**TENANT MANAGEMENT SYSTEM**

# A Test Endpoint

## Retrieve Hello World Message

* **Method**: GET
* **Endpoint**: /
* **Description**: Returns a simple "Hello World!" message.

Example Request

GET /

Example Response

HTTP/1.1 200 OK

Content-Type: text/plain

Hello World!

​

# Basic Bills Operations

## Retrieve All Bills

* **Method**: GET
* **Endpoint**: /bills
* **Description**: Retrieves all bills from the database.

Example Request

GET /bills

Example Response

HTTP/1.1 200 OK

Content-Type: application/json

[

  {

       "id": 1,

       "tenantId": 123,

       "monthlyFee": 100.00,

       "water": 20.00,

       "electricity": 30.00,

       "waste": 10.00,

       "dueDate": "2024-08-01T00:00:00Z",

       "isPaid": false

  },

  {

       "id": 2,

       "tenantId": 456,

       "monthlyFee": 150.00,

       "water": 25.00,

       "electricity": 35.00,

       "waste": 15.00,

       "dueDate": "2024-08-15T00:00:00Z",

       "isPaid": true

  }

]

​

## Create Bill

* **Method**: POST
* **Endpoint**: /bills
* **Description**: Creates a new bill.

Example Request

POST /bills

Content-Type: application/json

​

{

   "tenantId": 789,

   "monthlyFee": 120.00,

   "water": 22.00,

   "electricity": 32.00,

   "waste": 12.00,

   "dueDate": "2024-09-01T00:00:00Z",

   "isPaid": false

}

​

Example Response

HTTP/1.1 201 Created

Location: /bills/3

Content-Type: application/json

​

{

   "id": 3,

   "tenantId": 789,

   "monthlyFee": 120.00,

   "water": 22.00,

   "electricity": 32.00,

   "waste": 12.00,

   "dueDate": "2024-09-01T00:00:00Z",

   "isPaid": false

}

​

## Retrieve Bill by ID

* **Method**: GET
* **Endpoint**: /bills/{id}
* **Description**: Retrieves a specific bill by its ID.

Example Request

GET /bills/3

Example Response

HTTP/1.1 200 OK

Content-Type: application/json

​

{

   "id": 3,

   "tenantId": 789,

   "monthlyFee": 120.00,

   "water": 22.00,

   "electricity": 32.00,

   "waste": 12.00,

   "dueDate": "2024-09-01T00:00:00Z",

   "isPaid": false

}

​

## Update Bill

* **Method**: PUT
* **Endpoint**: /bills/{id}
* **Description**: Updates a specific bill by its ID.

Example Request

PUT /bills/3

Content-Type: application/json

​

{

   "tenantId": 789,

   "monthlyFee": 130.00,

   "water": 25.00,

   "electricity": 35.00,

   "waste": 15.00,

   "dueDate": "2024-09-01T00:00:00Z",

   "isPaid": false

}

​

Example Response

HTTP/1.1 204 No Content

## Delete Bill

* **Method**: DELETE
* **Endpoint**: /bills/{id}
* **Description**: Deletes a specific bill by its ID.

Example Request

DELETE /bills/3

Example Response

HTTP/1.1 200 OK

Content-Type: application/json

​

{

   "id": 3,

   "tenantId": 789,

   "monthlyFee": 130.00,

   "water": 25.00,

   "electricity": 35.00,

   "waste": 15.00,

   "dueDate": "2024-09-01T00:00:00Z",

   "isPaid": false

}

​

## Pay Bill

* **Method**: POST
* **Endpoint**: /bills/{id}/pay
* **Description**: Marks a bill as paid.

Example Request

POST /bills/3/pay

Content-Type: application/json

​

{

   "isPaid": true

}

​

Example Response

HTTP/1.1 200 OK

Content-Type: application/json

​

{

   "id": 3,

   "tenantId": 789,

   "monthlyFee": 130.00,

   "water": 25.00,

   "electricity": 35.00,

   "waste": 15.00,

   "dueDate": "2024-09-01T00:00:00Z",

   "isPaid": true

}

​

# Bill Payment Info:

## Get Unpaid Bills by Tenant

* **Method**: GET
* **Endpoint**: /tenants/{tenantId}/bills/unpaid
* **Description**: Retrieves all unpaid bills for a specific tenant.

