

# DOiT E-commerce API - Complete Documentation

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Complete API documentation for the DOiT E-commerce platform. This document covers all public and admin endpoints with detailed request/response examples.

**Base URL:** `https://api.doit.com/api` (or `http://localhost:4000/api` for development)

**Date Format:** All dates are in ISO 8601 format (e.g., `2025-01-30T10:00:00Z`)

**Currency:** All monetary values are in EGP (Egyptian Pounds)

**Language Support:** Bilingual (English/Arabic) - most content has both `nameEn` and `nameAr` fields

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## Authentication

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# Customer Authentication (OTP-based)

## Send OTP

**Endpoint:** POST /auth/customer/send-otp

**Public:** Yes

**Description:** Sends a 6-digit OTP code to the customer's email. Creates customer account if doesn't exist.

### Request Body:

```
{  
  "email": "customer@example.com"  
}
```

### Response:

```
{  
  "message": "OTP code sent successfully to your email"  
}
```

### Notes:

- In development, OTP is logged to console
- OTP expires in 10 minutes (configurable)
- Auto-creates customer account on first sign-in

## Verify OTP

**Endpoint:** POST /auth/customer/verify-otp

**Public:** Yes

**Description:** Verifies OTP code and returns JWT access token.

### Request Body:

```
{  
  "email": "customer@example.com",  
  "code": "123456"  
}
```

### Success Response:

```
{  
  "accessToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",  
  "user": {  
    "id": "cm5abc123",  
    "name": "Customer Name",  
    "email": "customer@example.com",  
    "role": "Customer"  
  }  
}
```

```
"email": "customer@example.com",
"fullName": "John Doe",
"role": "customer"
}
}
```

## Error Responses:

```
{
  "statusCode": 401,
  "message": "Invalid or expired OTP code"
}
```

## Admin Authentication (JWT-based)

### Admin Login

**Endpoint:** POST /auth/admin/login

**Public:** Yes

**Description:** Admin login using adminId and password.

#### Request Body:

```
{
  "adminId": "admin001",
  "password": "Change@123"
}
```

### Success Response:

```
{
  "accessToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",
  "user": {
    "id": "cm5xyz789",
    "email": "admin@doit.com",
    "role": "admin"
  }
}
```

## Admin Reset Password Request

**Endpoint:** POST /auth/admin/reset-request

**Public:** Yes

**Description:** Sends password reset code to admin email.

#### Request Body:

```
{  
    "adminCode": "admin001",  
    "email": "admin@doit.com"  
}
```

## Success Response:

```
{  
    "message": "Reset code sent to your email"  
}
```

## Admin Reset Password

**Endpoint:** POST /auth/admin/reset-password

**Public:** Yes

**Description:** Resets admin password using verification code.

### Request Body:

```
{  
    "adminCode": "admin001",  
    "verificationCode": "123456",  
    "newPassword": "NewSecure@123"  
}
```

### Password Requirements:

- Minimum 8 characters
- At least one uppercase letter
- At least one lowercase letter
- At least one number
- At least one special character

## Success Response:

```
{  
    "message": "Password reset successfully"  
}
```

## 🔒 Public Endpoints

### Products

#### Get All Products (with filtering and pagination)

**Endpoint:** GET /products

**Public:** Yes

**Description:** Browse products with advanced filtering, sorting, and pagination.

### Query Parameters:

Parameter	Type	Default	Description
page	number	1	Page number
limit	number	20	Items per page (max 100)
sortBy	enum	featured	Sort order (see SortBy enum)
category	string	-	Filter by category ID
subCategory	string	-	Filter by subcategory ID
productList	string	-	Filter by product list ID
vendor	string	-	Filter by vendor name
gender	enum	-	Filter by gender (UNISEX, MEN, WOMEN, KIDS)
type	string	-	Filter by product type
search	string	-	Search by name, SKU
minPrice	number	-	Minimum price filter
maxPrice	number	-	Maximum price filter
colors	string	-	Comma-separated color filter
sizes	string	-	Comma-separated size filter
availability	enum	-	Filter by stock (in-stock, low-stock, out-of-stock)

### Sort Options (sortBy):

- `featured` - Most viewed products (default)
- `best-selling` - Most ordered products
- `a-z` - Name ascending
- `z-a` - Name descending
- `price-low` - Price ascending
- `price-high` - Price descending
- `date-old` - Oldest first
- `date-new` - Newest first

### Example Request:

```
GET /products?page=1&limit=20&sortBy=price-low&category=cm5cat123&minPrice=100&maxPrice=500&c
```

### Success Response:

```
{
  "products": [
    {
      "id": "cm5prod123",
      "sku": "364U0w2",
      "nameEn": "BOUNCE SPORT RUNNING SHOES",
      "nameAr": "حذاء جري باونس سبورت",
      "descriptionEn": "Designed to follow the contour of your foot...",
      "descriptionAr": "مصمم لينتتبع شكل قدمك..."
    }
  ]
}
```

```
"detailsEn": ["Regular fit", "Mesh upper", "Bounce midsole"],  
"detailsAr": ["ملامة عادية", "جزء علوي شبكي", "نعل أوسط باونس"],  
"basePrice": 1630,  
"discountPercentage": 30,  
"finalPrice": 1141,  
"vendor": "Bounce",  
"gender": "UNISEX",  
"type": "RUNNING SHOES",  
"status": "PUBLISHED",  
"sizeChartUrl": "/uploads/size-charts/bounce.jpg",  
"images": [  
    {  
        "id": "cm5img1",  
        "url": "/uploads/products/bounce-1.jpg",  
        "order": 0  
    },  
    {  
        "id": "cm5img2",  
        "url": "/uploads/products/bounce-2.jpg",  
        "order": 1  
    }  
,  
    "colors": ["Black", "Pink"],  
    "sizes": ["EU- 35", "EU- 36", "EU- 37"],  
    "availability": "in-stock",  
    "totalStock": 50,  
    "viewCount": 245,  
    "createdAt": "2025-01-30T10:00:00Z",  
    "category": {  
        "id": "cm5cat1",  
        "nameEn": "Men",  
        "nameAr": "رجال"  
    },  
    "subCategory": {  
        "id": "cm5sub1",  
        "nameEn": "Footwear",  
        "nameAr": "أحذية"  
    },  
    "productList": {  
        "id": "cm5list1",  
        "nameEn": "Running",  
        "nameAr": "جري"  
    }  
},  
],  
"pagination": {  
    "page": 1,  
    "limit": 20,  
    "total": 45,  
    "totalPages": 3  
}
```

# Get Product by ID

**Endpoint:** GET /products/:id

**Public:** Yes

**Description:** Get detailed product information. Auto-increments view count.

## URL Parameters:

- `id` - Product ID (required)

## Example Request:

```
GET /products/cm5prod123
```

## Success Response:

```
{
  "id": "cm5prod123",
  "sku": "364U0w2",
  "nameEn": "BOUNCE SPORT RUNNING SHOES",
  "nameAr": "حذاء جري باونس سبورت",
  "descriptionEn": "Designed to follow the contour of your foot. Cushioned to feel comfortable and supportive. Perfect for all-day comfort and performance.", "descriptionAr": "مصمم ليتبع شكل قدمك. مبطن ليشعرك بالراحة أثناء كل نشاط",
  "detailsEn": [
    "Regular fit",
    "Sandwich mesh upper",
    "Textile lining",
    "Bounce midsole"
  ],
  "detailsAr": [
    "ملاءمة عاديّة",
    "جزء علوي شبكي",
    "بطانة نسيجية",
    "نعل أوسط باونس"
  ],
  "basePrice": 1630,
  "discountPercentage": 30,
  "finalPrice": 1141,
  "vendor": "Bounce",
  "gender": "UNISEX",
  "type": "RUNNING SHOES",
  "status": "PUBLISHED",
  "sizeChartUrl": "/uploads/size-charts/bounce.jpg",
  "images": [
    {
      "id": "cm5img1",
      "url": "/uploads/products/bounce-1.jpg",
      "order": 0
    },
    {
      "id": "cm5img2",
      "url": "/uploads/products/bounce-2.jpg",
      "order": 1
    }
  ]
}
```

```
"url": "/uploads/products/bounce-2.jpg",
"order": 1
},
],
"colors": ["Black", "Pink"],
"sizes": ["EU- 35", "EU- 36", "EU- 37"],
"availability": "in-stock",
"totalStock": 50,
"viewCount": 246,
"createdAt": "2025-01-30T10:00:00Z",
"category": {
    "id": "cm5cat1",
    "nameEn": "Men",
    "nameAr": "رجال"
},
"subCategory": {
    "id": "cm5sub1",
    "nameEn": "Footwear",
    "nameAr": "أحذية"
},
"productList": {
    "id": "cm5list1",
    "nameEn": "Running",
    "nameAr": "جري"
}
}
```

## Error Response:

```
{
    "statusCode": 404,
    "message": "Product not found"
}
```

## Get Featured Products

**Endpoint:** GET /products/featured

**Public:** Yes

**Description:** Get featured products based on admin configuration (auto-selected or manual).

## Success Response:

```
[
{
    "id": "cm5prod123",
    "sku": "364U0w2",
    "nameEn": "BOUNCE SPORT RUNNING SHOES",
    "nameAr": "حذاء جري بانس سبورت",
    "descriptionEn": "Premium running shoes....",
    "descriptionAr": "...أحذية جري ممتازة....",
}
```

```

    "basePrice": 1630,
    "discountPercentage": 30,
    "finalPrice": 1141,
    "vendor": "Bounce",
    "gender": "UNISEX",
    "type": "RUNNING SHOES",
    "images": [...],
    "colors": ["Black", "Pink"],
    "sizes": ["EU- 35", "EU- 36"],
    "availability": "in-stock",
    "totalStock": 50,
    "viewCount": 246,
    "createdAt": "2025-01-30T10:00:00Z"
}
// ... more products (up to 9)
]

```

## Notes:

- Returns max 9 products
- If `autoChoose` is enabled: returns most viewed products
- If manual selection: returns admin-selected products
- Default: returns newest products

## Categories

### Get All Categories

**Endpoint:** GET /categories

**Public:** Yes

**Description:** Get all active categories with optional nested children.

#### Query Parameters:

Parameter	Type	Default	Description
<code>includeChildren</code>	boolean	false	Include subcategories and product lists

#### Example Request:

```
GET /categories?includeChildren=true
```

#### Success Response (with children):

```
[
{
  "id": "cm5cat1",
  "nameEn": "Men",
  "nameAr": "رجال",
  "icon": "/uploads/icons/men.svg",
}
```

```

    "status": true,
    "subCategories": [
        {
            "id": "cm5sub1",
            "nameEn": "Footwear",
            "nameAr": "أحذية",
            "icon": "/uploads/icons/shoes.svg",
            "productLists": [
                {
                    "id": "cm5list1",
                    "nameEn": "Running",
                    "nameAr": "جري"
                },
                {
                    "id": "cm5list2",
                    "nameEn": "Training",
                    "nameAr": "تمرين"
                }
            ]
        },
        {
            "id": "cm5sub2",
            "nameEn": "Clothing",
            "nameAr": "ملابس",
            "icon": "/uploads/icons/clothing.svg",
            "productLists": [
                {
                    "id": "cm5list3",
                    "nameEn": "T-Shirts",
                    "nameAr": "تيشيرتات"
                }
            ]
        }
    ],
    {
        "id": "cm5cat2",
        "nameEn": "Women",
        "nameAr": "نساء",
        "icon": "/uploads/icons/women.svg",
        "status": true,
        "subCategories": []
    }
]

```

### Success Response (without children):

```
[
{
    "id": "cm5cat1",
    "nameEn": "Men",
    "nameAr": "رجال",
    "icon": "/uploads/icons/men.svg",
    "status": true
}]
```

```
        "status": true
    },
    {
        "id": "cm5cat2",
        "nameEn": "Women",
        "nameAr": "نساء",
        "icon": "/uploads/icons/women.svg",
        "status": true
    }
]
```

