API Documentation

Contract Management

This document provides the technical specification for the API endpoints related to managing student contracts, as defined in contract_route.py. The endpoints are segregated by user roles: **Learning Advisor** and **Manager**.

Learning Advisor Features

These endpoints allow Learning Advisors to perform full CRUD operations on the contracts they are responsible for.

1. Add Contract

Creates a new student contract.

- **Endpoint**: POST /contract/learningadvisor/add
- **Description**: Creates a new contract linking a student to a specific course. The employee_id for the contract is automatically set to that of the logged-in Learning Advisor.
- **Authentication**: **Learning Advisor Role Required**.

Request Body

Field	Type	Required	Description
id	String	Yes	A unique identifier for the new contract (e.g., "CT003").
student_id	String	Yes	The ID of the student for this contract.
course_id	String	Yes	The ID of the course for this contract.

course_date	Date	Yes	The creation date of the course instance.
tuition_fee	Integer	Yes	The agreed-upon tuition fee.
start_date	Date	Yes	The official start date of the study period.
end_date	Date	Yes	The official end date of the study period.

Example Request:

```
{
    "id": "CT003",
    "student_id": "ST001",
    "course_id": "C002",
    "course_date": "2025-07-04",
    "tuition_fee": 3200000,
    "start_date": "2025-08-07",
    "end_date": "2026-02-07"
}
```

Responses

- **201 Created (Success)**
    - **Body**: The newly created contract object.
- **400 Bad Request (Invalid Input)**
    - **Body:**

```
{
        "message": "Invalid input",
        "error": ...
}
```

- **403 Forbidden (Unauthorized)**
  - **Body:**
```
{
        "message": "Access denied for <user_role>"
}
```

- **404 Not Found (Student or Course not found)**
  - **Body:**
```
{
        "message": "Student not found" or
        "message": "Course not found"
}
```

- **409 Conflict (Duplicate Contract)**
  - **Body**
```
{
        "message": "Contract existed"
}
```

2. Get All Contracts (Learning Advisor)
Retrieves all contracts managed by the logged-in Learning Advisor.
- **Endpoint**: GET /contract/learningadvisor/
- **Authentication**: **Learning Advisor Role Required**.

Responses
- **200 OK (Success)**
  - **Body**: A JSON array of contract objects belonging to the authenticated user.

3. Search for Contract (Learning Advisor)

Retrieves a single contract by its ID, provided it is managed by the logged-in Learning Advisor.

- **Endpoint**: GET /contract/learningadvisor/search
- **Authentication**: **Learning Advisor Role Required**.

Query Parameters

Parameter	Type	Required	Description
id	String	Yes	The unique ID of the contract to update.

Responses

- **200 OK (Success)**
  - **Body**: The requested contract object.

- **404 Not Found**
  - **Body**

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

4. Update Contract

Updates the details of an existing contract.

- **Endpoint**: PUT /contract/learningadvisor/update
- **Authentication**: **Learning Advisor Role Required**.

Query Parameters

Parameter	Type	Required	Description
id	String	Yes	The unique ID of the contract to update.

Request Body

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

Responses

- **200 OK (Success)**
  - **Body**

```
{
        "message": "Contract updated successfully"
}
```

- **404 Not Found**
  - **Body**

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

5. Delete Contract

Deletes a contract from the system.

- **Endpoint**: DELETE /contract/learningadvisor/delete
- **Authentication**: **Learning Advisor Role Required**.

Query Parameters

Parameter	Type	Required	Description
id	String	Yes	The unique ID of the contract to delete.

Responses

- **200 OK (Success)**
  - **Body:**

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

- **404 Not Found**
  - **Body**
    ```
    {
          "message": "Contract not found"
    }
    ```

Manager Features

These endpoints provide Managers with read-only access to all contracts across the system.

1. Get All Contracts (Manager)

Retrieves a list of every contract in the system.

- **Endpoint**: GET /contract/manager/
- **Authentication**: **Manager Role Required**.

Responses

- **200 OK (Success)**
  - **Body**: A JSON array of all contract objects in the database.
- **403 Forbidden (Unauthorized)**
  - **Body:**
    ```
    {
          "message": "Access denied for <user_role>"
    }
    ```

2. Get Contract by ID (Manager)

Retrieves any single contract by its unique ID.

- **Endpoint**: GET /contract/manager/search
- **Authentication**: **Manager Role Required**.

Query Parameters

Parameter	Type	Required	Description
id	String	Yes	The unique ID of the contract to search for.

Responses

- **200 OK (Success)**

  - **Body**: The requested contract object.

- **404 Not Found**

  - **Body:**

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