**Employee API**

**Model: Employee**

{

"EmployeeID": 1,

"Name": "John Doe",

"Department": "IT",

"Salary": 50000.00

}

* **EmployeeID**: integer (unique identifier for an employee)
* **Name**: string (required, max length 100)
* **Department**: string (required, max length 100)
* **Salary**: decimal (must be greater than 0)

**Endpoints**

**1. Get All Employees**

**Endpoint**: GET /api/employees

**Description**: Fetches a list of all employees.

**Response**:

* **200 OK**: Returns an array of Employee objects.
* **500 Internal Server Error**: If an error occurs on the server.

[

{

"EmployeeID": 1,

"Name": "John Doe",

"Department": "IT",

"Salary": 50000.00

},

{

"EmployeeID": 2,

"Name": "Jane Smith",

"Department": "HR",

"Salary": 60000.00

}

]

**2. Get Employee by ID**

**Endpoint**: GET /api/employees/{id}

**Description**: Fetches a specific employee by their ID.

**Request Parameters**:

* **id**: integer (required) - The ID of the employee.

**Response**:

* **200 OK**: Returns the Employee object if found.
* **404 Not Found**: If the employee with the specified ID does not exist.
* **500 Internal Server Error**: If an error occurs on the server.

{

"EmployeeID": 1,

"Name": "John Doe",

"Department": "IT",

"Salary": 50000.00

}

**3. Add New Employee**

**Endpoint**: POST /api/employees

**Description**: Adds a new employee to the system.

**Request Body**:

* **Employee** object (required)

{

"EmployeeID": 3,

"Name": "Alice Johnson",

"Department": "Marketing",

"Salary": 45000.00

}

**Response**:

* **201 Created**: Returns the created Employee object and sets the Location header to the new resource.
* **400 Bad Request**: If the model validation fails or the employee already exists.
* **500 Internal Server Error**: If an error occurs on the server.

{

"EmployeeID": 3,

"Name": "Alice Johnson",

"Department": "Marketing",

"Salary": 45000.00

}

**4. Update Employee**

**Endpoint**: PUT /api/employees/{id}

**Description**: Updates an existing employee’s details.

**Request Parameters**:

* **id**: integer (required) - The ID of the employee to update.

**Request Body**:

* **Employee** object (required)

{

"EmployeeID": 1,

"Name": "John Updated",

"Department": "Finance",

"Salary": 55000.00

}

**Response**:

* **204 No Content**: If the update is successful.
* **400 Bad Request**: If the ID in the URL and the employee object do not match.
* **404 Not Found**: If the employee with the specified ID does not exist.
* **500 Internal Server Error**: If an error occurs on the server.

**5. Delete Employee**

**Endpoint**: DELETE /api/employees/{id}

**Description**: Deletes an employee from the system.

**Request Parameters**:

* **id**: integer (required) - The ID of the employee to delete.

**Response**:

* **204 No Content**: If the deletion is successful.
* **404 Not Found**: If the employee with the specified ID does not exist.
* **500 Internal Server Error**: If an error occurs on the server.