**School Fee Management API Documentation**

**Base URL: /**

**Swagger url : http://localhost:8080/swagger-ui.html**

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| **Module** | **Base URL** |
| --- | --- |
| Student | /student |
| Fee | /fee |
| Receipt | /receipt |

**1. Fee Payment API**

**1.1 Get All Fees**

**Endpoint:**  
GET /fee/getAllFees

**Description:**  
Api to retrieve the complete list of fee catalog entries from the database.

**Request Parameters:**  
None

**Response:**

* 200 OK – JSON array of fee entries.

**Response Example:**

[

{

"id": "FEE101",

“category": "Tuition Fee",

"description": "Tuition Fee – Class 1",

"amount": 2500.0,

"status": 1,

"createdDate": "2025-07-10 10:00:00 AM"

},

{

"id": "FEE102",

"category": "Transport"

"description": "Transport Fee - Zone A",

"amount": 800.0,

"status": 1,

"createdDate": "2025-07-09 10:10:00 PM"

}

]

**1.2 Collect Fee Payment**

**Endpoint:**  
POST /fee/collect

**Description:**  
Api to collect fee payment for a student, process the payment (mocked currently), save the details to the database and generate a receipt which is returned as response.

**Request Body:**

| **Field** | **Type** | **Required** | **Description** |
| --- | --- | --- | --- |
| studentId | String | Yes | Student unique identifier |
| feeId | String | Yes | Fee unique identifier |
| amount | Double | Yes | Payment amount |

**Request Example:**

{

"studentId": "STU123",

"feeId": "FEE101",

"amount": 2500.0

}

**Response:**

* 200 OK – JSON object representing the receipt created after making the payment. The receipt contains details of payment, status(success/failed) etc.

**Response Example:**

{

"receiptId": "RCPT5678",

"studentId": "STU123",

"feeId": "FEE101",

"amount": 2500.0,

"paymentStatus": "SUCCESS",

"paymentDate": "2025-07-10"

}

**2. Receipt API**

**2.1 Get Receipt by Order ID**

**Endpoint:**  
GET /receipt/getByOrderId/{orderId}

**Description:**  
Api to retrieve the receipt details associated with the given order ID.

**Path Parameters:**

| **Parameter** | **Type** | **Required** | **Description** |
| --- | --- | --- | --- |
| orderId | String | Yes | Unique order ID |

**Response:**

* 200 OK – JSON object of the receipt.
* 404 Not Found – If receipt does not exist.

**Response Example (200 OK):**

{

"receiptId": "RCPT5678",

"orderId": "ORD001",

"studentId": "STU123",

"feeId": "FEE101",

"amount": 2500.0,

"paymentStatus": "SUCCESS",

"paymentDate": "2025-07-10"

}

**Response Example (404 Not Found):**

{

"error": "Receipt not found for orderId: ORD999"

}

## 3. Student API Endpoints

## 3.1 Add Student

**End point**

**POST /student/save**

**Description**

Create a new student record and save to the database.

**Request:**

{

"firstName": "Liya",

"lastName": "Santhosh",

"dob": "2002-08-15”

}

**Response:**

{

"id": "STU001",

"firstName": "Liya",

"lastName": "Santhosh",

"dob": "2002-08-15",

"status": "1",

"createdDate": "2025-07-10"

}

## 3.2 Get All Students

**End point**

**GET /student/getAllStudents**

**Description**

Returns a list of all students.

**Request Parameters:**  
None

**Response:**

* 200 OK – JSON array of student entries.

**Response Example:**

[

{

"id": "STU001",

"firstName": "Liya",

"lastName": "Santhosh",

"dob": "2002-08-15",

"status": "1",

"createdDate": "2025-07-10"

},

{

"id": "STU002",

"firstName": "Ciya",

"lastName": "Santhosh",

"dob": "2008-10-17”,

"status": "1",

"createdDate": "2025-07-10"

}

]

## 3.3 Get Student by ID

**End point**

**GET /student/getStudentById/{id}**

**Description**

Fetches one student record by their ID.

**Path Parameters:**

| **Parameter** | **Type** | **Required** | **Description** |
| --- | --- | --- | --- |
| id | String | Yes | Unique student ID |

**Response Example:**

{

"id": "STU001",

"firstName": "Liya",

"lastName": "Santhosh",

"dob": "2002-08-15",

"status": "1",

"createdDate": "2025-07-10"

}

## 3.4 Delete Student

**Endpoint**

**DELETE /student/{id}**

**Description**

Deletes the student record by ID. The status of the student record will be set to ‘0’ instead of actually deleting the record from the database.

**Path Parameters:**

| **Parameter** | **Type** | **Required** | **Description** |
| --- | --- | --- | --- |
| id | String | Yes | Unique student ID |

**RESPONSE**

A generic response wrapper to standardize API responses — including **status**, **description/message**, and a **data** payload.

{

"**status**": "SUCCESS", // "SUCCESS" or "FAILED"

"**description**": "Fee collected successfully", // description of the status

"**data**": "the record that is affected by the api or the actual response" // Serialized data or a message (can also be changed to Object or generic T)

}

**Response example:**  
{

"status": "SUCCESS",

"description": "Student record deleted successfully",

"data": "

{

"id": "STU001",

"firstName": "Liya",

"lastName": "Santhosh",

"dob": "2002-08-15",

"status": "0",

"createdDate": "2025-07-10"

}"

}

{

"status": "FAILED",

"description": "Failed to delete student record",

"data": "

{

"id": "STU001",

"firstName": "Liya",

"lastName": "Santhosh",

"dob": "2002-08-15",

"status": "1",

"createdDate": "2025-07-10"

}"

}