

Arada Website feature list

Arada E-Commerce Website Development Guideline



Nov,18,2025

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Timeline: 1-2 Months (4-8 Weeks)

1. Project Objectives

- *Develop a responsive, modern, and conversion-optimized interface for users to browse, search, and purchase products.*
- *Implement a secure backend API using Node.js and Express.js(Fast API) to handle authentication, products, orders, and payments.*
- *Integrate local (Chapa) and international (Stripe) payment gateways for flexibility in transactions.*
- *Create a scalable PostgreSQL database schema for efficient data storage and management.*
- *Develop comprehensive admin and super admin dashboards for managing inventory, orders, users, payments, and system settings.*
- *Deploy the full stack with CI/CD pipeline and proper database backup and security*

1. Complete Feature List

a) Customer Features (Frontend)

i. Authentication & User Management

1. •User registration with email verification
2. •User login/logout functionality
3. •Password reset via email
4. •Social login integration (Google)
5. User profile management (edit name, email, phone, address)
6. Profile picture upload
7. Change password functionality
8. Account deletion/deactivation

Product Browsing & Discovery

- Homepage with featured products, categories, and promotions
- Product listing page with:

- *Category filtering*
- *Price range filtering*
- *Search functionality (by name, description, SKU)*
- *Sorting (price low-high, high-low, newest, popularity, ratings)*
- *Pagination or infinite scroll*
- *Product grid and list view toggle*
- *Product detail page with:*
 - *High-resolution product images (image gallery/zoom)*
 - *Product description and specifications*
 - *Variants selection (size, color, etc.)*
 - *Quantity selector*
 - *Add to cart button*
 - *Add to wishlist's functionality*
 - *Product reviews and ratings display*
 - *Related/recommended products*
 - *Share product functionality*
- **Shopping Cart & Checkout**
 - *Shopping cart page with:*
 - *Add/remove items*
 - *Update quantities*
 - *Remove items with confirmation*
 - *Apply multiple discount codes/coupons (if allowed)*
 - *Validate and apply discount codes in real-time*
 - *Display discount amount and savings*
 - *Remove applied coupons*
 - *View coupon terms and conditions*
 - *Cart total calculation (subtotal, tax, shipping, discount)*
 - *Save cart for later*
 - *Clear entire cart*
 - *Continue shopping button*

- *Cart persistence (items saved across sessions)*
- **Checkout process:**
 - *Multi-step checkout form*
 - *Shipping address management*
 - *Billing address (same as shipping option)*
 - *Shipping method selection*
 - *Payment method selection (Chapa/Tale birr or Stripe/ paypal)*
 - *Order review before payment*
 - *Order confirmation page*
- **Order Management**
 - *order history page listing all past orders with:*
 - *Filter by order status (pending, processing, shipped, delivered, cancelled, refunded)*
 - *Filter by date range*
 - *Search orders by order number*
 - *Sort by date, amount, status*
- **Order details page with:**
 - *Complete order information (order number, date, status)*
 - *Order items list with product details and quantities*
 - *Order summary (subtotal, tax, shipping, discount, total)*
 - *Shipping address and tracking information*
 - *Billing address and payment information*
 - *Payment status and transaction ID*
 - *Order timeline/status history*
 - *Invoice download (PDF generation)*
 - *Print order receipt*
- **Order actions:**
 - *Cancel order (within cancellation period)*
 - *Request order modification*
 - *Return/refund request submission*
 - *Reorder functionality (add all items to cart)*

- *Track order (real-time tracking updates)*
- *Contact support for order issues*
- **Order notifications:**
 - *Email notifications for order status changes*
 - *In-app notifications (browser)*
 - *SMS notifications (if configured)*
- **Wishlist**
 - *Add/remove products to wishlist's*
 - *View wishlist*
 - *Move items from wishlist's to cart*
 - *Share wishlist's*
- **Reviews & Ratings**
 - *Submit product reviews with ratings (1-5 stars)*
 - *Upload review images*
 - *Edit/delete own reviews*
 - *View all product reviews*

1.1. Admin Dashboard Features

- *Dashboard Overview*
 - *Sales statistics (today, week, month, year)*
 - *Revenue charts and graphs*
 - *Recent orders widget*
 - *Low stock alerts*
 - *Top-selling products*
 - *Customer growth metrics*
 - *Quick actions panel*
- **Product Management**
- *Product catalog listing with search and filters*
- *Add new product with:*
 - *Product name, description, SKU*

- *Multiple product images upload*
- *Category assignment*
- *Price and compare price*
- *Stock quantity*
- *Product variants (size, color, material)*
- *SEO meta tags*
- *Product status (active/inactive/draft)*
- *Edit existing products*
- *Delete products (with confirmation)*
- *Bulk actions (activate/deactivate, delete, change category)*
- *Product duplication*
- *Import/export products (CSV/Excel)*

