

Retail Store POS App Backend Api's Documentation

Retail Store POS API Documentation

Base URL

http://localhost:5000/RetailStorePOSAApp/v1

Welcome Message

GET /

- **Description:** Returns a welcome message for the Retail POS System.
- **Response:**

json

Copy code

```
{  
  "message": "Welcome to the Retail POS System"  
}
```

Customers

Base URL: /RetailStorePOSAAppAPI/v1/customers

GET /

- **Description:** Retrieve a list of all customers.
- **Response:**

json

Copy code

```
[  
  {  
    "id": "string",  
    "name": "string",  
    "email": "string",  
    "phone": "string"  
  }  
]
```

POST /

- **Description:** Create a new customer.
- **Request Body:**

json

Copy code

```
{  
  "name": "string",  
  "email": "string",  
  "phone": "string"  
}
```

- **Response:**

json

Copy code

```
{  
  "id": "string",  
  "name": "string",  
  "email": "string",  
  "phone": "string"  
}
```

GET /{id}

- **Description:** Retrieve a specific customer by ID.
- **Response:**

json

Copy code

```
{  
  "id": "string",  
  "name": "string",  
  "email": "string",  
  "phone": "string"
```

```
}
```

PUT /{id}

- **Description:** Update an existing customer by ID.

- **Request Body:**

json

Copy code

```
{  
  "name": "string",  
  "email": "string",  
  "phone": "string"
```

}//// You can also change any specific field of the customer like

```
{  
  "name": "string"
```

}//// the response will be same whether u update one or all fields

- **Response:**

json

Copy code

```
{  
  "id": "string",  
  "name": "string",  
  "email": "string",  
  "phone": "string"  
}
```

DELETE /{id}

- **Description:** Delete a specific customer by ID.

- **Response:**

json

Copy code

```
{
```

```
"message": "Customer deleted successfully"
}
```

Products

Base URL: /RetailStorePOSAppAPI/v1/products

GET /

- **Description:** Retrieve a list of all products.
- **Response:**

json

Copy code

```
[
  {
    "id": "string",
    "name": "string",
    "price": "number",
    "stock": "number",
    "description": "string",
    "category_id": "string",
    "image_path": "string"
  }
]
```

POST /

- **Description:** Create a new product.
- **Request Body:**

json

Copy code

```
{
  "name": "string",
  "price": "number",
  "stock": "number",
```

```
"description": "string",  
"category_name": "string",  
"image_path": "string"
```

}////in postman create using the form instead of raw

- **Response:**

json

Copy code

```
{  
  "id": "string",  
  "name": "string",  
  "price": "number",  
  "stock": "number",  
  "description": "string",  
  "category_id": "string",  
  "image_path": "string"  
}
```

GET /{id}

- **Description:** Retrieve a specific product by ID.

- **Response:**

json

Copy code

```
{  
  "id": "string",  
  "name": "string",  
  "price": "number",  
  "stock": "number",  
  "description": "string",  
  "category_id": "string",  
  "image_path": "string"
```

```
}
```

PUT /{id}

- **Description:** Update an existing product by ID.

- **Request Body:**

json

Copy code

```
{  
  "name": "string",  
  "price": "number",  
  "stock": "number",  
  "description": "string",  
  "category_id": "string",  
  "image_path": "string"  
}
```

- **Response:**

json

Copy code

```
{  
  "id": "string",  
  "name": "string",  
  "price": "number",  
  "stock": "number",  
  "description": "string",  
  "category_id": "string",  
  "image_path": "string"  
}
```

DELETE /{id}

- **Description:** Delete a specific product by ID.

- **Response:**

json

Copy code

```
{  
  "message": "Product deleted successfully"  
}
```

Transactions

Base URL: /RetailStorePOSAppAPI/v1/transactions

GET /

- **Description:** Retrieve a list of all transactions.
- **Response:**

json

Copy code

```
[  
  {  
    "id": "string",  
    "date": "string",  
    "customer_id": "string",  
    "total_amount": "number",  
    "payment_method": "string",  
    "items": [  
      {  
        "product_id": "string",  
        "quantity": "number",  
        "price": "number"  
      }  
    ]  
  }  
]
```

POST /

- **Description:** Create a new transaction.

- **Request Body:**

json

Copy code

```
{
  "customer_id": "string",
  "total_amount": "number",
  "payment_method": "string",
  "items": [
    {
      "product_id": "string",
      "quantity": "number",
      "price": "number"
    }
  ]
}
```

- **Response:**

json

Copy code

```
{
  "id": "string",
  "date": "string",
  "customer_id": "string",
  "total_amount": "number",
  "payment_method": "string",
  "items": [
    {
      "product_id": "string",
      "quantity": "number",
```



```
      "price": "number"
    }
  ]
}
```

GET /{id}

- **Description:** Retrieve a specific transaction by ID.
- **Response:**

json

Copy code

```
{
  "id": "string",
  "date": "string",
  "customer_id": "string",
  "total_amount": "number",
  "payment_method": "string",
  "items": [
    {
      "product_id": "string",
      "quantity": "number",
      "price": "number"
    }
  ]
}
```

DELETE /{id}

- **Description:** Delete a specific transaction by ID.
- **Response:**

json

Copy code

```
{
```

```
"message": "Transaction deleted successfully"
}
```

Users

Base URL: /RetailStorePOSAppAPI/v1/users

GET /

- **Description:** Retrieve a list of all users.
- **Response:**

json

Copy code

```
[
  {
    "id": "string",
    "username": "string",
    "email": "string",
    "role": "string"
  }
]
```

POST /

- **Description:** Create a new user.
- **Request Body:**

json

Copy code

```
{
  "username": "string",
  "email": "string",
  "password": "string",
  "role": "string"
}
```

- **Response:**

json

Copy code

```
{
  "id": "string",
  "username": "string",
  "email": "string",
  "role": "string"
}
```

GET /{id}

- **Description:** Retrieve a specific user by ID.
- **Response:**

json

Copy code

```
{
  "id": "string",
  "username": "string",
  "email": "string",
  "role": "string"
}
```

PUT /{id}

- **Description:** Update an existing user by ID.
- **Request Body:**

json

Copy code

```
{
  "username": "string",
  "email": "string",
  "password": "string",
  "role": "string"
}
```

```
}
```

- **Response:**

json

Copy code

```
{  
  "id": "string",  
  "username": "string",  
  "email": "string",  
  "role": "string"  
}
```

DELETE /{id}

- **Description:** Delete a specific user by ID.

