# Simple API Documentation - Inventory & Billing System

# **Base Configuration**

- Base URL: (http://localhost:4000)
- Authentication: JWT Token required for all routes except login/register
- Content-Type: (application/json)

### 1. Authentication Routes

### **Register New User**

**POST** (/auth/register)

### **Request:**

```
json
{
    "username": "testuser",
    "email": "test@test.com",
    "password": "test123",
    "businessName": "Test Business"
}
```

#### Response (201):

### Login

POST (/auth/login)

#### **Request:**

```
json
```

```
"username": "testuser",
"password": "test123"
}
```

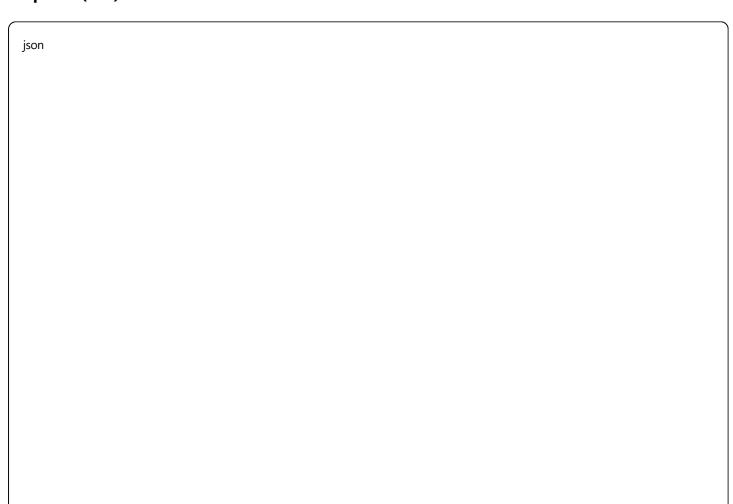
## Response (200):

```
ison
{
    "success": true,
    "message": "Login successful",
    "token": "eyJhbGciOiJIUzl1NilsInR5cCl6lkpXVCJ9...",
    "businessName": "Test Business"
}
```

### 2. Product Routes

#### **Get All Products**

**GET** /products



```
"success": true,
"count": 3,
"products": [
    "_id": "676f5dc6ac00c858cfbb8e90",
    "name": "Laptop",
    "description": "High-performance laptop",
    "price": 50000,
    "stock": 10,
    "category": "Electronics"
},
{
    "_id": "676f5e65ac00c858cfbb8e93",
    "name": "Wireless Mouse",
    "description": "Ergonomic wireless mouse",
    "price": 1500,
    "stock": 50,
    "category": "Accessories"
}
```

#### **Create Product**

POST /products

#### **Request:**

```
json

{
    "name": "Laptop",
    "description": "High-performance laptop",
    "price": 50000,
    "stock": 10,
    "category": "Electronics"
}
```

```
json
```

```
"success": true,
"message": "Product created successfully",
"product": {
   "_id": "676f5dc6ac00c858cfbb8e90",
   "name": "Laptop",
   "description": "High-performance laptop",
   "price": 50000,
   "stock": 10,
   "category": "Electronics",
   "businessId": "676f5d33ac00c858cfbb8e8d"
}
```

### **Update Product Stock**

**PUT** (/products/:id/stock)

#### **Request (Increase Stock):**

```
json
{
  "action": "increase",
  "quantity": 5
}
```

### Response (200):

#### **Request (Decrease Stock):**

```
json
{
  "action": "decrease",
  "quantity": 3
}
```

#### 3. Contact Routes

#### **Get All Contacts**

**GET** /contacts

**Query Parameters:** (?type=customer) or (?type=vendor)

```
json
 "success": true,
 "count": 2,
 "contacts": [
   "_id": "676f5ee5ac00c858cfbb8e96",
   "name": "John Doe",
   "phone": "1234567890",
   "email": "john@customer.com",
   "address": "123 Main St",
   "type": "customer"
   "_id": "676f5f1aac00c858cfbb8e99",
   "name": "ABC Suppliers",
   "phone": "9876543210",
   "email": "contact@abcsuppliers.com",
   "address": "456 Business Ave",
   "type": "vendor"
```

