**Generate token API:**

The Generate token API provides endpoints for generating access and refresh tokens for vendors to authenticate and access other APIs.

**API Endpoints**

* POST: /api/generate\_token/

Description: Generate access and refresh tokens for a vendor.

Request Type: POST

Request Body: JSON data containing vendor code (vendor\_code) and password (password).

{

    "username": "string(50)",

    "password": "string(8)"

}

Response:

400 Bad Request: Invalid vendor code or password.

200 OK: Tokens generated successfully.

{

    "refresh": "string",

    "access": "string"

}

* POST /api/token/refresh/

Description: Refresh the access token.

Request Type: POST

Request Body: JSON data containing the refresh token (refresh).

{

    "refresh": "string",

}

Response:

401 Unauthorized: Token is invalid or expired.

200 OK: New access token generated successfully.

{

    "access": "string",

}

**Vendor Profile API:**

The Vendor Profile API provides endpoints for managing vendor profiles, including creating new vendor profiles and retrieving a list of existing vendor profiles.

**API Endpoints**

* GET /api/vendors/

Description: Retrieve a list of all vendor profiles.

Request Type: GET

Response:

204 No Content: No vendor profiles are available in the system.

500 Internal Server Error: An unexpected error occurred.

401 Unauthorized: Token is invalid or expired.

200 OK: List of vendor profiles in the system.

[

    {

        "vendor\_code": "string(50)",

        "name": "string(255)",

        "contact\_details": "text",

        "address": "text",

}

]

* POST /api/vendors/

Description: Create a new vendor profile.

Request Type: POST

Request Body: JSON data containing vendor details.

name (required): Name of the vendor.

contact\_details (required): Contact details of the vendor.

address (required): Address of the vendor.

vendor\_code : vendor\_code to uniquely identify the vendor (optional)

{

    "vendor\_code": "string(50)optional",

    "name": "string(255)",

    "address": "text",

    "contact\_details": "text"

}

Notes: The vendor\_code for each vendor profile is automatically generated by the system if not given in the input.

Response:

400 Bad Request: Invalid data provided in the request.

500 Internal Server Error: An unexpected error occurred.

401 Unauthorized: Token is invalid or expired.

200 OK: Vendor profile created successfully.

{

    "vendor\_code": "string(50)",

    "name": "string(255)",

    "address": "text",

"contact\_details": "text",

"username": "string(50)",

"password": "string(8)"

}

**Vendor Profile Management API :**

The Vendor Profile Management API provides endpoints for managing individual vendor profiles, including retrieving, updating, and deleting vendor profiles.

**API Endpoints**

* GET /api/vendors/<vendor\_code>/

Description: Retrieve details of a specific vendor profile.

Request Type: GET

Parameters:

vendor\_code (required): Unique identifier for the vendor profile.

Response:

404 Not Found: Vendor profile with the specified ID does not exist.

500 Internal Server Error: An unexpected error occurred.

401 Unauthorized: Token is invalid or expired.

200 OK: Details of the specified vendor profile.

{

    "vendor\_code": "string(50)",

    "name": "string(255)",

    "contact\_details": "text",

    "address": "text",

}

* PUT /api/vendors/<vendor\_code>/

Description: Update details of a specific vendor profile.

Request Type: PUT

Parameters:

vendor\_code (required): Unique identifier for the vendor profile.

Request Body: JSON data containing updated vendor details.

{

    "name": "string(255)",

    "address": "text",

    "contact\_details": "text"

}

Response:

400 Bad Request: Invalid data provided in the request.

404 Not Found: Vendor profile with the specified ID does not exist.

500 Internal Server Error: An unexpected error occurred.

401 Unauthorized: Token is invalid or expired.

200 OK: Vendor profile updated successfully.

Note:

vendor\_code cannot be updated.

* DELETE /api/vendors/<vendor\_code>/

Description: Delete a specific vendor profile.

Request Type: DELETE

Parameters:

vendor\_code (required): Unique identifier for the vendor profile.

Response:

404 Not Found: Vendor profile with the specified ID does not exist.

500 Internal Server Error: An unexpected error occurred.

200 OK: Vendor profile deleted successfully.

**Purchase Order Tracking API:**

The Purchase Order Tracking API provides endpoints for managing purchase orders, including creating new purchase orders and retrieving a list of existing purchase orders.

**API Endpoints**

* GET /api/purchase\_orders/

Description: Retrieve a list of all purchase orders.

