

Complete API Guide for Frontend Developers

Base URL

<http://localhost:5000/api>

Authentication

- All protected routes require a JWT token
- Include token in the Authorization header:

Authorization: Bearer <your_token>

- Get your token by logging in via /api/users/login

User APIs

Register User

- **URL:** /users/register
- **Method:** POST
- **Auth Required:** No
- **Body:**

```
{  
  "Firstname": "John",  
  "Lastname": "Doe",  
  "sex": "Male",  
  "email": "john@example.com",  
  "password": "password123",  
  "phone_number": "1234567890",  
  "address": "123 Main St"  
}
```

- **Response:** User object with token

Login User

- **URL:** /users/login
- **Method:** POST
- **Auth Required:** No
- **Body:**

```
{  
  "email": "john@example.com",  
  "password": "password123"  
}
```
- **Response:** User object with token (includes role)

Get User Profile

- **URL:** /users/profile
- **Method:** GET
- **Auth Required:** Yes
- **Response:** User profile data

Update User Profile

- **URL:** /users/profile
- **Method:** PUT
- **Auth Required:** Yes
- **Body:** Fields to update
- **Response:** Updated user profile

Admin: Get All Users

- **URL:** [users](#)
- **Method:** GET
- **Auth Required:** Yes (Admin only)
- **Response:** Array of all users

Admin: Get User by ID

- **URL:** /users/:id
- **Method:** GET
- **Auth Required:** Yes (Admin only)
- **Response:** User object

Admin: Update User

- **URL:** /users/:id
- **Method:** PUT
- **Auth Required:** Yes (Admin only)
- **Body:** Fields to update
- **Response:** Updated user object

Admin: Delete User

- **URL:** /users/:id
- **Method:** DELETE
- **Auth Required:** Yes (Admin only)
- **Response:** Success message

Admin: Promote User to Admin

- **URL:** /users/:id/promote
- **Method:** PUT
- **Auth Required:** Yes (Admin only)
- **Response:** Updated user with admin role

Product APIs

Get All Products

- **URL:** /products
- **Method:** GET
- **Auth Required:** No
- **Query Parameters:**

- keyword: Search term
 - category: Filter by category
 - page: Page number
 - limit: Items per page
- **Response:** Products list with pagination

Get Product by ID

- **URL:** /products/:id
- **Method:** GET
- **Auth Required:** No
- **Response:** Product details

Admin: Create Product

- **URL:** /products
- **Method:** POST
- **Auth Required:** Yes (Admin only)
- **Body:** Product details
- **Response:** Created product

Admin: Update Product

- **URL:** /products/:id
- **Method:** PUT
- **Auth Required:** Yes (Admin only)
- **Body:** Fields to update
- **Response:** Updated product

Admin: Delete Product

- **URL:** /products/:id
- **Method:** DELETE
- **Auth Required:** Yes (Admin only)

- **Response:** Success message

Category APIs

Get All Categories

- **URL:** /categories
- **Method:** GET
- **Auth Required:** No
- **Response:** List of categories

Get Category by ID

- **URL:** /categories/:id
- **Method:** GET
- **Auth Required:** No
- **Response:** Category details

Admin: Create Category

- **URL:** /categories
- **Method:** POST
- **Auth Required:** Yes (Admin only)
- **Body:** Category details
- **Response:** Created category

Admin: Update Category

- **URL:** /categories/:id
- **Method:** PUT
- **Auth Required:** Yes (Admin only)
- **Body:** Fields to update
- **Response:** Updated category

Admin: Delete Category

- **URL:** /categories/:id

- **Method:** DELETE
- **Auth Required:** Yes (Admin only)
- **Response:** Success message

Wishlist APIs

Get User Wishlist

- **URL:** /wishlist
- **Method:** GET
- **Auth Required:** Yes
- **Response:** User's wishlist items

Add to Wishlist

- **URL:** /wishlist
- **Method:** POST
- **Auth Required:** Yes
- **Body:**

```
{  
  "productId": "product_id_here"  
}
```
- **Response:** Updated wishlist

Remove from Wishlist

- **URL:** /wishlist/:productId
- **Method:** DELETE
- **Auth Required:** Yes
- **Response:** Updated wishlist

Cart APIs

Get User Cart

- **URL:** /cart

- **Method:** GET
- **Auth Required:** Yes
- **Response:** User's cart items

Add to Cart

- **URL:** /cart
- **Method:** POST
- **Auth Required:** Yes
- **Body:**

```
{  
  "productId": "product_id_here",  
  "quantity": 1,  
  "variantId": "variant_id_if_applicable"  
}
```
- **Response:** Updated cart

