

MPRIMO API Documentation

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Authentication APIs

Base URL: /api/auth

1. User Registration

Endpoint: POST /register

Rate Limit: 3 requests per IP per day

Description: Register a new personal user account

Request Body:

```
{  
  "email": "user@example.com",  
  "password": "SecurePass123",  
  "firstName": "John",  
  "lastName": "Doe",  
  "phoneNumber": "+1234567890"  
}
```

Response (201):

```
{
  "message": "User created successfully",
  "user": {
    "_id": "userId",
    "email": "user@example.com",
    "profile": {
      "firstName": "John",
      "lastName": "Doe",
      "phoneNumber": "+1234567890",
      "avatar": "default_avatar_url"
    },
    "role": "personal",
    "status": "active",
    "country": "US",
    "preferences": {
      "language": "en",
      "currency": "USD",
      "notifications": {...}
    }
  },
  "cryptoWallet": {
    "address": "wallet_address",
    "balance": 0
  },
  "fiatWallet": {
    "currency": "USD",
    "balance": 0
  }
}
```

2. Vendor Registration

Endpoint: POST /register-vendor

Description: Register a new business/vendor account

Request Body:

```
{
  "businessEmail": "business@example.com",
  "password": "SecurePass123",
  "businessName": "My Business",
  "country": "United States",
  "street": "123 Business St",
  "city": "Business City",
  "state": "Business State",
  "postalCode": "12345"
}
```

Response (201):

```
{  
  "message": "Business created successfully. Please proceed with verification",  
  "user": {  
    "_id": "userId",  
    "email": "business@example.com",  
    "businessName": "My Business",  
    "role": "business",  
    "vendor": {  
      "_id": "vendorId",  
      "accountType": "business",  
      "businessInfo": {...}  
    }  
  },  
  "onboardingLink": "stripe_onboarding_url",  
  "accountId": "stripe_account_id"  
}
```

3. Login**Endpoint:** POST /login**Description:** Authenticate user and get access token**Request Body:**

```
{  
  "email": "user@example.com",  
  "password": "SecurePass123"  
}
```

Response (200):

```
{  
  "message": "Logged in successfully!",  
  "success": true,  
  "token": "jwt_access_token",  
  "user": {  
    "_id": "userId",  
    "email": "user@example.com",  
    "role": "personal"  
  },  
  "vendor": null,  
  "has2faEnabled": false,  
  "requires2FA": true  
}
```

4. Email Verification

Endpoint: POST /verify

Description: Verify email with 6-digit code

Request Body:

```
{  
  "code": "123456"  
}
```

Response (200):

```
{  
  "success": true,  
  "message": "Email verified successfully",  
  "user": {  
    "_id": "userId",  
    "email": "user@example.com",  
    "isEmailVerified": true  
  }  
}
```

5. Resend Verification Code

Endpoint: POST /resend-verification

Request Body:

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

6. Forgot Password

Endpoint: POST /forgot-password

Rate Limit: 3 requests per hour

Request Body:

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

7. Reset Password

Endpoint: POST /reset-password

Rate Limit: 3 requests per hour

Request Body:

```
{  
  "email": "user@example.com",  
  "newPassword": "NewSecurePass123"  
}
```

8. Refresh Token

Endpoint: POST /refresh

Description: Get new access token using refresh token

Response (200):

```
{  
  "success": true,  
  "accessToken": "new_jwt_token"  
}
```

9. Logout

Endpoint: POST /logout

Authentication: Required

Response (200):

```
{  
  "message": "Logged out successfully"  
}
```

10. Google OAuth

Endpoint: GET /google

Description: Initiate Google OAuth flow

Endpoint: GET /google/callback

Description: Google OAuth callback

User Management APIs

Base URL: /api/users

1. Get User Profile

Endpoint: GET /profile

Authentication: Required

Response (200):

```
{  
  "user": {  
    "_id": "userId",  
    "email": "user@example.com",  
    "profile": {  
      "firstName": "John",  
      "lastName": "Doe",  
      "phoneNumber": "+1234567890",  
      "avatar": "avatar_url"  
    },  
    "preferences": {...},  
    "activity": {...}  
  }  
}
```

2. Get User Orders

Endpoint: GET /orders

Authentication: Required

Query Parameters:

- `page` (optional): Page number (default: 1)
- `limit` (optional): Items per page (default: 10)
- `status` (optional): Order status filter

