# API Documentation

Employee Management

This document provides the technical specification for the API endpoints related to creating and managing employee profiles, as defined in *employee_route.py*.

## 1. Add Employee

Creates a new employee profile in the system.

- **Endpoint**: POST /employee/add
- **Description**: Creates a new record for an employee, including their personal details and role. This is a protected administrative action.
- **Authentication**: **Manager Role Required**. The request must include a valid access token for a user with the 'Manager' role in the Authorization header.

**Request Body**

| Field | Type | Required | Description |
|---|---|---|---|
| id | String | Yes | A unique identifier for the new employee (e.g., "EM005"). |
| full_name | String | Yes | The employee's full name. |
| email | String | Yes | The employee's unique email address. |
| role | String | Yes | The employee's role. Must be 'Teacher', 'Learning Advisor', or 'Manager'. |
| phone_number | String | No | The employee's unique phone number. Can be null. |

| teacher_status | String | No | Required if role is 'Teacher'. Must be 'Available' or 'Unavailable'. Must be null for other roles. |
| --- | --- | --- | --- |

**Example Request:**

```
{
    "id": "EM005",
    "full_name": "Arthur Morgan",
    "email": "arthurmorgan@example.com",
    "role": "Teacher",
    "phone_number": "0918631899",
    "teacher_status": "Available"
}
```

**Responses**

- **201 Create (Success)**
  - **Description:** Returned when the employee profile is created successfully.
  - **Body:**

```
{
    "id": "EM005",
    "full_name": "Arthur Morgan",
    "email": "arthurmorgan@example.com",
    "role": "Teacher",
    "phone_number": "0918631899",
    "teacher_status": "Available"
}
```

- **400 Bad Request (Invalid Input / Constraint Violation)**
  - **Description:** Returned if required fields are missing, the data is malformed (e.g., invalid role), or a database constraint is violated (e.g., duplicate email).

- **Body:**

```
{
    "message": "Invalid input",
    "error": {
        [
            "Must be one of: Teacher, Learning Advisor,
            Manager."
        ]
    }
}
```

- **403 Forbidden (Unauthorised)**
  - **Description:** Returned if the user making the request does not have the 'Manager' role.
  - **Body:**

```
{
    "message": "Access denied for <user_role>"
}
```

- **409 Conflict (Duplicate Entry)**
  - **Description:** Returned if an employee with the same *id* or *email* already exists.
  - **Body:**

```
{
    "message": "Violate database constraint"
}
```

## 2. Get All Employees

Retrieves a list of all employee profiles.

- **Endpoint**: GET /employee/

- **Description**: Fetches a complete list of all employee records in the system. This is a protected administrative action.

- **Authentication**: **Manager Role Required**. The request must include a valid access token for a user with the 'Manager' role in the Authorization header.

**Request Body**

(None)

**Responses**

- **200 OK (Success)**
  - **Description:** Returned with a list of all employee profiles.
  - **Body:**
    ```
    [
        {
            "id": "EM001",
            "full_name": "Nguyen Minh Khoi",
            "email": "nmk069@gmail.com",
            "role": "Teacher",
            "phone_number": "0901298756"
            "teacher_status": "Available"
        },
        {
            .
            .
            .
        }
    ]
    ```

- **403 Forbidden (Unauthorised)**
  - **Description:** Returned if the user making the request does not have the 'Manager' role.
  - **Body:**
    ```
    {
        "message": "Access denied for <user_role>"
    }
    ```