**API Documentation: Course Management**

This document provides the technical specification for the API endpoints related to creating and managing course records, as defined in course_route.py.

**Learning Advisor Features**

**1. Add Course**

Creates a new course record. The learning_advisor_id is automatically set to the ID of the logged-in user.

- **Endpoint**: POST /course/learningadvisor/add
- **Authentication**: Learning Advisor Role Required.
- **Request Body**:

| Field | Type | Required | Description |
|-------|------|----------|-------------|
| name | String | Yes | The name of the course. Must be one of the predefined valid names. |
| duration | Integer | Yes | The duration of the course in months. |
| start_date | Date | Yes | The official start date of the course (YYYY-MM-DD). |
| schedule | String | Yes | The class schedule in the format "Day - |

| | | | Day, HH:MM - HH:MM". |
|---|---|---|---|
| fee | Integer | Yes | The tuition fee for the course. |
| prerequisites | String | Yes | The prerequisites for enrolling in the course. |
| created_date | Date | Yes | The creation date of this course instance (YYYY-MM-DD). |
| description | String | No | A brief description of the course. |

- **Example Request:**

```
{
        "name": "7th Grade Math",
        "duration": 6,
        "start_date": "2025-08-07",
        "schedule": "Mon - Wed, 18:45 - 21:45",
        "fee": 32000000,
        "prerequisites": "Passed 6th Grade",
        "created_date": "2025-07-04",
        "description": "Math for 7th grade students."
}
```

**Responses**:

- **201 Created (Success)**
  - **Description**: Returned when the course is created successfully.

- o **Body**: The newly created course object.

- **400 Bad Request (Invalid Input)**

  - o **Description**: Returned for various validation errors, such as an invalid course name, schedule format, or if the start_date is earlier than the created_date.

- **403 Forbidden**

  - o **Description**: Returned if the user making the request does not have the 'Learning Advisor' role.

## 2. Get All Assigned Courses

Retrieves a list of all courses managed by the logged-in Learning Advisor.

- **Endpoint**: GET /course/learningadvisor/

- **Authentication**: Learning Advisor Role Required.

- **Responses**:

  - o **200 OK (Success)**

    - ▪ **Description**: Returned with a list of the advisor's courses.

    - ▪ **Body**:

```
[
    {
        "name": "7th Grade Math",
        "duration": 6,
        "start_date": "2025-08-07",
        "schedule": "Mon - Wed, 18:45 - 21:45",
        "fee": 32000000,
        "prerequisites": "Passed 6th Grade",
        "created_date": "2025-07-04",
        "description": "Math for 7th grade students."
    }
]
```

## 3. Search for Assigned Course

Retrieves a single course by its composite key, provided it is managed by the logged-in Learning Advisor.

- **Endpoint**: GET /course/learningadvisor/search
- **Authentication**: Learning Advisor Role Required.
- **Query Parameters**:

| Parameter | Type | Required | Description |
|-----------|------|----------|-------------|
| id | String | Yes | The unique ID of the course to search for. |
| course_date | Date | Yes | The creation date of the course instance. |

**Responses**:

- **200 OK (Success)**
  - **Description**: Returned with the requested course object.
- **404 Not Found**
  - **Description**: Returned if the course is not found or not managed by the logged-in advisor.

## Manager Features

## 4. Get All Courses

Retrieves a list of every course in the system.

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

- **Responses**:
  - **200 OK (Success)**
    - **Description**: Returned with a JSON array of all course objects.

## 5. Search for Any Course

Retrieves any single course by its composite key.

- **Endpoint**: GET /course/manager/search

- **Authentication**: Manager Role Required.

- **Query Parameters**:

| Parameter | Type | Required | Description |
|-----------|------|----------|-------------|
| id | String | Yes | The unique ID of the course to search for. |
| course_date | Date | Yes | The creation date of the course instance. |

**Responses**:

- **200 OK (Success)**
  - **Description**: Returned with the requested course object.
- **404 Not Found**
  - **Description**: Returned if no course with the specified ID and date exists.