Request Type: GET

Response:

204 No Content: No purchase orders are available in the system.

500 Internal Server Error: An unexpected error occurred.

401 Unauthorized: Token is invalid or expired.

200 OK: List of purchase orders in the system.

[

{

    "id": "integer",

    "po\_number": "string(50)",

    "order\_date": "datetime",

    "delivery\_date": "datetime",

    "items": "json",

    "quantity": "integer",

    "status": "string(50)",

    "quality\_rating": "float",

    "issue\_date": "datetime",

    "acknowledgment\_date": "datetime",

    "updated\_on": "datetime",

    "vendor": "string(50)"

}

]

* POST /api/purchase\_orders/

Description: Create a new purchase order.

Request Type: POST

Request Body: JSON data containing purchase order details.

{

    "vendor": "string(50)",

    "order\_date": "string (datetime)",

    "issue\_date": "string (datetime)",

    "items": "json",

    "quantity": "integer",

    "delivery\_date": "string (datetime)",

    "status": "string",

}

Response:

400 Bad Request: Invalid data provided in the request.

500 Internal Server Error: An unexpected error occurred.

401 Unauthorized: Token is invalid or expired.

200 OK: Purchase order created successfully.

{

    "id": "integer",

    "po\_number": "string(50)",

    "order\_date": "string (datetime)",

    "delivery\_date": "string (datetime)",

    "items": "json",

    "quantity": "integer",

    "status": "string(50)",

    "quality\_rating": "float",

    "issue\_date": "string (datetime)",

    "acknowledgment\_date": "string (datetime)",

    "updated\_on": "string (datetime)",

    "vendor": "string(50)"

}

Notes: The po\_number for each purchase order is automatically generated in the backend.

**Purchase Order Management API:**

The Purchase Order Management API provides endpoints for managing purchase orders, including retrieval, update, and deletion.

**API Endpoints**

* GET /api/purchase\_orders/{po\_number}

Description: Retrieve details of a specific purchase order.

Request Type: GET

Parameters:

po\_number: The unique purchase order number.

Response:

404 Not Found: Purchase order with the specified PO number does not exist.

401 Unauthorized: Token is invalid or expired.

200 OK: Details of the purchase order.

{

    "id": "integer",

    "po\_number": "string(50)",

    "order\_date": "datetime",

    "delivery\_date": "datetime",

    "items": "json",

    "quantity": "integer",

    "status": "Pending",

    "quality\_rating": "integer",

    "issue\_date": "datetime",

    "acknowledgment\_date": "datetime",

    "po\_deliverd\_date": "datetime",

    "vendor": "string(50)"

}

* PUT /api/purchase\_orders/{po\_number}

Description: Update details of a specific purchase order.

Request Type: PUT

Parameters:

po\_number: The unique purchase order number.

Request Body: JSON data containing the fields to be updated.

{

    "vendor": "string(50)",

    "order\_date": "datetime",

    "issue\_date": "datetime",

    "items": "json",

    "quantity": "integer",

    "delivery\_date": "datetime",

    "status": "string"

}

Response:

400 Bad Request: Invalid request or missing required fields.

401 Unauthorized: Token is invalid or expired.

200 OK: Purchase order updated successfully.

* DELETE /api/purchase\_orders/{po\_number}

Description: Delete a specific purchase order.

Request Type: DELETE

Parameters:

po\_number: The unique purchase order number.

Response:

404 Not Found: Purchase order with the specified PO number does not exist.

401 Unauthorized: Token is invalid or expired.

200 OK: Purchase order deleted successfully.

**Acknowledge Purchase Order API:**

The Acknowledge Purchase Order API endpoint allows vendors to acknowledge receipt of a specific purchase order.

**API Endpoint**

* POST /api/purchase\_orders/{po\_number}/acknowledge

Description: Acknowledge receipt of a specific purchase order.

Request Type: POST

Parameters:

po\_number: The unique purchase order number.

Response:

404 Not Found: Purchase order with the specified PO number does not exist.

401 Unauthorized: Token is invalid or expired.

200 OK: Purchase order acknowledged successfully.

**Vendor Performance Metrics API**

The Vendor Performance Metrics API endpoint allows users to retrieve performance metrics for a specific vendor.

**API Endpoint**

* GET /api/vendors/{vendor\_code}/performance

Description: Retrieve performance metrics for a specific vendor.

Request Type: GET

Parameters:

vendor\_code: The unique vendor code.

Response:

404 Not Found: Vendor performance metrics with the specified vendor code do not exist.

401 Unauthorized: Token is invalid or expired.

200 OK: Vendor performance metrics retrieved successfully.

{

    "id": "integer",

    "vendor\_code": "string",

    "name": "string",

    "contact\_details": "text",

    "address": "text",

    "on\_time\_delivery\_rate": "datetime",

    "quality\_rating\_avg": "datetime",

    "average\_response\_time": "datetime",

    "fulfillment\_rate": "datetime"

}