## Get Category by ID

**Endpoint:** GET /categories/:id

**Public:** Yes

**Description:** Get single category with full hierarchy.

**URL Parameters:**

- `id` - Category ID (required)

**Example Request:**

```
GET /categories/cm5cat1
```

**Success Response:**

```
{
    "id": "cm5cat1",
    "nameEn": "Men",
    "nameAr": "رجال",
    "icon": "/uploads/icons/men.svg",
    "status": true,
    "subCategories": [
        {
            "id": "cm5sub1",
            "nameEn": "Footwear",
            "nameAr": "أحذية",
            "icon": "/uploads/icons/shoes.svg",
            "productLists": [
                {
                    "id": "cm5list1",
                    "nameEn": "Running",
                    "nameAr": "جري"
                }
            ]
        }
    ]
}
```

## Get Filter Options

**Endpoint:** GET /categories/filters

**Public:** Yes

**Description:** Get all available filter options for product filtering.

**Success Response:**

```
{  
    "brands": ["Adidas", "Bounce", "Nike", "Puma", "Reebok"],  
    "types": ["Football", "LIFESTYLE", "RUNNING SHOES", "T shirt", "TRAINING SHOES"],  
    "genders": ["KIDS", "MEN", "UNISEX", "WOMEN"],  
    "colors": ["Black", "Gray", "Multicolor", "Pink", "Red", "White"],  
    "sizes": ["EU- 35", "EU- 36", "EU- 37", "EU- 40", "EU- 41", "EU- 42", "L", "M", "NS", "S"],  
}
```

**Notes:**

- All arrays are sorted alphabetically
- Values are distinct/unique
- Only includes options from published products

## Content

### Get Home Page Content

**Endpoint:** GET /content/home

**Public:** Yes

**Description:** Get all content for homepage (hero section, vendors, banners).

**Success Response:**

```
{  
    "heroSection": {  
        "id": "cm5hero1",  
        "headlineEn": "ESSENTIAL ITEMS FOR",  
        "headlineAr": "عناصر أساسية لـ",  
        "descriptionEn": "Latest collection of premium sports gear",  
        "descriptionAr": "أحدث جموعة من معدات الرياضة الممتازة",  
        "price": 990,  
        "mainImageUrl": "/uploads/heroes/main-hero.jpg",  
        "variantImages": [  
            "/uploads/heroes/variant-1.jpg",  
            "/uploads/heroes/variant-2.jpg"  
        ],  
        "ctaTextEn": "ADD TO CART",  
        "ctaTextAr": "أضف إلى السلة",  
        "ctaLink": "/products/cm5prod123"  
    }  
}
```

```

} ,
"vendors": [
{
  "id": "cm5vend1",
  "name": "Nike",
  "logoUrl": "/uploads/brands/brand1.jpg"
},
{
  "id": "cm5vend2",
  "name": "Adidas",
  "logoUrl": "/uploads/brands/brand2.jpg"
}
],
"banners": [
{
  "id": "cm5ban1",
  "imageUrl": "/uploads/banners/black-friday.png",
  "titleEn": "BLACK FRIDAY",
  "titleAr": "الجمعة السوداء",
  "link": "/offers/black-friday"
},
{
  "id": "cm5ban2",
  "imageUrl": "/uploads/banners/exclusive.png",
  "titleEn": "EXCLUSIVE OFFERS",
  "titleAr": "عروض حصرية",
  "link": "/offers/exclusive"
}
]
}

```

## Notes:

- Only returns active/visible content
- Hero section is singular (one active hero)
- Vendors and banners are ordered by `order` field

## Get Active Popup Offer

**Endpoint:** GET /content/popup-offer

**Public:** Yes

**Description:** Get currently active popup offer for display.

### Success Response:

```
{
  "id": "cm5popup1",
  "headlineEn": "WELCOME OFFER",
  "headlineAr": "عرض الترحيب",
  "subHeadlineEn": "Get 100 EGP OFF",
  "text": "Welcome to our store! Get 100 EGP OFF on your first purchase.",
  "buttonText": "Shop Now"
}
```

```
"subHeadlineAr": "احصل على خصم 100 جنيه",
"amount": 100,
"voucherCode": "WELCOME100",
"targetedUser": "first_time_customer",
"imageUrl": "/uploads/popups/welcome.jpg"
}
```

## Response when no active popup:

```
null
```

### Notes:

- Only returns offers within valid date range
- Only returns status=true offers
- Use for showing popup on page load

## Guest Orders

### Create Guest Order (No Login Required)

**Endpoint:** POST /orders/guest

**Public:** Yes

**Description:** Place an order without logging in. Creates customer account if email doesn't exist.

### Request Body:

```
{
  "items": [
    {
      "productId": "cm5prod123",
      "color": "Black",
      "size": "EU- 42",
      "quantity": 2
    },
    {
      "productId": "cm5prod456",
      "color": "White",
      "size": "M",
      "quantity": 1
    }
  ],
  "email": "guest@example.com",
  "fullName": "Ahmed Hassan",
  "phoneNumber": "+201234567890",
  "addressLabel": "Home",
  "fullAddress": "123 Main St, Nasr City, Cairo, Egypt",
  "paymentMethod": "Cash on Delivery",
  "notes": "Please call before delivery",
}
```

```
"couponCode": "SUMMER25"  
}
```

## Success Response:

```
{  
    "id": "cm5order123",  
    "orderNumber": "#732365",  
    "status": "ORDER_PLACED",  
    "subtotal": 3450,  
    "discount": 345,  
    "shipping": 50,  
    "total": 3155,  
    "currency": "EGP",  
    "paymentMethod": "Cash on Delivery",  
    "deliveryDate": null,  
    "trackingNumber": null,  
    "notes": "Please call before delivery",  
    "createdAt": "2025-02-08T10:30:00Z",  
    "address": {  
        "label": "Home",  
        "fullAddress": "123 Main St, Nasr City, Cairo, Egypt"  
    },  
    "items": [  
        {  
            "id": "cm5item1",  
            "productName": "BOUNCE SPORT RUNNING SHOES",  
            "productImage": "/uploads/products/bounce-1.jpg",  
            "sku": "364U0w2",  
            "vendor": "Bounce",  
            "type": "RUNNING SHOES",  
            "gender": "UNISEX",  
            "color": "Black",  
            "size": "EU- 42",  
            "price": 1141,  
            "originalPrice": 1630,  
            "quantity": 2,  
            "discount": "30% OFF"  
        },  
        {  
            "id": "cm5item2",  
            "productName": "AlAhly 2025 Jersey",  
            "productImage": "/uploads/products/jersey-1.jpg",  
            "sku": "364U0w8",  
            "vendor": "Adidas",  
            "type": "T shirt",  
            "gender": "MEN",  
            "color": "White",  
            "size": "M",  
            "price": 1140,  
            "quantity": 1  
        }  
    ]  
}
```

```
]  
}
```

## Error Responses:

```
{  
    "statusCode": 400,  
    "message": "Insufficient stock for BOUNCE SPORT RUNNING SHOES. Available: 5, Requested: 10"  
}
```

```
{  
    "statusCode": 400,  
    "message": "Product cm5prod999 not found or unavailable"  
}
```

## Notes:

- Auto-creates customer if email doesn't exist
- Creates new address for each order
- Validates stock availability before placing order
- Applies coupon discount if valid
- Fixed shipping: 50 EGP
- Stock is decremented atomically in transaction

## Track Guest Order

**Endpoint:** GET /orders/track/:orderNumber

**Public:** Yes

**Description:** Track order status using order number (no login required).

### URL Parameters:

- `orderNumber` - Order number (e.g., #732365)

### Example Request:

```
GET /orders/track/%23732365
```

## Success Response:

```
{  
    "id": "cm5order123",  
    "orderNumber": "#732365",  
    "status": "SHIPPED",  
    "subtotal": 3450,  
    "discount": 345,  
    "shipping": 50,
```

```
"total": 3155,  
"currency": "EGP",  
"paymentMethod": "Cash on Delivery",  
"deliveryDate": null,  
"trackingNumber": "AX123456789",  
"notes": "Please call before delivery",  
"createdAt": "2025-02-08T10:30:00Z",  
"address": {  
    "label": "Home",  
    "fullAddress": "123 Main St, Nasr City, Cairo, Egypt"  
},  
"items": [...]  
}
```

## Error Response:

```
{  
    "statusCode": 404,  
    "message": "Order not found"  
}
```

# Customer Endpoints

## All customer endpoints require authentication:

```
Authorization: Bearer {customer-access-token}
```

## Profile Management

### Get Customer Profile

**Endpoint:** GET /customer/profile

**Auth Required:** Yes (Customer)

**Description:** Get current customer's profile with addresses and order stats.

### Success Response:

```
{  
    "id": "cm5cust123",  
    "email": "customer@example.com",  
    "fullName": "Ahmed Hassan",  
    "phoneNumber": "+201234567890",  
    "avatarUrl": "/uploads/avatars/ahmed.jpg",  
    "status": "ACTIVE",  
    "lastLogin": "2025-02-08T08:00:00Z",  
    "createdAt": "2025-01-01T00:00:00Z",  
    "addresses": [  
        {  
            "label": "Home",  
            "fullAddress": "123 Main St, Nasr City, Cairo, Egypt"  
        },  
        {  
            "label": "Work",  
            "fullAddress": "456 Elm St, Giza, Egypt"  
        }  
    ]  
}
```

```
{  
    "id": "cm5addr1",  
    "label": "Home",  
    "fullAddress": "123 Main St, Nasr City, Cairo, Egypt",  
    "createdAt": "2025-01-01T00:00:00Z"  
,  
{  
    "id": "cm5addr2",  
    "label": "Work",  
    "fullAddress": "456 Office Tower, Maadi, Cairo, Egypt",  
    "createdAt": "2025-01-15T00:00:00Z"  
}  
,  
]  
,  
"totalOrders": 12,  
"totalSpending": 15000  
}
```

## Update Customer Profile

**Endpoint:** PUT /customer/profile

**Auth Required:** Yes (Customer)

**Description:** Update customer profile information.

### Request Body:

```
{  
    "fullName": "Ahmed Hassan Mohamed",  
    "phoneNumber": "+201234567890",  
    "avatarUrl": "/uploads/avatars/new-avatar.jpg"  
}
```

### Success Response:

```
{  
    "id": "cm5cust123",  
    "email": "customer@example.com",  
    "fullName": "Ahmed Hassan Mohamed",  
    "phoneNumber": "+201234567890",  
    "avatarUrl": "/uploads/avatars/new-avatar.jpg",  
    "status": "ACTIVE",  
    "lastLogin": "2025-02-08T08:00:00Z",  
    "createdAt": "2025-01-01T00:00:00Z",  
    "addresses": [...],  
    "totalOrders": 12,  
    "totalSpending": 15000  
}
```

### Notes:

- Email cannot be changed

- All fields are optional
  - Phone number can be set to null to clear
- 

## Addresses

---

### Get All Addresses

**Endpoint:** GET /customer/addresses

**Auth Required:** Yes (Customer)

**Description:** Get all addresses for current customer.

#### Success Response:

```
[  
  {  
    "id": "cm5addr1",  
    "label": "Home",  
    "fullAddress": "123 Main St, Nasr City, Cairo, Egypt",  
    "createdAt": "2025-01-01T00:00:00Z"  
  },  
  {  
    "id": "cm5addr2",  
    "label": "Work",  
    "fullAddress": "456 Office Tower, Maadi, Cairo, Egypt",  
    "createdAt": "2025-01-15T00:00:00Z"  
  }  
]
```