#### **Create Contact**

POST (/contacts)

### Request (Customer):

```
ison
{
    "name": "John Doe",
    "phone": "1234567890",
    "email": "john@customer.com",
    "address": "123 Main St",
    "type": "customer"
}
```

### Request (Vendor):

```
"name": "ABC Suppliers",
    "phone": "9876543210",
    "email": "contact@abcsuppliers.com",
    "address": "456 Business Ave",
    "type": "vendor"
}
```

```
ison

{
    "success": true,
    "message": "Contact created successfully",
    "contact": {
        "_id": "676f5ee5ac00c858cfbb8e96",
        "name": "John Doe",
        "type": "customer"
    }
}
```

### 4. Transaction Routes

#### **Get All Transactions**

```
GET (/transactions)
```

**Query Parameters:** (?type=sale) or (?type=purchase)

### Response (200):

```
| "success": true,
| "count": 2,
| "transactions": [
| {
| "_id": "676f5fc9ac00c858cfbb8e9e",
| "type": "sale",
| "customerld": "676f5ee5ac00c858cfbb8e96",
| "products": [
| {
| "product!d": "676f5dc6ac00c858cfbb8e90",
| "quantity": 2,
| "price": 50000
| }
| ],
| "totalAmount": 100000,
| "date": "2024-12-28T00:03:53.470Z"
| }
| ]
```

### **Create Sale Transaction**

POST (/transactions)

### **Request:**

json

```
{
  "type": "sale",
  "customerld": "676f5ee5ac00c858cfbb8e96",
  "products": [
    {
        "productId": "676f5dc6ac00c858cfbb8e90",
        "quantity": 2,
        "price": 50000
    }
  ]
}
```

### Response (201):

Note: Stock is automatically decreased by 2 units

#### **Create Purchase Transaction**

**POST** /transactions

#### **Request:**

json

```
{
  "type": "purchase",
  "vendorld": "676f5f1aac00c858cfbb8e99",
  "products": [
    {
        "productId": "676f5e65ac00c858cfbb8e93",
        "quantity": 10,
        "price": 1000
    }
  ]
}
```

### Response (201):

Note: Stock is automatically increased by 10 units

## 5. Report Routes

### **Inventory Report**

**GET** (/reports/inventory)

```
json
 "success": true,
 "data": [
   "_id": "676f5dc6ac00c858cfbb8e90",
   "name": "Laptop",
   "category": "Electronics",
   "stock": 6,
   "price": 50000
   "_id": "676f5e65ac00c858cfbb8e93",
   "name": "Wireless Mouse",
   "category": "Accessories",
   "stock": 60,
   "price": 1500
 "totalProducts": 3,
 "lowStockCount": 1,
 "lowStockItems": [
   "_id": "676f5dc6ac00c858cfbb8e90",
   "name": "Laptop",
   "stock": 6,
   "category": "Electronics"
```

## **Transaction Report**

**GET** (reports/transactions)

```
json
```

```
"success": true,
"data": [
  "_id": "676f5fc9ac00c858cfbb8e9e",
  "type": "sale",
  "customerld": {
   "_id": "676f5ee5ac00c858cfbb8e96",
   "name": "John Doe"
  },
  "products": [
    "productId": {
      "_id": "676f5dc6ac00c858cfbb8e90",
     "name": "Laptop"
     "quantity": 2,
     "price": 50000
  "totalAmount": 100000.
  "date": "2024-12-28T00:03:53.470Z"
],
"summary": {
 "totalTransactions": 2,
 "totalSales": 103000,
 "totalPurchases": 10000,
 "totalAmount": 113000
```

## **Common Error Responses**

## **Authentication Error (401)**

```
json
{
    "error": true,
    "message": "Token required"
}
```