvisor/delete
- Authentication: Learning Advisor Role Required.

Query Parameters

Parameter	Туре	Required	Description
id	String	Yes	The unique ID of the enrolment to modify

Responses

- 200 OK (Success)
 - Body:

```
{
    "message": "Enrolment updated successfully"
}
or
{
    "message": "Enrolment deleted successfully"
}
```

404 Not Found

o Body:

```
{
    "message": "Enrolment not found"
}
```

Teacher Features

This endpoint provides Teachers with read-only access to student information relevant to their classes.

10. Get Students by Class

Retrieves a list of all students enrolled in a specific class.

- **Endpoint**: GET /student/teacher/
- Authentication: Teacher Role Required.

Query Parameters

Parameter	Туре	Required	Description
id	String	Yes	The unique ID of the class

- 200 OK (Success)
 - Body: A JSON array of student profiles for the specified class.
- 404 Not Found
 - o Body:

```
{
    "message": "Class not found"
}
or
{
    "message": "Missing class ID in query params"
}
```