---

### Create Address

**Endpoint:** POST /customer/addresses

**Auth Required:** Yes (Customer)

**Description:** Add new address for current customer.

#### Request Body:

```
{  
  "label": "Parents House",  
  "fullAddress": "789 Family St, Heliopolis, Cairo, Egypt"  
}
```

---

#### Success Response:

```
{  
  "id": "cm5addr3",  
  "label": "Parents House",  
  "fullAddress": "789 Family St, Heliopolis, Cairo, Egypt",  
}
```

```
"createdAt": "2025-02-08T10:00:00Z"  
}
```

## Update Address

**Endpoint:** PUT /customer/addresses/:id

**Auth Required:** Yes (Customer)

**Description:** Update existing address.

### URL Parameters:

- `id` - Address ID

### Request Body:

```
{  
  "label": "Office",  
  "fullAddress": "Updated Office Address, New Cairo, Egypt"  
}
```

### Success Response:

```
{  
  "id": "cm5addr2",  
  "label": "Office",  
  "fullAddress": "Updated Office Address, New Cairo, Egypt",  
  "createdAt": "2025-01-15T00:00:00Z"  
}
```

### Error Response:

```
{  
  "statusCode": 403,  
  "message": "Address not found or unauthorized"  
}
```

## Delete Address

**Endpoint:** DELETE /customer/addresses/:id

**Auth Required:** Yes (Customer)

**Description:** Delete address.

### URL Parameters:

- `id` - Address ID

### Success Response:

**Error Response:**

```
{
  "statusCode": 403,
  "message": "Address not found or unauthorized"
}
```

**Wishlist****Get Wishlist****Endpoint:** GET /wishlist**Auth Required:** Yes (Customer)**Description:** Get all items in customer's wishlist.**Success Response:**

```
[
  {
    "id": "cm5wish1",
    "productId": "cm5prod123",
    "product": {
      "id": "cm5prod123",
      "nameEn": "BOUNCE SPORT RUNNING SHOES",
      "nameAr": "حذاء جري باونس سبورت",
      "basePrice": 1630,
      "discountPercentage": 30,
      "finalPrice": 1141,
      "images": ["/uploads/products/bounce-1.jpg"],
      "vendor": "Bounce",
      "availability": "in-stock"
    },
    "createdAt": "2025-02-01T10:00:00Z"
  },
  {
    "id": "cm5wish2",
    "productId": "cm5prod456",
    "product": {
      "id": "cm5prod456",
      "nameEn": "Nike Air Max",
      "nameAr": "نایک ایر مکس",
      "basePrice": 1300,
      "discountPercentage": 0,
      "finalPrice": 1300,
      "images": ["/uploads/products/nike-1.jpg"],
      "vendor": "Nike",
      "availability": "low-stock"
    }
  }
]
```

```
},
  "createdAt": "2025-02-05T14:30:00Z"
}
]
```

## Add to Wishlist

**Endpoint:** POST /wishlist

**Auth Required:** Yes (Customer)

**Description:** Add product to wishlist.

**Request Body:**

```
{
  "productId": "cm5prod789"
}
```

**Success Response:**

```
{
  "id": "cm5wish3",
  "productId": "cm5prod789",
  "product": {
    "id": "cm5prod789",
    "nameEn": "AlAhly 2025 Jersey",
    "nameAr": "قميص الأهلي 2025",
    "basePrice": 1140,
    "discountPercentage": 0,
    "finalPrice": 1140,
    "images": ["/uploads/products/jersey-1.jpg"],
    "vendor": "Adidas",
    "availability": "in-stock"
  },
  "createdAt": "2025-02-08T11:00:00Z"
}
```

**Error Responses:**

```
{
  "statusCode": 404,
  "message": "Product not found"
}
```

```
{
  "statusCode": 409,
  "message": "Product already in wishlist"
}
```

## Remove from Wishlist

**Endpoint:** DELETE /wishlist/:productId

**Auth Required:** Yes (Customer)

**Description:** Remove product from wishlist.

### URL Parameters:

- productId - Product ID

### Success Response:

```
204 No Content
```

### Error Response:

```
{  
  "statusCode": 404,  
  "message": "Item not found in wishlist"  
}
```

## Clear Wishlist

**Endpoint:** DELETE /wishlist

**Auth Required:** Yes (Customer)

**Description:** Remove all items from wishlist.

### Success Response:

```
204 No Content
```

## Customer Orders

### Create Order (Authenticated Customer)

**Endpoint:** POST /orders

**Auth Required:** Yes (Customer)

**Description:** Place order as authenticated customer.

### Request Body:

```
{  
  "items": [  
    {  
      "productId": "cm5prod123",  
      "color": "Black",  
      "size": "M",  
      "quantity": 2  
    }  
  ]  
}
```

```

    "size": "EU- 42",
    "quantity": 2
}
],
"addressId": "cm5addr1",
"paymentMethod": "Cash on Delivery",
"notes": "Please call before delivery",
"couponCode": "SUMMER25"
}

```

## Success Response:

```
{
  "id": "cm5order456",
  "orderNumber": "#845621",
  "status": "ORDER_PLACED",
  "subtotal": 2282,
  "discount": 228.2,
  "shipping": 50,
  "total": 2103.8,
  "currency": "EGP",
  "paymentMethod": "Cash on Delivery",
  "deliveryDate": null,
  "trackingNumber": null,
  "notes": "Please call before delivery",
  "createdAt": "2025-02-08T11:30:00Z",
  "address": {
    "label": "Home",
    "fullAddress": "123 Main St, Nasr City, Cairo, Egypt"
  },
  "items": [
    {
      "id": "cm5item3",
      "productName": "BOUNCE SPORT RUNNING SHOES",
      "productImage": "/uploads/products/bounce-1.jpg",
      "sku": "364U0w2",
      "vendor": "Bounce",
      "type": "RUNNING SHOES",
      "gender": "UNISEX",
      "color": "Black",
      "size": "EU- 42",
      "price": 1141,
      "originalPrice": 1630,
      "quantity": 2,
      "discount": "30% OFF"
    }
  ]
}
```

## Notes:

- Uses existing customer addresses

- Customer info auto-filled from profile
- Same stock validation as guest checkout

## Get Customer Orders

**Endpoint:** GET /orders

**Auth Required:** Yes (Customer)

**Description:** Get all orders for current customer with pagination.

### Query Parameters:

Parameter	Type	Default	Description
page	number	1	Page number
limit	number	20	Items per page
status	string	all	Filter by status

### Status Options:

- all - All orders
- order-placed - New orders
- processed - Being prepared
- shipped - In transit
- delivered - Completed
- cancelled - Cancelled orders

### Example Request:

```
GET /orders?page=1&limit=10&status=shipped
```

### Success Response:

```
{
  "orders": [
    {
      "id": "cm5order456",
      "orderNumber": "#845621",
      "status": "SHIPPED",
      "subtotal": 2282,
      "discount": 228.2,
      "shipping": 50,
      "total": 2103.8,
      "currency": "EGP",
      "paymentMethod": "Cash on Delivery",
      "deliveryDate": null,
      "trackingNumber": "AX987654321",
      "createdAt": "2025-02-08T11:30:00Z",
      "address": {
        "label": "Home",
        "fullAddress": "123 Main St, Nasr City, Cairo, Egypt"
      }
    }
  ]
}
```

```
},
  "items": [...]
},
],
"pagination": {
  "page": 1,
  "limit": 10,
  "total": 25,
  "totalPages": 3
}
}
```

## Get Order by ID

**Endpoint:** GET /orders/:id

**Auth Required:** Yes (Customer)

**Description:** Get detailed order information.

### URL Parameters:

- `id` - Order ID

### Success Response:

```
{
  "id": "cm5order456",
  "orderNumber": "#845621",
  "status": "SHIPPED",
  "subtotal": 2282,
  "discount": 228.2,
  "shipping": 50,
  "total": 2103.8,
  "currency": "EGP",
  "paymentMethod": "Cash on Delivery",
  "deliveryDate": null,
  "trackingNumber": "AX987654321",
  "notes": "Please call before delivery",
  "createdAt": "2025-02-08T11:30:00Z",
  "address": {
    "label": "Home",
    "fullAddress": "123 Main St, Nasr City, Cairo, Egypt"
  },
  "items": [
    {
      "id": "cm5item3",
      "productName": "BOUNCE SPORT RUNNING SHOES",
      "productImage": "/uploads/products/bounce-1.jpg",
      "sku": "364U0w2",
      "vendor": "Bounce",
      "type": "RUNNING SHOES",
      "gender": "UNISEX",
      "size": "42"
    }
  ]
}
```

```
        "color": "Black",
        "size": "EU- 42",
        "price": 1141,
        "originalPrice": 1630,
        "quantity": 2,
        "discount": "30% OFF"
    }
]
}
```

## Error Responses:

```
{
  "statusCode": 404,
  "message": "Order not found"
}
```

```
{
  "statusCode": 403,
  "message": "Unauthorized"
}
```

# Admin Endpoints

## All admin endpoints require admin authentication:

```
Authorization: Bearer {admin-access-token}
```

## Admin Products

### Get All Products (Admin View)

**Endpoint:** GET /admin/products

**Auth Required:** Yes (Admin)

**Description:** Get all products with admin-specific fields and filters.

#### Query Parameters:

Parameter	Type	Default	Description
page	number	1	Page number
limit	number	20	Items per page (max 100)
search	string	-	Search by name, SKU, vendor
status	enum	-	Filter by status (PUBLISHED, UNPUBLISHED, DRAFT)
category	string	-	Filter by category ID

#### Example Request:

```
GET /admin/products?page=1&limit=20&search=nike&status=PUBLISHED&category=cm5cat1
```

## Success Response:

```
{  
  "products": [  
    {  
      "id": "cm5prod123",  
      "sku": "364U0w2",  
      "nameEn": "BOUNCE SPORT RUNNING SHOES",  
      "nameAr": "حذاء جري باونس سبورت",  
      "basePrice": 1630,  
      "discountPercentage": 30,  
      "vendor": "Bounce",  
      "type": "RUNNING SHOES",  
      "status": "PUBLISHED",  
      "totalStock": 50,  
      "availability": "In Stock",  
      "viewCount": 245,  
      "totalOrders": 12,  
      "createdAt": "2025-01-30T10:00:00Z",  
      "category": "Men",  
      "subCategory": "Footwear",  
      "productList": "Running"  
    }  
  ],  
  "pagination": {  
    "page": 1,  
    "limit": 20,  
    "total": 45,  
    "totalPages": 3  
  }  
}
```

## Availability Values:

- In Stock - **totalStock > 10**
- Low Stock - **totalStock 1-10**
- Out of Stock - **totalStock = 0**