Response (200):

```
{  
  "orders": [  
    {  
      "_id": "orderId",  
      "orderNumber": "ORD-123456",  
      "status": "delivered",  
      "totalAmount": 99.99,  
      "items": [...],  
      "createdAt": "2024-01-01T00:00:00Z"  
    }  
  ],  
  "pagination": {  
    "currentPage": 1,  
    "totalPages": 5,  
    "totalItems": 50  
  }  
}
```

3. Address Management

Add Address: Endpoint: POST /address

Authentication: Required

Request Body:

```
{  
  "type": "home",  
  "street": "123 Main St",  
  "city": "City",  
  "state": "State",  
  "postalCode": "12345",  
  "country": "US",  
  "isDefault": true  
}
```

Get Addresses: Endpoint: GET /address

Authentication: Required

Update Address: Endpoint: PATCH /address

Authentication: Required

Request Body:

```
{
  "addressId": "addressId",
  "street": "456 New St",
  "city": "New City"
}
```

Delete Address: Endpoint: `DELETE /address`

Authentication: Required

Request Body:

```
{
  "addressId": "addressId"
}
```

4. Notification Management

Get Notifications: Endpoint: `GET /notifications`

Authentication: Required

Update Notification Preferences: Endpoint: `PATCH /notifications/preferences`

Authentication: Required

Request Body:

```
{
  "email": {
    "stockAlert": true,
    "orderStatus": true,
    "newsletter": false
  },
  "push": true,
  "sms": false
}
```

5. User Activity

Get Recent Views: Endpoint: `GET /recent-views`

Authentication: Required

Get Recommendations: Endpoint: `GET /recommendations`

Authentication: Required

6. Payment Cards

Add Card: Endpoint: `POST /card`

Authentication: Required

Request Body:

```
{  
  "stripePaymentMethodId": "pm_123456789"  
}
```

Set Default Card: Endpoint: PATCH /card**Authentication:** Required**Request Body:**

```
{  
  "last4": "4242"  
}
```

Remove Card: Endpoint: DELETE /card/:last4**Authentication:** Required

Product APIs

Base URL: [/api/products](#)

1. Get All Products

Endpoint: GET /**Query Parameters:**

- `page` (optional): Page number
- `limit` (optional): Items per page
- `category` (optional): Category filter
- `minPrice` (optional): Minimum price
- `maxPrice` (optional): Maximum price
- `sort` (optional): Sort by (price, rating, date)
- `order` (optional): asc/desc

Response (200):

```
{  
  "products": [  
    {  
      "_id": "productId",  
      "name": "Product Name",  
      "description": "Product description",  
      "price": 99.99,  
      "images": ["image1.jpg", "image2.jpg"],  
      "category": "categoryId",  
      "vendor": "vendorId",  
      "rating": 4.5,  
      "reviewCount": 25,  
      "inStock": true,  
      "variants": [...]  
    }  
,  
    "pagination": {...}  
  ]  
}
```

2. Search Products

Endpoint: GET /search

Query Parameters:

- `q` : Search query
- `category` (optional): Category filter
- `minPrice` (optional): Minimum price
- `maxPrice` (optional): Maximum price

3. Get Product by ID

Endpoint: GET /:id

Response (200):

```
{  
  "product": {  
    "_id": "productId",  
    "name": "Product Name",  
    "description": "Detailed product description",  
    "price": 99.99,  
    "images": ["image1.jpg"],  
    "category": {  
      "_id": "categoryId",  
      "name": "Category Name"  
    },  
    "vendor": {  
      "_id": "vendorId",  
      "businessName": "Vendor Name"  
    },  
    "specifications": {...},  
    "variants": [...],  
    "reviews": [...],  
    "rating": 4.5,  
    "reviewCount": 25  
  }  
}
```

4. Get Product by Slug

Endpoint: GET /slug/:slug

5. Get Products by Category

Endpoint: GET /category/:categoryId

6. Get Top Products

Endpoint: GET /topProducts

7. Get Best Deals

Endpoint: GET /best-deals

8. Get Featured Products

Endpoint: GET /featured

9. Get Auction Products

Endpoint: GET /auctions

10. Get Related Products

Endpoint: GET /:id/related

11. Create Product (Vendor/Admin Only)

Endpoint: POST /

Authentication: Required

Authorization: business, admin

Request Body:

```
{  
  "name": "New Product",  
  "description": "Product description",  
  "price": 99.99,  
  "category": "categoryId",  
  "images": ["image1.jpg", "image2.jpg"],  
  "specifications": {  
    "brand": "Brand Name",  
    "model": "Model X"  
  },  
  "variants": [  
    {  
      "name": "Size",  
      "options": [  
        {  
          "value": "Small",  
          "price": 99.99,  
          "sku": "PROD-S",  
          "quantity": 10  
        }  
      ]  
    }  
  ],  
  "inventory": {  
    "quantity": 100,  
    "lowStockThreshold": 10  
  }  
}
```