Update Cart Item

- **URL:** /cart/:itemId
- **Method:** PUT
- **Auth Required:** Yes
- **Body:**

```
{  
  "quantity": 2  
}
```
- **Response:** Updated cart

Remove from Cart

- **URL:** /cart/:itemId
- **Method:** DELETE

- **Auth Required:** Yes
- **Response:** Updated cart

Order APIs

Create Order

- **URL:** /orders
- **Method:** POST
- **Auth Required:** Yes
- **Body:**

```
{  
  "orderItems": [  
    {  
      "product": "product_id",  
      "quantity": 1,  
      "variant": "variant_id_if_applicable"  
    }  
  ],  
  "shippingAddress": "address_id",  
  "paymentMethod": "method_id",  
  "itemsPrice": 100.0,  
  "shippingPrice": 10.0,  
  "totalPrice": 110.0  
}
```
- **Response:** Created order

Get Order by ID

- **URL:** /orders/:id
- **Method:** GET

- **Auth Required:** Yes
- **Response:** Order details

Get My Orders

- **URL:** /orders/myorders
- **Method:** GET
- **Auth Required:** Yes
- **Response:** List of user's orders

Admin: Get All Orders

- **URL:** /orders
- **Method:** GET
- **Auth Required:** Yes (Admin only)
- **Response:** All orders

Admin: Update Order to Paid

- **URL:** /orders/:id/pay
- **Method:** PUT
- **Auth Required:** Yes
- **Body:** Payment result
- **Response:** Updated order

Admin: Update Order to Delivered

- **URL:** /orders/:id/deliver
- **Method:** PUT
- **Auth Required:** Yes (Admin only)
- **Response:** Updated order

Address APIs

Add Address

- **URL:** /addresses

- **Method:** POST
- **Auth Required:** Yes
- **Body:**

```
{  
  "user": "user_id",  
  "address": "123 Main St",  
  "ville": "City",  
  "country": "Country",  
  "code_postal": "12345",  
  "phone_number": "1234567890"  
}
```
- **Response:** Created address

Get Address by ID

- **URL:** /addresses/:id
- **Method:** GET
- **Auth Required:** Yes
- **Response:** Address details

Update Address

- **URL:** /addresses/:id
- **Method:** PUT
- **Auth Required:** Yes
- **Body:** Fields to update
- **Response:** Updated address

Delete Address

- **URL:** /addresses/:id
- **Method:** DELETE

- **Auth Required:** Yes
- **Response:** Success message

Admin: Get All Addresses

- **URL:** /addresses
- **Method:** GET
- **Auth Required:** Yes (Admin only)
- **Response:** All addresses

Product Variant APIs

Get Variants by Product

- **URL:** /variants/product/:productId
- **Method:** GET
- **Auth Required:** No
- **Response:** List of product variants

Admin: Create Variant

- **URL:** /variants
- **Method:** POST
- **Auth Required:** Yes (Admin only)
- **Body:**

```
{  
  "product": "product_id",  
  "name": "Color",  
  "value": "Red",  
  "price": 19.99,  
  "countInStock": 10
```

- **Response:** Created variant

Admin: Update Variant

- **URL:** /variants/:id
- **Method:** PUT
- **Auth Required:** Yes (Admin only)
- **Body:** Fields to update
- **Response:** Updated variant

Admin: Delete Variant

- **URL:** /variants/:id
- **Method:** DELETE
- **Auth Required:** Yes (Admin only)
- **Response:** Success message

Review APIs

Create Product Review

- **URL:** /reviews
- **Method:** POST
- **Auth Required:** Yes
- **Body:**

```
{  
  "product": "product_id",  
  "rating": 5,  
  "comment": "Great product!"  
}
```

- **Response:** Created review

Get Reviews for Product

- **URL:** /reviews/product/:productId
- **Method:** GET

- **Auth Required:** No
- **Response:** List of reviews

Delete Review

- **URL:** /reviews/:id
- **Method:** DELETE
- **Auth Required:** Yes
- **Response:** Success message

Payment APIs

Process Payment

- **URL:** /payment/process
- **Method:** POST
- **Auth Required:** Yes
- **Body:**

```
{  
  "orderId": "order_id",  
  "paymentMethod": "method",  
  "paymentDetails": {}  
}
```
- **Response:** Payment confirmation

Get Payment Status

- **URL:** /payment/:paymentId
- **Method:** GET
- **Auth Required:** Yes
- **Response:** Payment status