## Get Product by ID (Admin View)

**Endpoint:** GET /admin/products/:id

**Auth Required:** Yes (Admin)

**Description:** Get complete product details including all variants.

## URL Parameters:

- **id** - Product ID

## Success Response:

```
{  
    "id": "cm5prod123",  
    "productListId": "cm5list1",  
    "sku": "364U0w2",  
    "nameEn": "BOUNCE SPORT RUNNING SHOES",  
    "nameAr": "حذاء جري باونس سبورت",  
    "descriptionEn": "Designed to follow the contour of your foot...",  
    "descriptionAr": "مصمم ليتبع شكل قدمك...",  
    "detailsEn": ["Regular fit", "Mesh upper", "Bounce midsole"],  
    "detailsAr": ["ملاءمة عادية", "جزء علوي شبكي", "تعل أوسط باونس"],  
    "basePrice": 1630,  
    "discountPercentage": 30,  
    "vendor": "Bounce",  
    "gender": "UNISEX",  
    "type": "RUNNING SHOES",  
    "status": "PUBLISHED",  
    "sizeChartUrl": "/uploads/size-charts/bounce.jpg",  
    "viewCount": 245,  
    "createdAt": "2025-01-30T10:00:00Z",  
    "updatedAt": "2025-02-01T14:20:00Z",  
    "images": [  
        {  
            "id": "cm5img1",  
            "url": "/uploads/products/bounce-1.jpg",  
            "order": 0,  
            "createdAt": "2025-01-30T10:00:00Z"  
        },  
        {  
            "id": "cm5img2",  
            "url": "/uploads/products/bounce-2.jpg",  
            "order": 1,  
            "createdAt": "2025-01-30T10:00:00Z"  
        }  
    "variants": [  
        {  
            "id": "cm5var1",  
            "color": "Black",  
            "size": "EU- 35",  
            "quantity": 15,  
            "createdAt": "2025-01-30T10:00:00Z"  
        },  
        {  
            "id": "cm5var2",  
            "color": "Black",  
            "size": "EU- 36",  
            "quantity": 12,  
            "createdAt": "2025-01-30T10:00:00Z"  
        },  
        {  
            "id": "cm5var3",  
            "color": "Black",  
            "size": "EU- 37",  
            "quantity": 10,  
            "createdAt": "2025-01-30T10:00:00Z"  
        }  
    ]  
}
```

```
"color": "Pink",
  "size": "EU- 35",
  "quantity": 10,
  "createdAt": "2025-01-30T10:00:00Z"
}
],
"productList": {
  "id": "cm5list1",
  "nameEn": "Running",
  "nameAr": "جري",
  "subCategory": {
    "id": "cm5sub1",
    "nameEn": "Footwear",
    "nameAr": "أحذية",
    "category": {
      "id": "cm5cat1",
      "nameEn": "Men",
      "nameAr": "رجال"
    }
  }
}
}
```

## Create Product

**Endpoint:** POST /admin/products

**Auth Required:** Yes (Admin)

**Description:** Create new product with images and variants.

### Request Body:

```
{
  "productListId": "cm5list1",
  "sku": "NIKE123",
  "nameEn": "Nike Air Max 2025",
  "nameAr": "2025 نایک ایر مکس",
  "descriptionEn": "Premium running shoes with Air Max technology",
  "descriptionAr": "أحذية جري ممتازة بتقنية اير مکس",
  "detailsEn": [
    "Regular fit",
    "Mesh upper",
    "Air Max cushioning"
  ],
  "detailsAr": [
    "ملاءمة عادي",
    "جزء علوي شبكي",
    "توسيع اير مکس"
  ],
  "basePrice": 1500,
  "discountPercentage": 20,
  "vendor": "Nike",
```

```

"gender": "MEN",
"type": "RUNNING SHOES",
"status": "PUBLISHED",
"sizeChartUrl": "/uploads/size-charts/nike.jpg",
"imageUrls": [
    "/uploads/products/nike-air-1.jpg",
    "/uploads/products/nike-air-2.jpg",
    "/uploads/products/nike-air-3.jpg"
],
"variants": [
    {
        "color": "Black",
        "size": "EU- 42",
        "quantity": 20
    },
    {
        "color": "Black",
        "size": "EU- 43",
        "quantity": 15
    },
    {
        "color": "White",
        "size": "EU- 42",
        "quantity": 10
    },
    {
        "color": "White",
        "size": "EU- 43",
        "quantity": 8
    }
]
}

```

## Field Requirements:

- `productListId` - **Must exist (required)**
- `sku` - **Must be unique (required)**
- `nameEn` , `nameAr` - **Required**
- `descriptionEn` , `descriptionAr` - **Optional**
- `detailsEn` , `detailsAr` - **Array of strings (optional)**
- `basePrice` - **Required, must be > 0**
- `discountPercentage` - **Required, 0-100**
- `vendor` - **Required**
- `gender` - **Enum: UNISEX, MEN, WOMEN, KIDS**
- `type` - **Required**
- `status` - **Enum: PUBLISHED, UNPUBLISHED, DRAFT**
- `sizeChartUrl` - **Optional**
- `imageUrls` - **Array of image URLs (required, min 1)**
- `variants` - **Array of variants (required, min 1)**

## Success Response:

```
{  
  "id": "cm5prod999",  
  "sku": "NIKE123",  
  "nameEn": "Nike Air Max 2025",  
  "nameAr": "2025 نایک ایر مکس",  
  "basePrice": 1500,  
  "discountPercentage": 20,  
  "vendor": "Nike",  
  "type": "RUNNING SHOES",  
  "status": "PUBLISHED",  
  "totalStock": 53,  
  "availability": "In Stock",  
  "viewCount": 0,  
  "totalOrders": 0,  
  "createdAt": "2025-02-08T12:00:00Z",  
  "category": "Men",  
  "subCategory": "Footwear",  
  "productList": "Running"  
}
```

## Error Responses:

```
{  
  "statusCode": 409,  
  "message": "SKU already exists"  
}
```

```
{  
  "statusCode": 404,  
  "message": "Product list not found"  
}
```

## Update Product

**Endpoint:** PUT /admin/products/:id

**Auth Required:** Yes (Admin)

**Description:** Update product information, images, and/or variants.

### URL Parameters:

- id - Product ID

### Request Body (all fields optional):

```
{  
  "productListId": "cm5list2",  
  "nameEn": "Updated Product Name",  
  "nameAr": "نامه این پروداکت آپدیتد",  
  "basePrice": 1800,  
  "discountPercentage": 15,  
  "vendor": "New Vendor",  
  "type": "Sneakers",  
  "status": "PUBLISHED",  
  "totalStock": 45,  
  "availability": "In Stock",  
  "viewCount": 0,  
  "totalOrders": 0,  
  "createdAt": "2025-02-08T12:00:00Z",  
  "category": "Women",  
  "subCategory": "Sneakers",  
  "productList": "Sneakers",  
  "image": "https://example.com/images/product1.jpg",  
  "variants": [{"size": "40", "color": "Black"}, {"size": "42", "color": "White"}]  
}
```

```

"nameAr": "اسم المنتج الجديد",
"descriptionEn": "Updated description",
"descriptionAr": "وصف حدث",
"detailsEn": ["New detail 1", "New detail 2"],
"detailsAr": ["تفاصيل جديد 1", "تفاصيل جديد 2"],
"basePrice": 1600,
"discountPercentage": 25,
"vendor": "Nike",
"gender": "WOMEN",
"type": "TRAINING SHOES",
"status": "UNPUBLISHED",
"sizeChartUrl": "/uploads/size-charts/updated.jpg",
"imageUrls": [
    "/uploads/products/new-image-1.jpg",
    "/uploads/products/new-image-2.jpg"
],
"variants": [
    {
        "color": "Red",
        "size": "EU- 38",
        "quantity": 25
    }
]
}

```

## Success Response:

```
{
    "id": "cm5prod123",
    "sku": "364U0w2",
    "nameEn": "Updated Product Name",
    "nameAr": "اسم المنتج الجديد",
    "basePrice": 1600,
    "discountPercentage": 25,
    "vendor": "Nike",
    "type": "TRAINING SHOES",
    "status": "UNPUBLISHED",
    "totalStock": 25,
    "availability": "In Stock",
    "viewCount": 245,
    "totalOrders": 12,
    "createdAt": "2025-01-30T10:00:00Z",
    "category": "Men",
    "subCategory": "Footwear",
    "productList": "Training"
}
```

## Notes:

- If `imageUrls` provided: replaces all images
- If `variants` provided: replaces all variants
- SKU cannot be changed

- All other fields optional
- 

## Delete Product

**Endpoint:** DELETE /admin/products/:id

**Auth Required:** Yes (Admin)

**Description:** Delete product (only if no orders exist).

### URL Parameters:

- `id` - Product ID

### Success Response:

```
204 No Content
```

### Error Responses:

```
{  
  "statusCode": 404,  
  "message": "Product not found"  
}
```

```
{  
  "statusCode": 409,  
  "message": "Cannot delete product with existing orders. Set status to UNPUBLISHED instead."  
}
```

---

## Admin Categories

### Get All Categories (Admin View)

**Endpoint:** GET /admin/categories

**Auth Required:** Yes (Admin)

**Description:** Get all categories with statistics.

### Success Response:

```
[  
  {  
    "id": "cm5cat1",  
    "nameEn": "Men",  
    "nameAr": "رجال",  
    "icon": "/uploads/icons/men.svg",  
    "status": true,  
    "order": 1,
```

```
"totalSubCategories": 2,  
"totalProducts": 45,  
"createdAt": "2025-01-01T00:00:00Z"  
,  
{  
  "id": "cm5cat2",  
  "nameEn": "Women",  
  "nameAr": "نساء",  
  "icon": "/uploads/icons/women.svg",  
  "status": true,  
  "order": 2,  
  "totalSubCategories": 3,  
  "totalProducts": 32,  
  "createdAt": "2025-01-01T00:00:00Z"  
}  
]  
]
```

## Get Category by ID (Admin View)

**Endpoint:** GET /admin/categories/:id

**Auth Required:** Yes (Admin)

**Description:** Get complete category hierarchy.

**URL Parameters:**

- `id` - Category ID

**Success Response:**

```
{  
  "id": "cm5cat1",  
  "nameEn": "Men",  
  "nameAr": "رجال",  
  "icon": "/uploads/icons/men.svg",  
  "status": true,  
  "order": 1,  
  "createdAt": "2025-01-01T00:00:00Z",  
  "updatedAt": "2025-01-01T00:00:00Z",  
  "subCategories": [  
    {  
      "id": "cm5sub1",  
      "categoryId": "cm5cat1",  
      "nameEn": "Footwear",  
      "nameAr": "أحذية",  
      "icon": "/uploads/icons/shoes.svg",  
      "order": 1,  
      "createdAt": "2025-01-01T00:00:00Z",  
      "updatedAt": "2025-01-01T00:00:00Z",  
      "productLists": [  
        {  
          "id": "cm5list1",  
          "name": "Footwear Products",  
          "products": [{"id": "cm5prod1", "name": "Shoe 1", "category": "Footwear"}]  
        }  
      ]  
    }  
  ]  
}
```

```
        "subCategoryId": "cm5sub1",
        "nameEn": "Running",
        "nameAr": "جري",
        "order": 1,
        "createdAt": "2025-01-01T00:00:00Z",
        "updatedAt": "2025-01-01T00:00:00Z"
    },
]
}
]
}
```

## Create Category

**Endpoint:** POST /admin/categories

**Auth Required:** Yes (Admin)

**Description:** Create new category.

### Request Body:

```
{
    "nameEn": "Kids",
    "nameAr": "أطفال",
    "icon": "/uploads/icons/kids.svg",
    "status": true,
    "order": 3
}
```

### Field Requirements:

- nameEn , nameAr - Required
- icon - Optional
- status - Optional, default: true
- order - Optional, default: 0

### Success Response:

```
{
    "id": "cm5cat3",
    "nameEn": "Kids",
    "nameAr": "أطفال",
    "icon": "/uploads/icons/kids.svg",
    "status": true,
    "order": 3,
    "totalSubCategories": 0,
    "totalProducts": 0,
    "createdAt": "2025-02-08T12:30:00Z"
}
```

## Update Category

**Endpoint:** PUT /admin/categories/:id

**Auth Required:** Yes (Admin)

**Description:** Update category information.

### URL Parameters:

- `:id` - Category ID

### Request Body (all fields optional):

```
{  
    "nameEn": "Updated Category Name",  
    "nameAr": "اسم الفئة الحديث",  
    "icon": "/uploads/icons/new-icon.svg",  
    "status": false,  
    "order": 5  
}
```

### Success Response:

```
{  
    "id": "cm5cat1",  
    "nameEn": "Updated Category Name",  
    "nameAr": "اسم الفئة الحديث",  
    "icon": "/uploads/icons/new-icon.svg",  
    "status": false,  
    "order": 5,  
    "totalSubCategories": 2,  
    "totalProducts": 45,  
    "createdAt": "2025-01-01T00:00:00Z"  
}
```