- **Response:**

json

Copy code

```
{  
  "message": "User deleted successfully"  
}
```

Authentication

Base URL: /RetailStorePOSAppAPI/v1/auth

POST /login

- **Description:** Authenticate a user and provide a token.

- **Request Body:**

json

Copy code

```
{  
  "email": "string",  
  "password": "string"  
}
```

- **Response:**

json

Copy code

```
{  
  "token": "string"  
}
```

POST /register

- **Description:** Register a new user.

- **Request Body:**

json

Copy code

```
{  
  "username": "string",  
  "email": "string",  
  "password": "string",  
  "role": "string"  
}
```

- **Response:**

json

Copy code

```
{  
  "id": "string",  
  "username": "string",  
  "email": "string",  
  "role": "string"  
}
```

Categories

Base URL: /RetailStorePOSAppAPI/v1/categories

GET /

- **Description:** Retrieve a list of all categories.

- **Response:**

json

Copy code

```
[  
  {  
    "id": "string",  
    "name": "string"  
  }  
]
```

POST /

- **Description:** Create a new category.

- **Request Body:**

json

Copy code

```
{  
  "name": "string"  
}
```

- **Response:**

json

Copy code

```
{  
  "id": "string",  
  "name": "string"  
}
```

GET /{id}

- **Description:** Retrieve a specific category by ID.

- **Response:**

json

Copy code

```
{  
  "id": "string",  
  "name": "string"  
}
```

PUT /{id}

- **Description:** Update an existing category by ID.
- **Request Body:**

json

Copy code

```
{  
  "name": "string"  
}
```

- **Response:**

json

Copy code

```
{  
  "id": "string",  
  "name": "string"  
}
```

DELETE /{id}

- **Description:** Delete a specific category by ID.
- **Response:**

json

Copy code

```
{  
  "message": "Category deleted successfully"  
}
```

Uploads

Base URL: /uploads

GET /

- **Description:** Serve static files (images, documents, etc.) uploaded to the uploads directory.
- **Response:** The file requested is served directly from the server.

Endpoint: GET /transactions/invoice/:id

Path Parameters:

- **id:** The ID of the transaction for which to generate an invoice.

Response:

- **200 OK:** Invoice successfully generated, returns the file path to the generated PDF.
- **404 Not Found:** If the transaction is not found.
- **500 Internal Server Error:** If there is an error generating the invoice.

Example Request:

bash

Copy code

Endpoint: GET /transactions/weekly/:year/:month/:week

Path Parameters:

- **year :** The year you want the data for
- **month :** The month you want the data for
- **week :** The week you want the data for

Response:

- **200 OK:** weekly report successfully generated,.

```
{
  "year": 2024,
  "week": 4,
  "startDate": "2024-08-22",
  "endDate": "2024-08-28",
  "dailyData": [
    {
      "day": "Thursday",
      "date": "2024-08-22",
      "transactions": 4,
      "totalSales": "163900.00"
    },
  ],
}
```



```

•         "day": "Friday",
•         "date": "2024-08-23",
•         "transactions": 9,
•         "totalSales": "1659000.00"
•     },
•     {
•         "day": "Saturday",
•         "date": "2024-08-24",
•         "transactions": 9,
•         "totalSales": "831000.00"
•     },
•     {
•         "day": "Sunday",
•         "date": "2024-08-25",
•         "transactions": 10,
•         "totalSales": "1670300.00"
•     },
•     {
•         "day": "Monday",
•         "date": "2024-08-26",
•         "transactions": 7,
•         "totalSales": "1485100.00"
•     },
•     {
•         "day": "Tuesday",
•         "date": "2024-08-27",
•         "transactions": 5,
•         "totalSales": "1378000.00"
•     },
•     {
•         "day": "Wednesday",
•         "date": "2024-08-28",
•         "transactions": 0,
•         "totalSales": "0.00"
•     }
• ]
• }

```

- **500 Internal Server Error:** If there is an error generating the invoice.

Example Request:

bash

Copy code

Endpoint: POST /auth/request-password-reset

Description: Api to call when we forget password this generates a reset token for the provided email id

- **Request Body:**

```
json
Copy code
{
  "email": "emailyouwanttoresetpasswordfor"
}
```

- **Response:**

```
json
Copy code
{
  "token": " 91d6cc9b59da32678b20e655e0832424b1be155528e9bfb5d264cae3d2d6fe2a"
}
```

Endpoint: POST /auth/reset-password

Description: This Api takes token generated from the previous request-reset-password api the new password and replaces it with the new password provided along with the token

- **Request Body:**

```
json
Copy code
{
  "token": "91d6cc9b59da32678b20e655e0832424b1be155528e9bfb5d264cae3d2d6fe2a",
  "new_password": "adsnaaffa"
}
```

- **Response:**

```
json
Copy code
{
  "message": "Password reset Successfully"
}
```