12. Update Product

Endpoint: PUT /:id

Authentication: Required

Authorization: business, admin

13. Delete Product

Endpoint: DELETE /:id

Authentication: Required

Authorization: business, admin

14. Update Inventory

Endpoint: PATCH /:id/inventory

Authentication: Required

Authorization: business, admin

Request Body:

```
{  
  "quantity": 50,  
  "lowStockThreshold": 5  
}
```

15. Add Product Variant

Endpoint: POST /:id/variants

Authentication: Required

Authorization: business, admin

16. Get Product Reviews

Endpoint: GET /:id/reviews

17. Add Product Review

Endpoint: POST /:id/reviews

Authentication: Required

Request Body:

```
{  
  "rating": 5,  
  "comment": "Great product!",  
  "images": ["review_image.jpg"]  
}
```

Cart & Wishlist APIs

Base URL: /api/products

1. Cart Management

Get Cart: Endpoint: GET /cart/user

Authentication: Required

Response (200):

```
{  
  "cart": [  
    {  
      "productId": "productId",  
      "variantId": "variantId",  
      "optionId": "optionId",  
      "quantity": 2,  
      "price": 99.99,  
      "name": "Product Name",  
      "images": ["image.jpg"],  
      "addedAt": "2024-01-01T00:00:00Z"  
    }  
  ]  
}
```

Add to Cart: Endpoint: POST /cart**Authentication:** Required**Request Body:**

```
{  
  "productId": "productId",  
  "variantId": "variantId",  
  "optionId": "optionId",  
  "quantity": 1  
}
```

Remove from Cart: Endpoint: DELETE /cart/:productId**Authentication:** Required**Clear Cart: Endpoint:** DELETE /cart/clear**Authentication:** Required**Merge Cart: Endpoint:** POST /cart/merge**Authentication:** Required

2. Wishlist Management

Get Wishlist: Endpoint: GET /wishlist/user**Authentication:** Required**Add to Wishlist: Endpoint:** POST /wishlist/:productId**Authentication:** Required**Remove from Wishlist: Endpoint:** DELETE /wishlist/:productId**Authentication:** Required

Clear Wishlist: Endpoint: DELETE /wishlist/clear**Authentication:** Required

Order APIs

Base URL: /api/orders

1. Create Order

Endpoint: POST /**Authentication:** Required**Request Body:**

```
{
  "items": [
    {
      "productId": "productId",
      "variantId": "variantId",
      "quantity": 2,
      "price": 99.99
    }
  ],
  "shippingAddress": {
    "street": "123 Main St",
    "city": "City",
    "state": "State",
    "postalCode": "12345",
    "country": "US"
  },
  "paymentMethod": "stripe",
  "paymentIntentId": "pi_123456789"
}
```

Response (201):

```
{
  "order": {
    "_id": "orderId",
    "orderNumber": "ORD-123456",
    "status": "pending",
    "totalAmount": 199.98,
    "items": [...],
    "shippingAddress": {...},
    "createdAt": "2024-01-01T00:00:00Z"
  }
}
```

2. Get Order by ID

Endpoint: GET /:orderId

Authentication: Required

3. Get All Orders (Admin Only)

Endpoint: GET /

Authentication: Required

Authorization: admin

4. Get Vendor Orders

Endpoint: GET /vendors/:vendorId

Authentication: Required

Authorization: business, admin

5. Update Shipping Address

Endpoint: PATCH /:id/shipping

Authentication: Required

Request Body:

```
{
  "shippingAddress": {
    "street": "456 New St",
    "city": "New City",
    "state": "New State",
    "postalCode": "54321",
    "country": "US"
  }
}
```

6. Cancel Order

Endpoint: PATCH /:orderId/cancel

Authentication: Required

7. Update Order Status

Endpoint: PATCH /:orderId/status

Authentication: Required

Authorization: business, admin

Request Body:

```
{  
  "status": "shipped",  
  "trackingNumber": "TRACK123456"  
}
```