## Delete Category

**Endpoint:** DELETE /admin/categories/:id

**Auth Required:** Yes (Admin)

**Description:** Delete category (only if no products exist).

### URL Parameters:

- `:id` - Category ID

### Success Response:

```
204 No Content
```

## Error Response:

```
{  
  "statusCode": 409,  
  "message": "Cannot delete category with existing products"  
}
```

## Create SubCategory

**Endpoint:** POST /admin/categories/subcategories

**Auth Required:** Yes (Admin)

**Description:** Create new subcategory under a category.

### Request Body:

```
{  
  "categoryId": "cm5cat1",  
  "nameEn": "Accessories",  
  "nameAr": "إكسسوارات",  
  "icon": "/uploads/icons/accessories.svg",  
  "order": 3  
}
```

### Field Requirements:

- categoryId - Required, must exist
- nameEn , nameAr - Required
- icon - Optional
- order - Optional, default: 0

### Success Response:

```
{  
  "id": "cm5sub3",  
  "categoryId": "cm5cat1",  
  "nameEn": "Accessories",  
  "nameAr": "إكسسوارات",  
  "icon": "/uploads/icons/accessories.svg",  
  "order": 3,  
  "createdAt": "2025-02-08T13:00:00Z",  
  "updatedAt": "2025-02-08T13:00:00Z",  
  "category": {  
    "id": "cm5cat1",  
    "nameEn": "Men",  
    "nameAr": "رجال"  
  },  
  "productLists": []  
}
```

## Update SubCategory

**Endpoint:** PUT /admin/categories/subcategories/:id

**Auth Required:** Yes (Admin)

**Description:** Update subcategory information.

### URL Parameters:

- `id` - SubCategory ID

### Request Body (all fields optional):

```
{  
  "nameEn": "Updated SubCategory",  
  "nameAr": "فئة فرعية محدثة",  
  "icon": "/uploads/icons/new-icon.svg",  
  "order": 5  
}
```

### Success Response:

```
{  
  "id": "cm5sub1",  
  "categoryId": "cm5cat1",  
  "nameEn": "Updated SubCategory",  
  "nameAr": "فئة فرعية محدثة",  
  "icon": "/uploads/icons/new-icon.svg",  
  "order": 5,  
  "createdAt": "2025-01-01T00:00:00Z",  
  "updatedAt": "2025-02-08T13:30:00Z",  
  "category": {...},  
  "productLists": [...]  
}
```

## Delete SubCategory

**Endpoint:** DELETE /admin/categories/subcategories/:id

**Auth Required:** Yes (Admin)

**Description:** Delete subcategory (only if no products exist).

### URL Parameters:

- `id` - SubCategory ID

### Success Response:

```
204 No Content
```

## Error Response:

```
{  
  "statusCode": 409,  
  "message": "Cannot delete subcategory with existing products"  
}
```

## Create Product List

**Endpoint:** POST /admin/categories/product-lists

**Auth Required:** Yes (Admin)

**Description:** Create new product list under a subcategory.

### Request Body:

```
{  
  "subCategoryId": "cm5sub1",  
  "nameEn": "Basketball",  
  "nameAr": "كرة سلة",  
  "order": 4  
}
```

### Field Requirements:

- `subCategoryId` - Required, must exist
- `nameEn`, `nameAr` - Required
- `order` - Optional, default: 0

### Success Response:

```
{  
  "id": "cm5list4",  
  "subCategoryId": "cm5sub1",  
  "nameEn": "Basketball",  
  "nameAr": "كرة سلة",  
  "order": 4,  
  "createdAt": "2025-02-08T14:00:00Z",  
  "updatedAt": "2025-02-08T14:00:00Z",  
  "subCategory": {  
    "id": "cm5sub1",  
    "nameEn": "Footwear",  
    "nameAr": "أحذية",  
    "category": {  
      "id": "cm5cat1",  
      "nameEn": "Men",  
      "nameAr": "رجال"  
    }  
  },  
},
```

```
"products": []  
}
```

## Update Product List

**Endpoint:** PUT /admin/categories/product-lists/:id

**Auth Required:** Yes (Admin)

**Description:** Update product list information.

### URL Parameters:

- `id` - ProductList ID

### Request Body (all fields optional):

```
{  
  "nameEn": "Updated Product List",  
  "nameAr": "قائمة منتجات حديثة",  
  "order": 6  
}
```

### Success Response:

```
{  
  "id": "cm5list1",  
  "subCategoryId": "cm5sub1",  
  "nameEn": "Updated Product List",  
  "nameAr": "قائمة منتجات حديثة",  
  "order": 6,  
  "createdAt": "2025-01-01T00:00:00Z",  
  "updatedAt": "2025-02-08T14:30:00Z",  
  "subCategory": {...},  
  "products": [...]  
}
```

## Delete Product List

**Endpoint:** DELETE /admin/categories/product-lists/:id

**Auth Required:** Yes (Admin)

**Description:** Delete product list (only if no products exist).

### URL Parameters:

- `id` - ProductList ID

### Success Response:

## Error Response:

```
{  
  "statusCode": 409,  
  "message": "Cannot delete product list with existing products"  
}
```

## Admin Orders

### Get All Orders (Admin View)

**Endpoint:** GET /admin/orders

**Auth Required:** Yes (Admin)

**Description:** Get all orders with filtering and statistics.

#### Query Parameters:

Parameter	Type	Default	Description
page	number	1	Page number
limit	number	20	Items per page
status	string	all	Filter by status
search	string	-	Search by order number, customer name, email

#### Status Options:

- all - All orders
- order-placed - ORDER\_PLACED
- processed - PROCESSED
- shipped - SHIPPED
- delivered - DELIVERED
- cancelled - CANCELLED

#### Example Request:

```
GET /admin/orders?page=1&limit=20&status=in-progress&search=john
```

#### Success Response:

```
{  
  "orders": [  
    {  
      "id": "cm5order123",  
      "orderNumber": "#732365",  
      "customer": {  
        "id": "cm5cust456",  
        "fullName": "John Doe",  
        "address": "123 Main St",  
        "city": "Anytown",  
        "state": "CA",  
        "zip": "90210",  
        "phone": "(555) 123-4567",  
        "email": "john.doe@example.com"  
      }  
    }  
  ]  
}
```

```
        "email": "john@example.com"
    },
    "status": "PROCESSED",
    "itemsCount": 3,
    "total": 3450,
    "currency": "EGP",
    "paymentMethod": "Cash on Delivery",
    "deliveryDate": null,
    "trackingNumber": null,
    "createdAt": "2025-01-25T10:00:00Z",
    "address": {
        "label": "Home",
        "fullAddress": "123 Main St, Cairo, Egypt"
    },
    "items": [
        {
            "id": "cm5item1",
            "productName": "BOUNCE SPORT RUNNING SHOES",
            "productImage": "/uploads/products/bounce-1.jpg",
            "sku": "364U0w2",
            "vendor": "Bounce",
            "color": "Black",
            "size": "EU- 42",
            "price": 1141,
            "quantity": 2
        }
    ],
    "statusHistory": [
        {
            "status": "ORDER_PLACED",
            "notes": "Order placed successfully",
            "createdAt": "2025-01-25T10:00:00Z"
        },
        {
            "status": "PROCESSED",
            "notes": "Order is being prepared",
            "createdAt": "2025-01-25T14:30:00Z"
        }
    ]
},
],
"pagination": {
    "page": 1,
    "limit": 20,
    "total": 150,
    "totalPages": 8
},
"stats": {
    "totalOrders": 150,
    "activeOrders": 45,
    "completedOrders": 95,
    "cancelledOrders": 10,
    "totalRevenue": 125000
}
```

```
}
```

## Get Order by ID (Admin View)

**Endpoint:** GET /admin/orders/:id

**Auth Required:** Yes (Admin)

**Description:** Get complete order details including customer info.

### URL Parameters:

- `id` - Order ID

### Success Response:

```
{
  "id": "cm5order123",
  "orderNumber": "#732365",
  "customer": {
    "id": "cm5cust456",
    "fullName": "John Doe",
    "email": "john@example.com"
  },
  "status": "PROCESSED",
  "itemsCount": 3,
  "total": 3450,
  "currency": "EGP",
  "paymentMethod": "Cash on Delivery",
  "deliveryDate": null,
  "trackingNumber": null,
  "createdAt": "2025-01-25T10:00:00Z",
  "address": {
    "label": "Home",
    "fullAddress": "123 Main St, Cairo, Egypt"
  },
  "items": [
    {
      "id": "cm5item1",
      "productName": "BOUNCE SPORT RUNNING SHOES",
      "productImage": "/uploads/products/bounce-1.jpg",
      "sku": "364U0w2",
      "vendor": "Bounce",
      "color": "Black",
      "size": "EU- 42",
      "price": 1141,
      "quantity": 2
    }
  ],
  "statusHistory": [
    {
      "status": "ORDER_PLACED",
      "date": "2025-01-25T10:00:00Z"
    }
  ]
}
```

```
        "notes": "Order placed successfully",
        "createdAt": "2025-01-25T10:00:00Z"
    },
    {
        "status": "PROCESSED",
        "notes": "Order is being prepared",
        "createdAt": "2025-01-25T14:30:00Z"
    }
]
}
```

## Update Order Status

**Endpoint:** PUT /admin/orders/:id/status

**Auth Required:** Yes (Admin)

**Description:** Update order status and add notes.

### URL Parameters:

- `id` - Order ID

### Request Body:

```
{
    "status": "SHIPPED",
    "notes": "Order shipped via Aramex",
    "trackingNumber": "AX123456789"
}
```

### Status Values:

- ORDER\_PLACED
- PROCESSED
- SHIPPED
- DELIVERED
- CANCELLED

### Field Requirements:

- `status` - Required, must be valid enum
- `notes` - Optional
- `trackingNumber` - Optional (recommended for SHIPPED status)

### Success Response:

```
{
    "id": "cm5order123",
    "orderNumber": "#732365",
    "customer": {...},
```

```

"status": "SHIPPED",
"itemsCount": 3,
"total": 3450,
"currency": "EGP",
"paymentMethod": "Cash on Delivery",
"deliveryDate": null,
"trackingNumber": "AX123456789",
"createdAt": "2025-01-25T10:00:00Z",
"address": {...},
"items": [...],
"statusHistory": [
{
    "status": "ORDER_PLACED",
    "notes": "Order placed successfully",
    "createdAt": "2025-01-25T10:00:00Z"
},
{
    "status": "PROCESSED",
    "notes": "Order is being prepared",
    "createdAt": "2025-01-25T14:30:00Z"
},
{
    "status": "SHIPPED",
    "notes": "Order shipped via Aramex",
    "createdAt": "2025-02-08T15:00:00Z"
}
]
}

```

## Notes:

- Status history is automatically created
- Setting status to DELIVERED auto-sets deliveryDate
- Tracking number can be updated anytime

## Delete Order

**Endpoint:** DELETE /admin/orders/:id

**Auth Required:** Yes (Admin)

**Description:** Delete order (permanent action).

### URL Parameters:

- `:id` - Order ID

### Success Response:

204 No Content

### Error Response:

```
{  
    "statusCode": 404,  
    "message": "Order not found"  
}
```

## Notes:

- This is a destructive action
- Consider cancelling orders instead of deleting
- Use with caution

## Admin Customers

### Get All Customers

**Endpoint:** GET /admin/customers

**Auth Required:** Yes (Admin)

**Description:** Get all customers with filtering and statistics.

#### Query Parameters:

Parameter	Type	Default	Description
page	number	1	Page number
limit	number	20	Items per page
status	string	all	Filter by status (all, active, blocked)
search	string	-	Search by name, email, phone

