

API Documentation

API Documentation link - <https://documenter.getpostman.com/view/40244982/2sAYHwKkD3>

Introduction

This document provides a comprehensive overview of the available APIs for the system. Each endpoint is described with its HTTP method, request parameters, and example responses.

Base URL

`http://localhost:8080/api`

Endpoints

1. Start the System

- **Endpoint:** /start
- **Method:** POST
- **Description:** Initiates the system.

Example Request:

```
curl --location --request POST 'http://localhost:8080/api/start'
```

Response:

- **204 No Content:** No body.

2. Stop the System

- **Endpoint:** /stop
- **Method:** POST
- **Description:** Stops the system.

Example Request:

```
curl --location --request POST 'http://localhost:8080/api/stop'
```

Response:

- **204 No Content:** No body.

Base URL

`http://localhost:8080/api`

1. Return Configuration

- **Endpoint:** `/admin/getConfig`
- **Method:** GET
- **Description:** Retrieves the current system configuration.

Example Request:

```
curl --location --request GET 'http://localhost:8080/admin/getConfig' \
--data '{
  "totalTickets": 5,
  "ticketReleaseRate": 3,
  "customerRetrievalRate": 5,
  "maxTicketCapacity": 10,
  "noOfVendors": 3,
  "noOfCustomers": 5
}'
```

Example Response:

```
{
  "totalTickets": 5,
  "ticketReleaseRate": 3,
  "customerRetrievalRate": 5,
  "maxTicketCapacity": 10,
  "noOfVendors": 3,
  "noOfCustomers": 5
}
```

Error Codes

- **400:** Bad Request - The request contains invalid data.
- **401:** Unauthorized - Authentication is required or has failed.
- **404:** Not Found - The requested resource does not exist.
- **500:** Internal Server Error - An unexpected error occurred.

4. Setup Configuration

- **Endpoint:** `/admin`
- **Method:** POST

- **Description:** Configures the system settings.

Request Body:

```
{
  "totalTickets": 5,
  "ticketReleaseRate": 3,
  "customerRetrievalRate": 5,
  "maxTicketCapacity": 10,
  "noOfVendors": 3,
  "noOfCustomers": 5
}
```

Example Request:

```
curl --location --request POST 'http://localhost:8080/api/admin' \
--header 'Content-Type: application/json' \
--data '{
  "totalTickets": 5,
  "ticketReleaseRate": 3,
  "customerRetrievalRate": 5,
  "maxTicketCapacity": 10,
  "noOfVendors": 3,
  "noOfCustomers": 5
}'
```

Response:

- **200 OK:** Configuration updated successfully.

Example Response:

```
{
  "message": "Configuration updated successfully."
}
```

Error Codes

- **400:** Bad Request - The request contains invalid data.
- **401:** Unauthorized - Authentication is required or has failed.
- **404:** Not Found - The requested resource does not exist.
- **500:** Internal Server Error - An unexpected error occurred.