8. Get Order Statistics (Admin)

Endpoint: GET /stats/all

Authentication: Required

Authorization: admin

9. Get Vendor Order Metrics

Endpoint: GET /:vendorId/metrics

Authentication: Required

Authorization: business, admin

Payment APIs

Base URL: /api/payments

1. Crypto Wallet Management

Create Crypto Wallet: Endpoint: POST /wallet/create

Authentication: Required

Get User Wallet: Endpoint: GET /wallet

Authentication: Required

Get Balance: Endpoint: POST /balance

Authentication: Required

Request Body:

```
{
  "address": "wallet_address"
}
```

2. Payment Processing

Get Payment Address: Endpoint: GET /address/:orderId

Authentication: Required

Verify Payment: Endpoint: POST /verify

Authentication: Required

Request Body:

```
{
  "orderId": "orderId",
  "transactionHash": "tx_hash"
}
```

3. Stripe Integration

Create Payment Intent: Endpoint: POST /stripe/intent

Authentication: Required

Request Body:

```
{
  "amount": 9999,
  "currency": "usd",
  "orderId": "orderId"
}
```

Process Stripe Payment: Endpoint: POST /stripe/process

Authentication: Required

Request Body:

```
{
  "paymentIntentId": "pi_123456789",
  "orderId": "orderId"
}
```

Stripe Webhook: Endpoint: POST /stripe/webhook

Description: Webhook endpoint for Stripe events

4. Apple Pay

Create Apple Pay Session: Endpoint: POST /apple-pay/session

Process Apple Pay Payment: Endpoint: POST /apple-pay/process

Authentication: Required

Checkout APIs

Base URL: /api/checkout

1. Validate Cart

Endpoint: POST /validate

Authentication: Required

Request Body:

```
{  
  "items": [  
    {  
      "productId": "productId",  
      "variantId": "variantId",  
      "quantity": 2  
    }  
  ],  
  "shippingAddress": {  
    "country": "US",  
    "state": "CA",  
    "city": "Los Angeles"  
  }  
}
```

Response (200):

```
{  
  "valid": true,  
  "summary": {  
    "subtotal": 199.98,  
    "shipping": 9.99,  
    "tax": 18.00,  
    "total": 227.97  
  },  
  "items": [...],  
  "shippingOptions": [...]  
}
```

2. Create Payment Intent

Endpoint: POST /payment-intent

Authentication: Required

Request Body:

```
{  
  "items": [...],  
  "shippingAddress": {...},  
  "paymentMethod": "stripe"  
}
```

Vendor APIs

Base URL: /api/vendors

1. Upload Document

Endpoint: POST /upload-document

Authentication: Required

Content-Type: multipart/form-data

Form Data:

- document : File upload
- documentType : string (e.g., "business_license", "tax_id")

2. Advertisement Management

Create Advertisement: Endpoint: POST /advertisements

Authentication: Required

Content-Type: multipart/form-data

Form Data:

- image : File upload
- title : string
- description : string
- targetUrl : string
- budget : number

Get Vendor Advertisements: Endpoint: GET /advertisements

Authentication: Required

3. Get Vendor Usage

Endpoint: GET /usage

Authentication: Required

Response (200):

```
{  
  "usage": {  
    "productsListed": 25,  
    "ordersReceived": 150,  
    "totalRevenue": 15000.00,  
    "subscriptionTier": "premium"  
  }  
}
```

Admin APIs

Base URL: /api/admin

1. Order Management

Get All Orders: Endpoint: GET /orders

Authentication: Required

Authorization: VIEW_TRANSACTIONS permission

Get Order Statistics: Endpoint: GET /orders/stats

Authentication: Required

Authorization: VIEW_REPORTS permission

2. User Management

Get All Users: Endpoint: GET /users

Authentication: Required

Authorization: FULL_ACCESS permission

Get User Statistics: Endpoint: GET /users/stats

Authentication: Required

Authorization: VIEW_REPORTS permission

3. Vendor Management

Accept Vendor Application: Endpoint: PATCH /vendors/:vendorId/accept

Authentication: Required

Authorization: MANAGE_VENDORS permission

Reject Vendor Application: Endpoint: PATCH /vendors/:vendorId/reject

Authentication: Required

Authorization: MANAGE_VENDORS permission

4. Content Management

Create Banner: Endpoint: POST /banners

Authentication: Required

Authorization: FULL_ACCESS permission

Request Body:

```
{  
    "title": "Banner Title",  
    "imageUrl": "banner_image.jpg",  
    "targetUrl": "https://example.com",  
    "isActive": true,  
    "position": "homepage_hero"  
}
```

Get Banners: Endpoint: GET /banners

Authentication: Required

Authorization: MANAGE_SETTINGS permission

5. Policy Management

Create Policy: Endpoint: POST /policies

Authentication: Required

Authorization: FULL_ACCESS permission

Request Body:

```
{  
    "title": "Privacy Policy",  
    "content": "Policy content...",  
    "type": "privacy",  
    "version": "1.0"  
}
```