#### Example Request:

```
GET /admin/customers?page=1&limit=20&status=active&search=john
```

#### Success Response:

```
{  
    "customers": [  
        {  
            "id": "cm5cust123",  
            "fullName": "John Doe",  
            "email": "john@example.com",  
            "phoneNumber": "+201234567890",  
            "avatarUrl": null,  
            "status": "ACTIVE",  
            "lastLogin": "2025-01-30T08:00:00Z",  
            "createdAt": "2025-01-01T00:00:00Z",  
            "totalOrders": 12,  
            "totalSpending": 15000,  
            "addresses": [  
                {  
                    "id": "ad1",  
                    "street": "123 Main St",  
                    "city": "Anytown",  
                    "state": "CA",  
                    "zip": "90210",  
                    "primary": true  
                }  
            ]  
        }  
    ]  
}
```

```
        "id": "cm5addr1",
        "label": "Home",
        "fullAddress": "123 Main St, Cairo, Egypt"
    },
]
}
],
"pagination": {
    "page": 1,
    "limit": 20,
    "total": 350,
    "totalPages": 18
},
"stats": {
    "totalCustomers": 350,
    "activeCustomers": 340,
    "blockedCustomers": 10
}
}
```

## Get Customer by ID

**Endpoint:** GET /admin/customers/:id

**Auth Required:** Yes (Admin)

**Description:** Get detailed customer information.

### URL Parameters:

- `id` - Customer ID

### Success Response:

```
{
    "id": "cm5cust123",
    "fullName": "John Doe",
    "email": "john@example.com",
    "phoneNumber": "+201234567890",
    "avatarUrl": "/uploads/avatars/john.jpg",
    "status": "ACTIVE",
    "lastLogin": "2025-01-30T08:00:00Z",
    "createdAt": "2025-01-01T00:00:00Z",
    "totalOrders": 12,
    "totalSpending": 15000,
    "addresses": [
        {
            "id": "cm5addr1",
            "label": "Home",
            "fullAddress": "123 Main St, Nasr City, Cairo, Egypt"
        },
        {
            "id": "cm5addr2",
            "label": "Work",
            "fullAddress": "456 Elm St, Giza, Cairo, Egypt"
        }
    ]
}
```

```
        "label": "Work",
        "fullAddress": "456 Office Tower, Maadi, Cairo, Egypt"
    }
]
}
```

## Update Customer Status (Block/Unblock)

**Endpoint:** PUT /admin/customers/:id/status

**Auth Required:** Yes (Admin)

**Description:** Block or unblock customer account.

### URL Parameters:

- `:id` - Customer ID

### Request Body:

```
{
  "status": "BLOCKED"
}
```

### Status Values:

- `ACTIVE` - Normal account
- `BLOCKED` - Blocked account (cannot login)

### Success Response:

```
{
  "id": "cm5cust123",
  "fullName": "John Doe",
  "email": "john@example.com",
  "phoneNumber": "+201234567890",
  "avatarUrl": "/uploads/avatars/john.jpg",
  "status": "BLOCKED",
  "lastLogin": "2025-01-30T08:00:00Z",
  "createdAt": "2025-01-01T00:00:00Z",
  "totalOrders": 12,
  "totalSpending": 15000,
  "addresses": [...]
}
```

### Notes:

- Blocked customers cannot login
- Existing sessions remain valid until token expires
- Use this instead of deleting customers with orders

## Get Customer Orders

**Endpoint:** GET /admin/customers/:id/orders

**Auth Required:** Yes (Admin)

**Description:** Get all orders for specific customer.

### URL Parameters:

- `id` - Customer ID

### Query Parameters:

Parameter	Type	Default	Description
-----------	------	---------	-------------

page	number	1	Page number
limit	number	10	Items per page

### Success Response:

```
{  
  "orders": [  
    {  
      "id": "cm5order456",  
      "orderNumber": "#845621",  
      "status": "DELIVERED",  
      "total": 2103.8,  
      "itemsCount": 2,  
      "createdAt": "2025-02-08T11:30:00Z"  
    },  
    {  
      "id": "cm5order789",  
      "orderNumber": "#912345",  
      "status": "SHIPPED",  
      "total": 3250,  
      "itemsCount": 3,  
      "createdAt": "2025-01-15T09:00:00Z"  
    }  
  ],  
  "pagination": {  
    "page": 1,  
    "limit": 10,  
    "total": 12,  
    "totalPages": 2  
  }  
}
```

## Delete Customer

**Endpoint:** DELETE /admin/customers/:id

**Auth Required:** Yes (Admin)

**Description:** Delete customer (only if no orders exist).

## URL Parameters:

- `id` - Customer ID

## Success Response:

```
204 No Content
```

## Error Response:

```
{  
  "statusCode": 400,  
  "message": "Cannot delete customer with existing orders. Block them instead."  
}
```

## Notes:

- Cannot delete customers with orders
- Block customers instead to preserve order history
- Deletion is permanent

## Admin Content

### Hero Sections

#### Get All Hero Sections

**Endpoint:** GET /admin/content/hero-sections

**Auth Required:** Yes (Admin)

## Success Response:

```
[  
  {  
    "id": "cm5her01",  
    "headlineEn": "SUMMER COLLECTION",  
    "headlineAr": "مجموعة الصيف",  
    "descriptionEn": "Up to 50% OFF",  
    "descriptionAr": "50% خصم حتى",  
    "price": 990,  
    "mainImageUrl": "/uploads/heroes/summer.jpg",  
    "variantImages": [  
      "/uploads/heroes/summer-var1.jpg",  
      "/uploads/heroes/summer-var2.jpg"  
    ],  
    "ctaTextEn": "SHOP NOW",  
    "ctaTextAr": "تسوق الآن",  
    "ctaLink": "/category/summer",  
  }]
```

```
        "order": 1,  
        "status": true,  
        "createdAt": "2025-01-15T10:00:00Z",  
        "updatedAt": "2025-01-20T14:30:00Z"  
    }  
]
```

## Create Hero Section

**Endpoint:** POST /admin/content/hero-sections

**Auth Required:** Yes (Admin)

### Request Body:

```
{  
    "headlineEn": "WINTER SALE",  
    "headlineAr": "خفيضات الشتاء",  
    "descriptionEn": "Biggest discounts of the year",  
    "descriptionAr": "أكبر خصومات العام",  
    "price": 1200,  
    "mainImageUrl": "/uploads/heroes/winter-main.jpg",  
    "variantImages": [  
        "/uploads/heroes/winter-var1.jpg",  
        "/uploads/heroes/winter-var2.jpg",  
        "/uploads/heroes/winter-var3.jpg"  
    ],  
    "ctaTextEn": "BROWSE DEALS",  
    "ctaTextAr": "تصفح العروض",  
    "ctaLink": "/offers/winter-sale",  
    "order": 1,  
    "status": true  
}
```

### Field Requirements:

- headlineEn , headlineAr - **Required**
- descriptionEn , descriptionAr - **Optional**
- price - **Optional**
- mainImageUrl - **Required**
- variantImages - **Required (array of URLs)**
- ctaTextEn , ctaTextAr - **Optional**
- ctaLink - **Optional**
- order - **Optional, default: 0**
- status - **Optional, default: true**

### Success Response:

```
{  
    "id": "cm5hero2",  
    "order": 1,  
    "status": true,  
    "createdAt": "2025-01-15T10:00:00Z",  
    "updatedAt": "2025-01-20T14:30:00Z"  
}
```

```
"headlineEn": "WINTER SALE",
"headlineAr": "خفيضات الشتاء",
"descriptionEn": "Biggest discounts of the year",
"descriptionAr": "أكبر خصومات العام",
"price": 1200,
"mainImageUrl": "/uploads/heroes/winter-main.jpg",
"variantImages": [...],
"ctaTextEn": "BROWSE DEALS",
"ctaTextAr": "تصفح العروض",
"ctaLink": "/offers/winter-sale",
"order": 1,
"status": true,
"createdAt": "2025-02-08T16:00:00Z",
"updatedAt": "2025-02-08T16:00:00Z"
}
```

## Update Hero Section

**Endpoint:** PUT /admin/content/hero-sections/:id

**Auth Required:** Yes (Admin)

**URL Parameters:**

- `id` - Hero Section ID

**Request Body (all fields optional):**

```
{
  "headlineEn": "Updated Headline",
  "price": 1500,
  "status": false
}
```

## Delete Hero Section

**Endpoint:** DELETE /admin/content/hero-sections/:id

**Auth Required:** Yes (Admin)

**URL Parameters:**

- `id` - Hero Section ID

**Success Response:**

```
204 No Content
```

## Vendors

## Get All Vendors

**Endpoint:** GET /admin/content/vendors

**Auth Required:** Yes (Admin)

### Success Response:

```
[  
  {  
    "id": "cm5vend1",  
    "name": "Nike",  
    "logoUrl": "/uploads/brands/nike.png",  
    "order": 1,  
    "status": true,  
    "createdAt": "2025-01-01T00:00:00Z",  
    "updatedAt": "2025-01-01T00:00:00Z"  
  },  
  {  
    "id": "cm5vend2",  
    "name": "Adidas",  
    "logoUrl": "/uploads/brands/adidas.png",  
    "order": 2,  
    "status": true,  
    "createdAt": "2025-01-01T00:00:00Z",  
    "updatedAt": "2025-01-01T00:00:00Z"  
  }  
]
```

## Create Vendor

**Endpoint:** POST /admin/content/vendors

**Auth Required:** Yes (Admin)

### Request Body:

```
{  
  "name": "Puma",  
  "logoUrl": "/uploads/brands/puma.png",  
  "order": 3,  
  "status": true  
}
```

### Field Requirements:

- name - Required
- logoUrl - Required
- order - Optional, default: 0
- status - Optional, default: true

## Success Response:

```
{  
  "id": "cm5vend3",  
  "name": "Puma",  
  "logoUrl": "/uploads/brands/puma.png",  
  "order": 3,  
  "status": true,  
  "createdAt": "2025-02-08T16:30:00Z",  
  "updatedAt": "2025-02-08T16:30:00Z"  
}
```

## Update Vendor

**Endpoint:** PUT /admin/content/vendors/:id

**Auth Required:** Yes (Admin)

### URL Parameters:

- `:id` - Vendor ID

### Request Body (all fields optional):

```
{  
  "name": "Updated Name",  
  "logoUrl": "/uploads/brands/new-logo.png",  
  "order": 5,  
  "status": false  
}
```

## Delete Vendor

**Endpoint:** DELETE /admin/content/vendors/:id

**Auth Required:** Yes (Admin)

## Success Response:

```
204 No Content
```

## Banners

### Get All Banners

**Endpoint:** GET /admin/content/banners

**Auth Required:** Yes (Admin)

## Success Response:

```
[  
  {  
    "id": "cm5ban1",  
    "imageUrl": "/uploads/banners/black-friday.png",  
    "titleEn": "BLACK FRIDAY",  
    "titleAr": "الجمعة السوداء",  
    "link": "/offers/black-friday",  
    "order": 1,  
    "status": true,  
    "createdAt": "2025-01-10T00:00:00Z",  
    "updatedAt": "2025-01-10T00:00:00Z"  
  }  
]
```

## Create Banner

**Endpoint:** POST /admin/content/banners

**Auth Required:** Yes (Admin)

### Request Body:

```
{  
  "imageUrl": "/uploads/banners/new-year.png",  
  "titleEn": "NEW YEAR SALE",  
  "titleAr": "تخفيضات العام الجديد",  
  "link": "/offers/new-year",  
  "order": 2,  
  "status": true  
}
```

## Field Requirements:

- imageUrl - Required
- titleEn , titleAr - Optional
- link - Optional
- order - Optional, default: 0
- status - Optional, default: true

