

# Billing API Documentation

## Introduction

The Billing API allows payment gateway companies to check the payment status of an invoice, update the payment status from unpaid to paid, and retrieve all billing records. This API is designed for secure and efficient interaction with the billing system.

## Authentication

To access the Billing API, a JWT token is required. Users must log in to obtain a JWT token, which must be included in the “Authorization” header for all requests.

### Obtaining a JWT Token

1. **Endpoint:** /login
2. **Method:** POST
3. **Headers:**
  - Content-Type: application/json
4. **Body:**

```
"username" "admin"  
"password" "password"
```

5. **Response:**
  - 200 OK on success, with a JSON object containing the access\_token.
  - 401 Unauthorized if the username or password is incorrect.

## Endpoints

### Check Payment Status

Retrieve the payment status of a specific invoice.

- **URL:** /checkPaymentStatus
- **Method:** POST
- **Headers:**

- Authorization: Bearer <token>
- Content-Type: application/json
- **Body:**

```
"orderId" 4499494
"billingNumber" 333333
```

- **Response:**
  - 200 OK on success, with the billing details.
  - 400 Bad Request if required fields are missing.
  - 404 Not Found if the order ID or billing number is not found.
  - 500 Internal Server Error on server error.

## Update Payment Status

Update the payment status of an invoice from unpaid to paid.

- **URL:** /updatePaymentStatus
- **Method:** POST
- **Headers:**
  - Authorization: Bearer <token>
  - Content-Type: application/json
- **Body:**

```
"orderId" 4499494
"billingNumber" 333333
```

- **Response:**
  - 200 OK on success, with the updated billing details.
  - 400 Bad Request if required fields are missing or payment is already paid.
  - 404 Not Found if the order ID or billing number is not found.
  - 500 Internal Server Error on server error.

## Get All Billing Records

Retrieve all billing records.

- **URL:** /getAllBilling
- **Method:** GET

- **Headers:**
  - Authorization: Bearer <token>
- **Response:**
  - 200 OK on success, with a list of all billing records.
  - 500 Internal Server Error on server error.

## Examples

### Example 1: Checking Payment Status

1. Open Postman and create a new request.
2. Set the request method to POST.
3. Enter the request URL: `http://localhost:5000/checkPaymentStatus`
4. Add Headers:
  - Authorization: Bearer <token>
  - Content-Type: application/json
5. Add Body:

```
"orderId" 4499494
"billingNumber" 333333
```

6. Send the request.
7. View the response.

### Example 2: Updating Payment Status

1. Open Postman and create a new request.
2. Set the request method to POST.
3. Enter the request URL: <http://localhost:5000/updatePaymentStatus>
4. Add Headers:
  1. Authorization: Bearer <token>
  2. Content-Type: application/json

5. Add Body:

```
"orderId"    4499494
"billingNumber" 333333
```

6. Send the request.

7. View the response.

## Example 3: Retrieving All Billing Records

1. Open Postman and create a new request.
2. Set the request method to GET.
3. Enter the request URL: `http://localhost:5000/getAllBilling`
4. Add Headers:
  - Authorization: Bearer <token>
5. Send the request.
6. View the response.

## Logging

All requests and responses are logged in the logs table in the database. The log includes the endpoint, method, status code, request body, and response body.

## Viewing Logs

To view the logs, query the logs table in your MySQL database:

```
SELECT * FROM logs;
```

This will show you all the logs from all endpoints, including the request and response details.