Example Request

GET /tenants/789/bills/unpaid

Example Response

HTTP/1.1 200 OK

Content-Type: application/json

​

[

  {

       "id": 1,

       "tenantId": 789,

       "monthlyFee": 100.00,

       "water": 20.00,

       "electricity": 30.00,

       "waste": 10.00,

       "dueDate": "2024-08-01T00:00:00Z",

       "isPaid": false

  },

  {

       "id": 2,

       "tenantId": 789,

       "monthlyFee": 120.00,

       "water": 22.00,

       "electricity": 32.00,

       "waste": 12.00,

       "dueDate": "2024-09-01T00:00:00Z",

       "isPaid": false

  }

]

​

## Get Overdue Bills

* **Method**: GET
* **Endpoint**: /bills/overdue
* **Description**: Retrieves all overdue bills.

Example Request

GET /bills/overdue

Example Response

HTTP/1.1 200 OK

Content-Type: application/json

​

[

  {

       "id": 1,

       "tenantId": 123,

       "monthlyFee": 100.00,

       "water": 20.00,

       "electricity": 30.00,

       "waste": 10.00,

       "dueDate": "2024-08-01T00:00:00Z",

       "isPaid": false

  },

  {

       "id": 3,

       "tenantId": 456,

       "monthlyFee": 150.00,

       "water": 25.00,

       "electricity": 35.00,

       "waste": 15.00,

       "dueDate": "2024-08-15T00:00:00Z",

       "isPaid": false

  }

]

​

## Get Total Due Amount for Tenant

* **Method**: GET
* **Endpoint**: /tenants/{tenantId}/bills/totaldue
* **Description**: Calculates and retrieves the total amount due for a specific tenant.

Example Request

GET /tenants/789/bills/totaldue

Example Response

​

HTTP/1.1 200 OK

Content-Type: application/json

​

{

   "totalDue": 253.00

}

​

​

# Tenants Info :

## Get Bills by Tenant

* **Method**: GET
* **Endpoint**: /tenants/{tenantId}/bills
* **Description**: Retrieves bills associated with a specific tenant.

Example Request

GET /tenants/789/bills

Example Response

HTTP/1.1 200 OK

Content-Type: application/json

​

[

  {

       "id": 1,

       "tenantId": 789,

       "monthlyFee": 100.00,

       "water": 20.00,

       "electricity": 30.00,

       "waste": 10.00,

       "dueDate": "2024-08-01T00:00:00Z",

       "isPaid": false

  },

  {

       "id": 2,

       "tenantId": 789,

       "monthlyFee": 120.00,

       "water": 22.00,

       "electricity": 32.00,

       "waste": 12.00,

       "dueDate": "2024-09-01T00:00:00Z",

       "isPaid": false

  }

]

## Retrieve All Tenants

* **Method**: GET
* **Endpoint**: /tenants
* **Description**: Retrieves all tenants from the database.

Example Request

GET /tenants

Example Response

HTTP/1.1 200 OK

Content-Type: application/json

​

[

  {

       "id": 789,

       "name": "John Doe",

       "email": "john.doe@example.com",

       "phone": "+1234567890"

  },

  {

       "id": 456,

       "name": "Jane Smith",

       "email": "jane.smith@example.com",

       "phone": "+1987654321"

  }

]

## ​Retrieve Tenant by ID

* **Method**: GET
* **Endpoint**: /tenants/{id}
* **Description**: Retrieves a specific tenant by their ID.

Example Request

GET /tenants/789

Example Response

HTTP/1.1 200 OK

Content-Type: application/json

​

{

   "id": 789,

   "name": "John Doe",

   "email": "john.doe@example.com",

   "phone": "+1234567890"

}

​

​

# Tenants Management:

## Create Tenant

* **Method**: POST
* **Endpoint**: /tenants
* **Description**: Adds a new tenant to the database.

Example Request

POST /tenants

Content-Type: application/json

​

{

   "name": "Alice Brown",

   "email": "alice.brown@example.com",

   "phone": "+1122334455"

}

​

Example Response

HTTP/1.1 201 Created

Location: /tenants/987

Content-Type: application/json

​

{

   "id": 987,

   "name": "Alice Brown",

   "email": "alice.brown@example.com",

   "phone": "+1122334455"

}

​

​

## Update Tenant

* **Method**: PUT
* **Endpoint**: /tenants/{id}
* **Description**: Updates a specific tenant by their ID.

Example Request

PUT /tenants/987

Content-Type: application/json

​

{

   "name": "Alice Brown",

   "email": "alice.brown@example.com",

   "phone": "+1122334455"

}

​Example Response

HTTP/1.1 204 No Content\

## Delete Tenant

* **Method**: DELETE
* **Endpoint**: /tenants/{id}
* **Description**: Deletes a specific tenant by their ID.

Example Request

DELETE /tenants/987

Example Response

​ ​

HTTP/1.1 200 OK

Content-Type: application/json

​

{

   "id": 987,

   "name": "Alice Brown",

   "email": "alice.brown@example.com",

   "phone": "+1122334455"

}

​