**TARU ECOMMERCE API ENDPOINTS**

**Authentication Endpoints**

Handles user registration, login, and authentication.

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| **Method** | **Endpoint** | **Description** | **Request Body** | **Response** |
| POST | /api/auth/register | Register a new user (buyer or seller) | { email, password, name, address, phone, role } | { userId, message } |
| POST | /api/auth/login | Login user and return JWT token | { email, password } | { token, userId, role } |

**Admin Endpoints**

For admin-specific functionalities like analytics and SHG seller management.

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| **Method** | **Endpoint** | **Description** | **Request Body** | **Response** |
| GET | /api/admin/analytics | Get analytics (e.g., most-sold products) | None | { mostSold: [{ productId, name, totalSold }], ... } |
| POST | /api/admin/shg | Appoint a new SHG seller | { email, name, address, phone } | { userId, message } |
| PUT | /api/admin/shg/:id | Update SHG seller details | { name, address, phone } | { message } |
| DELETE | /api/admin/shg/:id | Remove SHG seller | None | { message } |

**SHG Seller Endpoints**

For product management and order notifications.

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| **Method** | **Endpoint** | **Description** | **Request Body** | **Response** |
| POST | /api/seller/products | Add a new product | { name, description, price, category, images, isUnique, stock } | { productId, message } |
| PUT | /api/seller/products/:id | Update product details | { name, description, price, category, images, isUnique, stock } | { message } |
| DELETE | /api/seller/products/:id | Delete a product | None | { message } |
| GET | /api/seller/products | List all seller’s products | None | { products: [{ id, name, price, ... }] } |
| GET | /api/seller/orders | Get all orders for the seller | None | { orders: [{ id, buyerId, products, status, ... }] } |
| GET | /api/seller/notifications | Get order notifications | None | { notifications: [{ id, orderId, message, isRead, createdAt }] } |
| PUT | /api/seller/notifications/:id | Mark notification as read | None | { message } |

**Buyer Endpoints**

For browsing, cart, orders, and payments.

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| **Method** | **Endpoint** | **Description** | **Request Body** | **Response** |
| GET | /api/buyer/products | Browse all products (filter by category, price) | Query: { category, minPrice, maxPrice } | { products: [{ id, name, price, ... }] } |
| GET | /api/buyer/products/recommended | Get recommended products based on interests | None | { products: [{ id, name, price, ... }] } |
| POST | /api/buyer/cart | Add product to cart | { productId, quantity } | { cartId, message } |
| GET | /api/buyer/cart | View cart contents | None | { items: [{ productId, name, price, quantity }] } |
| DELETE | /api/buyer/cart/:productId | Remove product from cart | None | { message } |
| POST | /api/buyer/checkout | Initiate checkout with Razorpay | { cartId, deliveryAddress } | { orderId, razorpayOrderId, amount } |
| POST | /api/buyer/payment/verify | Verify Razorpay payment | { razorpayOrderId, paymentId, signature } | { orderId, status, message } |
| GET | /api/buyer/orders | View order history | None | { orders: [{ id, products, status, ... }] } |
| GET | /api/buyer/orders/:id/track | Track delivery status | None | { orderId, status, deliveryDetails } |

**Product Recommendation Endpoint**

For personalized product suggestions.

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| --- | --- | --- | --- | --- |
| **Method** | **Endpoint** | **Description** | **Request Body** | **Response** |
| GET | /api/recommendations/:buyerId | Get personalized product recommendations | None | { products: [{ id, name, price, ... }] } |