## Success Response:

```
{  
  "id": "cm5ban2",  
  "imageUrl": "/uploads/banners/new-year.png",  
  "titleEn": "NEW YEAR SALE",  
  "titleAr": " تخفيضات العام الجديد",  
  "link": "/offers/new-year",  
  "order": 2,
```

```
"status": true,  
"createdAt": "2025-02-08T17:00:00Z",  
"updatedAt": "2025-02-08T17:00:00Z"  
}
```

## Update Banner

**Endpoint:** PUT /admin/content/banners/:id

**Auth Required:** Yes (Admin)

### URL Parameters:

- `id` - Banner ID

### Request Body (all fields optional):

```
{  
  "imageUrl": "/uploads/banners/updated.png",  
  "titleEn": "Updated Title",  
  "status": false  
}
```

## Delete Banner

**Endpoint:** DELETE /admin/content/banners/:id

**Auth Required:** Yes (Admin)

### Success Response:

```
204 No Content
```

## Featured Products Configuration

### Get Featured Products Config

**Endpoint:** GET /admin/content/featured-products

**Auth Required:** Yes (Admin)

### Success Response:

```
{  
  "id": "cm5feat1",  
  "autoChoose": false,  
  "selectedProducts": [  
    "cm5prod123",  
    "cm5prod456",  
    "cm5prod789"
```

```
],  
"createdAt": "2025-01-01T00:00:00Z",  
"updatedAt": "2025-02-01T10:00:00Z"  
}
```

## Update Featured Products Config

**Endpoint:** PUT /admin/content/featured-products

**Auth Required:** Yes (Admin)

### Request Body:

```
{  
  "autoChoose": false,  
  "selectedProducts": [  
    "cm5prod123",  
    "cm5prod456",  
    "cm5prod789",  
    "cm5prod012",  
    "cm5prod345"  
  ]  
}
```

### Options:

- `autoChoose: true` - Automatically select most viewed products
- `autoChoose: false` - Use manual selection from `selectedProducts` array

### Field Requirements:

- `autoChoose` - Required (boolean)
- `selectedProducts` - Optional (array of product IDs), used only when `autoChoose=false`

### Success Response:

```
{  
  "id": "cm5feat1",  
  "autoChoose": false,  
  "selectedProducts": [  
    "cm5prod123",  
    "cm5prod456",  
    "cm5prod789",  
    "cm5prod012",  
    "cm5prod345"  
  ],  
  "createdAt": "2025-01-01T00:00:00Z",  
  "updatedAt": "2025-02-08T17:30:00Z"  
}
```

# Admin Offers

## Get All Offers

**Endpoint:** GET /admin/offers

**Auth Required:** Yes (Admin)

**Description:** Get all offers with optional status filter.

### Query Parameters:

Parameter	Type	Default	Description
status	string	all	Filter by status (all, active, expired, inactive)

### Status Filters:

- `all` - All offers
- `active` - Active and not expired
- `expired` - End date passed
- `inactive` - `status=false`

### Success Response:

```
[  
  {  
    "id": "cm5off1",  
    "code": "SUMMER25",  
    "nameEn": "Summer Sale 2025",  
    "nameAr": "2025 تخفيضات الصيف",  
    "type": "PERCENTAGE",  
    "discountValue": 25,  
    "minCartValue": 500,  
    "maxDiscount": 200,  
    "applyTo": "ALL",  
    "targetId": null,  
    "startDate": "2025-06-01T00:00:00Z",  
    "endDate": "2025-08-31T23:59:59Z",  
    "startTime": "00:00",  
    "endTime": "23:59",  
    "totalUsageLimit": 1000,  
    "perUserLimit": 5,  
    "currentUsage": 45,  
    "status": true,  
    "createdAt": "2025-05-15T10:00:00Z",  
    "updatedAt": "2025-05-15T10:00:00Z"  
  }]  
]
```

## Get Offer by ID

**Endpoint:** GET /admin/offers/:id

**Auth Required:** Yes (Admin)

## URL Parameters:

- `id` - Offer ID

## Success Response:

```
{  
  "id": "cm5off1",  
  "code": "SUMMER25",  
  "nameEn": "Summer Sale 2025",  
  "nameAr": "2025 خفيضات الصيف",  
  "type": "PERCENTAGE",  
  "discountValue": 25,  
  "minCartValue": 500,  
  "maxDiscount": 200,  
  "applyTo": "ALL",  
  "targetId": null,  
  "startDate": "2025-06-01T00:00:00Z",  
  "endDate": "2025-08-31T23:59:59Z",  
  "startTime": "00:00",  
  "endTime": "23:59",  
  "totalUsageLimit": 1000,  
  "perUserLimit": 5,  
  "currentUsage": 45,  
  "status": true,  
  "createdAt": "2025-05-15T10:00:00Z",  
  "updatedAt": "2025-05-15T10:00:00Z"  
}
```

## Create Offer

**Endpoint:** POST /admin/offers

**Auth Required:** Yes (Admin)

## Request Body:

```
{  
  "code": "WELCOME100",  
  "nameEn": "Welcome Discount",  
  "nameAr": "خصم الترحيب",  
  "type": "FIXED_AMOUNT",  
  "discountValue": 100,  
  "minCartValue": 500,  
  "maxDiscount": null,  
  "applyTo": "ALL",  
  "targetId": null,  
  "startDate": "2025-02-01T00:00:00Z",  
  "endDate": "2025-04-30T23:59:59Z",  
  "startTime": "00:00",  
  "endTime": "23:59",  
  "totalUsageLimit": 1000,  
  "perUserLimit": 5,  
  "currentUsage": 0,  
  "status": true,  
  "createdAt": "2025-02-01T10:00:00Z",  
  "updatedAt": "2025-02-01T10:00:00Z",  
  "isArchived": false  
}
```

```

    "endDate": "2025-12-31T23:59:59Z",
    "startTime": "00:00",
    "endTime": "23:59",
    "totalUsageLimit": 500,
    "perUserLimit": 1,
    "status": true
}

```

## Offer Types:

- PERCENTAGE - Percentage discount (discountValue = percentage)
- FIXED\_AMOUNT - Fixed amount off (discountValue = amount in EGP)
- BUNDLE - Bundle deal
- FREE SHIPPING - Free shipping

## Apply To Options:

- ALL - All products (targetId=null)
- CATEGORY - Specific category (provide targetId)
- SUB\_CATEGORY - Specific subcategory (provide targetId)
- PRODUCT\_LIST - Specific product list (provide targetId)
- PRODUCT\_TYPE - Specific product type (provide targetId)

## Field Requirements:

- code - Required, must be unique
- nameEn , nameAr - Required
- type - Required (enum)
- discountValue - Required, must be > 0
- minCartValue - Optional (minimum cart value to apply)
- maxDiscount - Optional (maximum discount amount)
- applyTo - Required (enum)
- targetId - Optional (required for specific scopes)
- startDate , endDate - Required (ISO format)
- startTime , endTime - Optional (HH:mm format)
- totalUsageLimit - Optional (total times offer can be used)
- perUserLimit - Optional (times per user)
- status - Optional, default: true

## Success Response:

```
{
    "id": "cm5off2",
    "code": "WELCOME100",
    "nameEn": "Welcome Discount",
    "nameAr": "خصم الترحيب",
    "type": "FIXED_AMOUNT",
    "discountValue": 100,
}
```

```
"minCartValue": 500,  
"maxDiscount": null,  
"applyTo": "ALL",  
"targetId": null,  
"startDate": "2025-02-01T00:00:00Z",  
"endDate": "2025-12-31T23:59:59Z",  
"startTime": "00:00",  
"endTime": "23:59",  
"totalUsageLimit": 500,  
"perUserLimit": 1,  
"currentUsage": 0,  
"status": true,  
"createdAt": "2025-02-08T18:00:00Z",  
"updatedAt": "2025-02-08T18:00:00Z"  
}
```

## Error Response:

```
{  
    "statusCode": 409,  
    "message": "Offer code already exists"  
}
```

## Update Offer

**Endpoint:** PUT /admin/offers/:id

**Auth Required:** Yes (Admin)

### URL Parameters:

- `id` - Offer ID

### Request Body (all fields optional except code cannot be changed):

```
{  
    "nameEn": "Updated Offer Name",  
    "discountValue": 30,  
    "status": false  
}
```

## Delete Offer

**Endpoint:** DELETE /admin/offers/:id

**Auth Required:** Yes (Admin)

## Success Response:

204 No Content

## Popup Offers

### Get All Popup Offers

**Endpoint:** GET /admin/offers/popup/all

**Auth Required:** Yes (Admin)

### Success Response:

```
[  
  {  
    "id": "cm5popup1",  
    "headlineEn": "WELCOME OFFER",  
    "headlineAr": "عرض الترحيب",  
    "subHeadlineEn": "Get 100 EGP OFF",  
    "subHeadlineAr": "احصل على خصم 100 جنيه",  
    "amount": 100,  
    "voucherCode": "WELCOME100",  
    "targetedUser": "first_time_customer",  
    "imageUrl": "/uploads/popups/welcome.jpg",  
    "startDate": "2025-01-01T00:00:00Z",  
    "endDate": "2025-12-31T23:59:59Z",  
    "status": true,  
    "createdAt": "2025-01-01T00:00:00Z",  
    "updatedAt": "2025-01-01T00:00:00Z"  
  }  
]
```

### Create Popup Offer

**Endpoint:** POST /admin/offers/popup

**Auth Required:** Yes (Admin)

### Request Body:

```
{  
  "headlineEn": "EXCLUSIVE DEAL",  
  "headlineAr": "صفقة حصرية",  
  "subHeadlineEn": "Save 200 EGP on your order",  
  "subHeadlineAr": "وفر 200 جنيه على طلبك",  
  "amount": 200,  
  "voucherCode": "EXCLUSIVE200",  
  "targetedUser": "all",  
  "imageUrl": "/uploads/popups/exclusive.jpg",  
  "startDate": "2025-02-01T00:00:00Z",  
  "endDate": "2025-02-28T23:59:59Z",  
  "status": true  
}
```

## Field Requirements:

- headlineEn , headlineAr - **Required**
- subHeadlineEn , subHeadlineAr - **Required**
- amount - **Required**, must be > 0
- voucherCode - **Required**
- targetedUser - **Required** (e.g., "first\_time\_customer", "all", "returning")
- imageUrl - **Optional**
- startDate , endDate - **Required** (ISO format)
- status - **Optional**, default: true

## Success Response:

```
{  
  "id": "cm5popup2",  
  "headlineEn": "EXCLUSIVE DEAL",  
  "headlineAr": "صفقة حصرية",  
  "subHeadlineEn": "Save 200 EGP on your order",  
  "subHeadlineAr": "وفر 200 جنيه على طلبك",  
  "amount": 200,  
  "voucherCode": "EXCLUSIVE200",  
  "targetedUser": "all",  
  "imageUrl": "/uploads/popups/exclusive.jpg",  
  "startDate": "2025-02-01T00:00:00Z",  
  "endDate": "2025-02-28T23:59:59Z",  
  "status": true,  
  "createdAt": "2025-02-08T18:30:00Z",  
  "updatedAt": "2025-02-08T18:30:00Z"  
}
```

## Update Popup Offer

**Endpoint:** PUT /admin/offers/popup/:id

**Auth Required:** Yes (Admin)

## URL Parameters:

- id - Popup Offer ID

## Request Body (all fields optional):

```
{  
  "headlineEn": "Updated Headline",  
  "amount": 250,  
  "status": false  
}
```