6. FAQ Management

Create FAQ: Endpoint: POST /faqs

Authentication: Required

Authorization: MANAGE_SETTINGS permission

Request Body:

```
{  
    "question": "How do I return an item?",  
    "answer": "You can return items within 30 days...",  
    "category": "returns",  
    "isActive": true  
}
```

Review APIs

Base URL: /api/reviews

1. Get Product Reviews

Endpoint: GET /product/:productId

Query Parameters:

- page (optional): Page number
- limit (optional): Items per page
- rating (optional): Filter by rating

2. Add Review

Endpoint: POST /

Authentication: Required

Request Body:

```
{  
  "productId": "productId",  
  "orderId": "orderId",  
  "rating": 5,  
  "comment": "Excellent product!",  
  "images": ["review_image.jpg"]  
}
```

3. Update Review

Endpoint: PUT /:reviewId

Authentication: Required

4. Delete Review

Endpoint: DELETE /:reviewId

Authentication: Required

Notification APIs

Base URL: /api/notifications

1. Get User Notifications

Endpoint: GET /

Authentication: Required

2. Mark as Read

Endpoint: PATCH /:notificationId/read

Authentication: Required

3. Mark All as Read

Endpoint: PATCH /read-all

Authentication: Required

Analytics APIs

Base URL: [/api/analytics](#)

1. Get Dashboard Analytics

Endpoint: GET /dashboard

Authentication: Required

Authorization: business, admin

2. Get Product Performance

Endpoint: GET /products/:productId

Authentication: Required

Authorization: business, admin

3. Get Sales Analytics

Endpoint: GET /sales

Authentication: Required

Authorization: business, admin

Error Responses

All APIs may return the following error responses:

400 Bad Request:

```
{  
  "message": "Validation error message",  
  "errors": {  
    "field": "Field-specific error message"  
  }  
}
```

401 Unauthorized:

```
{  
  "message": "Authentication required"  
}
```

403 Forbidden:

```
{  
  "message": "Insufficient permissions"  
}
```

404 Not Found:

```
{  
  "message": "Resource not found"  
}
```

429 Too Many Requests:

```
{  
  "message": "Rate limit exceeded"  
}
```

500 Internal Server Error:

```
{  
  "message": "Internal server error"  
}
```

Authentication

Most endpoints require authentication using JWT tokens. Include the token in the Authorization header:

```
Authorization: Bearer <jwt_token>
```

Alternatively, tokens are automatically included via HTTP-only cookies for web clients.

Rate Limiting

- **Authentication endpoints:** 3-5 requests per hour per IP
- **Product creation:** Standard rate limiting
- **General APIs:** Moderate rate limiting

File Uploads

File upload endpoints accept multipart/form-data with the following limits:

- **Images:** JPEG, PNG, GIF (5MB limit)
- **Videos:** MP4, MOV, AVI (50MB limit)
- **Documents:** PDF, DOC, DOCX, XLS, XLSX, TXT (10MB limit)

Pagination

List endpoints support pagination with the following query parameters:

- `page` : Page number (default: 1)
- `limit` : Items per page (default: 10, max: 100)

Response includes pagination metadata:

```
{  
  "data": [...],  
  "pagination": {  
    "currentPage": 1,  
    "totalPages": 10,  
    "totalItems": 100,  
    "hasNext": true,  
    "hasPrev": false  
  }  
}
```

Webhooks

Stripe Webhooks

Endpoint: POST /api/payments/stripe/webhook

Description: Handles Stripe payment events

Supported Events:

- payment_intent.succeeded
 - payment_intent.payment_failed
 - charge.dispute.created
-

Environment Variables Required

```
JWT_SECRET=your_jwt_secret
REFRESH_TOKEN_SECRET=your_refresh_secret
MONGODB_URI=your_mongodb_connection
STRIPE_SECRET_KEY=your_stripe_secret
CLOUDINARY_CLOUD_NAME=your_cldoudinary_name
CLOUDINARY_API_KEY=your_cldoudinary_key
CLOUDINARY_API_SECRET=your_cldoudinary_secret
FRONTEND_URL=http://localhost:3000
```

Status Codes Reference

- **200:** Success
 - **201:** Created
 - **400:** Bad Request
 - **401:** Unauthorized
 - **403:** Forbidden
 - **404:** Not Found
 - **409:** Conflict
 - **429:** Too Many Requests
 - **500:** Internal Server Error
-

This documentation covers the core API endpoints. For additional endpoints or detailed implementation examples, refer to the source code or contact the development team.