## Delete Popup Offer

**Endpoint:** DELETE /admin/offers/popup/:id

**Auth Required:** Yes (Admin)

**Success Response:**

```
204 No Content
```

## Admin Dashboard

### Get Dashboard Overview

**Endpoint:** GET /admin/dashboard/overview

**Auth Required:** Yes (Admin)

**Description:** Get comprehensive dashboard metrics, charts, and statistics.

**Success Response:**

```
{
  "metrics": {
    "totalProducts": 120,
    "activeOrders": 45,
    "totalCustomers": 350,
    "totalEarnings": 125000,
    "previousPeriodComparison": {
      "products": 8.5,
      "orders": 12.3,
      "customers": 5.2,
      "earnings": 15.7
    }
  },
  "charts": {
    "totalOrdersSeries": [
      { "date": "2025-02-01", "count": 12 },
      { "date": "2025-02-02", "count": 15 },
      { "date": "2025-02-03", "count": 18 },
      { "date": "2025-02-04", "count": 14 },
      { "date": "2025-02-05", "count": 20 },
      { "date": "2025-02-06", "count": 17 },
      { "date": "2025-02-07", "count": 22 }
    ],
    "totalProfitSeries": [
      { "date": "2025-02-01", "profit": 5400 },
      { "date": "2025-02-02", "profit": 6200 },
      { "date": "2025-02-03", "profit": 7100 },
      { "date": "2025-02-04", "profit": 5800 },
      { "date": "2025-02-05", "profit": 8300 },
      { "date": "2025-02-06", "profit": 7200 },
      { "date": "2025-02-07", "profit": 9100 }
    ],
    "discountedAmountSeries": [
      ...
    ]
  }
}
```

```
{ "date": "2025-02-01", "discount": 850 },
{ "date": "2025-02-02", "discount": 920 },
{ "date": "2025-02-03", "discount": 1100 },
{ "date": "2025-02-04", "discount": 780 },
{ "date": "2025-02-05", "discount": 1350 },
{ "date": "2025-02-06", "discount": 980 },
{ "date": "2025-02-07", "discount": 1450 }
]
},
"topSellingCategories": [
{
  "name": "Men",
  "value": 450,
  "percentage": 45.2
},
{
  "name": "Women",
  "value": 320,
  "percentage": 32.1
},
{
  "name": "Accessories",
  "value": 226,
  "percentage": 22.7
}
],
"bestSellingProducts": [
{
  "id": "cm5prod123",
  "name": "BOUNCE SPORT RUNNING SHOES",
  "sku": "364U0w2",
  "totalOrders": 45,
  "stockStatus": "In Stock",
  "image": "/uploads/products/bounce-1.jpg"
},
{
  "id": "cm5prod456",
  "name": "Nike Air Max",
  "sku": "364U0w6",
  "totalOrders": 38,
  "stockStatus": "Low Stock",
  "image": "/uploads/products/nike-1.jpg"
},
{
  "id": "cm5prod789",
  "name": "AlAhly 2025 Jersey",
  "sku": "364U0w8",
  "totalOrders": 32,
  "stockStatus": "In Stock",
  "image": "/uploads/products/jersey-1.jpg"
}
]
```

## Notes:

- Metrics show current period vs previous 7 days
  - Chart series show last 7 days of data
  - Top selling categories limited to top 3
  - Best selling products limited to top 5
  - All monetary values in EGP
- 

## Get Recent Activity

**Endpoint:** GET /admin/dashboard/recent-activity

**Auth Required:** Yes (Admin)

**Description:** Get recent orders, customers, and low stock alerts.

### Success Response:

```
{
  "recentOrders": [
    {
      "id": "cm5order999",
      "orderNumber": "#998877",
      "customerName": "Ahmed Hassan",
      "total": 2450,
      "status": "ORDER_PLACED",
      "createdAt": "2025-02-08T19:00:00Z"
    },
    {
      "id": "cm5order998",
      "orderNumber": "#998876",
      "customerName": "Sara Mohamed",
      "total": 1850,
      "status": "PROCESSED",
      "createdAt": "2025-02-08T18:45:00Z"
    }
    // ... up to 5 recent orders
  ],
  "recentCustomers": [
    {
      "id": "cm5cust999",
      "fullName": "Mohamed Ali",
      "email": "mohamed@example.com",
      "createdAt": "2025-02-08T18:30:00Z"
    },
    {
      "id": "cm5cust998",
      "fullName": "Fatima Ahmed",
      "email": "fatima@example.com",
      "createdAt": "2025-02-08T17:20:00Z"
    }
    // ... up to 5 recent customers
  ]
}
```

```

] ,
"lowStockProducts": [
  {
    "id": "cm5prod888",
    "name": "Adidas Ultraboost",
    "sku": "ADI999",
    "totalStock": 5
  },
  {
    "id": "cm5prod887",
    "name": "Puma RS-X",
    "sku": "PUM888",
    "totalStock": 3
  }
  // ... up to 5 low stock products
]
}

```

## Notes:

- Recent orders: last 5 orders
- Recent customers: last 5 registered customers
- Low stock products: products with total stock ≤ 10

## File Upload

**All upload endpoints require admin authentication.**

### Upload Product Image (Single)

**Endpoint:** POST /upload/product-image

**Auth Required:** Yes (Admin)

**Content-Type:** multipart/form-data

#### Request:

```

POST /upload/product-image
Content-Type: multipart/form-data

file: [binary image data]

```

#### Success Response:

```

{
  "url": "/uploads/products/1707408234567-a1b2c3d4e5f6.jpg"
}

```

**Supported Formats:** JPEG, JPG, PNG, WEBP, GIF

**Max Size:** 5MB

---

## Upload Product Images (Multiple)

**Endpoint:** POST /upload/product-images

**Auth Required:** Yes (Admin)

**Content-Type:** multipart/form-data

### Request:

```
POST /upload/product-images
Content-Type: multipart/form-data

files: [multiple binary image data]
```

### Success Response:

```
{
  "urls": [
    "/uploads/products/1707408234567-a1b2c3d4e5f6.jpg",
    "/uploads/products/1707408234568-b2c3d4e5f6g7.jpg",
    "/uploads/products/1707408234569-c3d4e5f6g7h8.jpg"
  ]
}
```

---

## Upload Hero Image

**Endpoint:** POST /upload/hero-image

**Auth Required:** Yes (Admin)

**Content-Type:** multipart/form-data

### Success Response:

```
{
  "url": "/uploads/heroes/1707408234567-a1b2c3d4e5f6.jpg"
}
```

---

## Upload Banner Image

**Endpoint:** POST /upload/banner-image

**Auth Required:** Yes (Admin)

**Content-Type:** multipart/form-data

### Success Response:

```
{  
    "url": "/uploads/banners/1707408234567-a1b2c3d4e5f6.jpg"  
}
```

## Upload Vendor Logo

**Endpoint:** POST /upload/vendor-logo

**Auth Required:** Yes (Admin)

**Content-Type:** multipart/form-data

### Success Response:

```
{  
    "url": "/uploads/vendors/1707408234567-a1b2c3d4e5f6.jpg"  
}
```

## Upload Category Icon

**Endpoint:** POST /upload/category-icon

**Auth Required:** Yes (Admin)

**Content-Type:** multipart/form-data

### Success Response:

```
{  
    "url": "/uploads/categories/1707408234567-a1b2c3d4e5f6.jpg"  
}
```

## Upload Custom Order Images

**Endpoint:** POST /upload/custom-order-images

**Auth Required:** Yes (Admin)

**Content-Type:** multipart/form-data

### Success Response:

```
{  
    "urls": [  
        "/uploads/custom-orders/1707408234567-a1b2c3d4e5f6.jpg",  
        "/uploads/custom-orders/1707408234568-b2c3d4e5f6g7.jpg"  
    ]  
}
```

# ⚠ Error Responses

## Common Error Codes

### 400 Bad Request

```
{  
  "statusCode": 400,  
  "message": "Validation failed",  
  "error": "Bad Request"  
}
```

### 401 Unauthorized

```
{  
  "statusCode": 401,  
  "message": "Invalid or expired token"  
}
```

### 403 Forbidden

```
{  
  "statusCode": 403,  
  "message": "Access Denied: Insufficient Permissions"  
}
```

### 404 Not Found

```
{  
  "statusCode": 404,  
  "message": "Product not found"  
}
```

### 409 Conflict

```
{  
  "statusCode": 409,  
  "message": "SKU already exists"  
}
```

### 500 Internal Server Error

```
{  
  "statusCode": 500,  
  "message": "Internal server error"  
}
```

# Enums & Constants

## Gender

```
enum Gender {  
    UNISEX = "UNISEX",  
    MEN = "MEN",  
    WOMEN = "WOMEN",  
    KIDS = "KIDS"  
}
```

## Product Status

```
enum ProductStatus {  
    PUBLISHED = "PUBLISHED",  
    UNPUBLISHED = "UNPUBLISHED",  
    DRAFT = "DRAFT"  
}
```

## Order Status

```
enum OrderStatus {  
    ORDER_PLACED = "ORDER_PLACED",  
    PROCESSED = "PROCESSED",  
    SHIPPED = "SHIPPED",  
    DELIVERED = "DELIVERED",  
    CANCELLED = "CANCELLED"  
}
```

## Customer Status

```
enum CustomerStatus {  
    ACTIVE = "ACTIVE",  
    BLOCKED = "BLOCKED"  
}
```

## Offer Type

```
enum OfferType {  
    PERCENTAGE = "PERCENTAGE",  
    FIXED_AMOUNT = "FIXED_AMOUNT",  
    BUNDLE = "BUNDLE",  
    FREE_SHIPPING = "FREE_SHIPPING"  
}
```

## Offer Scope

---

```
enum OfferScope {  
    ALL = "ALL",  
    CATEGORY = "CATEGORY",  
    SUB_CATEGORY = "SUB_CATEGORY",  
    PRODUCT_LIST = "PRODUCT_LIST",  
    PRODUCT_TYPE = "PRODUCT_TYPE"  
}
```

## Sort By

---

```
enum SortBy {  
    FEATURED = "featured",  
    BEST_SELLING = "best-selling",  
    A_Z = "a-z",  
    Z_A = "z-a",  
    PRICE_LOW = "price-low",  
    PRICE_HIGH = "price-high",  
    DATE_OLD = "date-old",  
    DATE_NEW = "date-new"  
}
```

## Notes & Best Practices

---

### Authentication

---

- Customer tokens expire in 7 days (configurable)
- Admin tokens expire in 7 days (configurable)
- Always include `Authorization: Bearer {token}` header for protected routes
- Tokens are automatically validated by JWT middleware

### Pagination

---

- Default page size: 20 items
- Maximum page size: 100 items
- Page numbers start at 1
- Total count and total pages included in response

### Filtering & Sorting

---

- Multiple filters can be combined
- Filters use AND logic
- Case-insensitive search

- Sorting maintains filter context

## File Uploads

---

- All uploads require admin authentication
- Supported formats: JPEG, JPG, PNG, WEBP, GIF
- Maximum file size: 5MB
- Files auto-renamed with timestamp + random hash
- URLs returned are relative paths

## Stock Management

---

- Stock decremented atomically on order creation
- Stock validation happens twice: before transaction & inside transaction
- Race conditions prevented by transaction locking
- Low stock threshold:  $\leq 10$  units

## Order Processing

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- Guest checkout auto-creates customer account
- Orders cannot be deleted if customer has order history
- Status changes create automatic history entries
- Delivery date auto-set when status = DELIVERED

## Data Consistency

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- SKU must be unique across all products
- Category hierarchy: Category → SubCategory → ProductList
- Cannot delete parent entities if children exist
- Cannot delete products/customers with order history

## Localization

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- All content has English (En) and Arabic (Ar) versions
- Language switching handled client-side
- Server stores both languages in same record

## Additional Resources

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- **Postman Collection:** Import `openapi.json` for complete API collection
- **Database Schema:** See `schema.prisma` for complete data model
- **Sample Data:** Run seed script to populate test data
- **Environment Variables:** Configure JWT secret, database URL, OTP settings

**Last Updated:** February 8, 2025

**API Version:** 1.0

**Base URL:** <http://localhost:4000/api> (development)