1.2. Category Management

- *Create/edit/delete categories*
- *Category hierarchy (parent/child categories)*
- *Category image upload*
- *Category description and SEO settings*
- *Order Management*

Orders listing with advanced filters:

- *Filter by order status (all statuses)*
- *Filter by date range (custom date picker)*
- *Filter by customer (search by name/email)*
- *Filter by payment status*
- *Filter by payment method*
- *Filter by shipping method*
- *Filter by order amount range*
- *Multiple filter combinations*
- *Search by order number*
- *Sort by various fields (date, amount, status, customer)*

Order details view with:

- Complete order information
- Customer details and contact information
- Order items with product details and variants
- Pricing breakdown (subtotal, tax, shipping, discount, total)
- Payment information (method, transaction ID, status)
- *Shipping information (address, method, tracking)*
- Order history timeline with status changes
- Admin notes and internal comments
- Customer notes (from checkout)

Order actions:

- Update order status (pending → processing → *shipped* → *delivered*)
- Cancel orders (with reason)
- Refund orders (full or partial refund)
- Update shipping tracking number and carrier
- Add/update shipping information
- Mark order as fulfilled
- Send order update email to customer
- Resend order confirmation email
- Generate and send invoice
- Generate packing slip
- *Print shipping labels (if integrated)*
- *Duplicate order*
- *Archive orders*

Order management features:

- Bulk actions (update status, assign to admin, export)
- Order notes/comments system (admin-only notes)
- Order tags/labels for organization
- Order priority marking
- Estimated delivery date calculation
- Order fulfillment checklist

Reports and exports:

- *Export orders (CSV/Excel)*
- *Export filtered orders*
- *Print order reports*
- *Order statistics overview*

Payment Management

- *View payment transactions*
- *Payment status overview*
- *Payment gateway settings (configure Chapa and Stripe keys)*
- *Refund processing*

Review Management

- *View all product reviews*
- *Approve/reject reviews*
- *Edit/delete reviews*
- *Respond to customer reviews*

Reports & Analytics

- *Sales reports (daily, weekly, monthly, yearly)*
- *Product performance reports*
- *Customer reports*
- *Revenue reports with charts*
- *Export reports (PDF, CSV, Excel)*

Content Management

- *Homepage banner/slider management*
- *Manage featured products*
- *Manage promotions/announcements*

Detailed Development Timeline

Phase 1: Planning & UI/UX Design (Week 1-2)

Week 1:

- *Day 1-2: Requirements gathering and analysis*
 - *Review business requirements*
 - *Define user personas*
 - *List all features and functionalities*
 - *Create project documentation structure*
- *Day 3-4: Database design*
 - *Design complete database schema*

- *Define relationships and constraints*
- *Create ER diagrams*
- *Plan migrations and seed data*
- **Day 5: API endpoint planning**
 - *Document all REST API endpoints*
 - *Define request/response structures*
 - *Plan authentication flows*
 - *Design error handling strategy*

-Week 2:

- **Day 1-3: UI/UX Design (Figma)**
 - *Design homepage layout*
 - *Design product listing and detail pages*
 - *Design cart and checkout flows*
 - *Design user dashboard pages*
 - *Design admin dashboard layout*
 - *Design super admin dashboard layout*
 - *Create component library and design system*
- **Day 4: Project setup**
 - *Initialize Next.js project*
 - *Initialize Node.js backend project*
 - *Setup GitHub repository*
 - *Configure development environment*
 - *Setup database connection*
 - *Configure ESLint, Prettier*
- **Day 5: Technical documentation**
 - *Write technical specification document*
 - *Document architecture decisions*
 - *Create development guidelines*

-Deliverables: -

- Complete database schema
- API endpoint documentation
- UI/UX mockups (Figma)
- Project setup on GitHub
- Technical specification document

Phase 2: Frontend Development - Customer Pages (Week 3-4)

Week 3:

- **Day 1-2: Core layout and navigation**
 - Create responsive header with search
 - Footer component
 - Navigation menu
 - Mobile menu
 - Loading states and error boundaries
- **Day 3-4: Authentication pages**
 - Login page
 - Registration page
 - Password reset pages
 - Email verification page
 - Profile page (view/edit)
- **Day 5: Homepage**
 - Hero section
 - Featured products section
 - Categories section
 - Promotional banners
 - Newsletter signup

-Week 4:

- **Day 1-2: Product pages**
 - Product listing page with filters, search, sorting
 - Product detail page with image gallery

- *Product variants selection*
- *Reviews section*
- *Related products*
- **Day 3: Shopping cart and checkout**
 - *Cart page (add/remove/update quantities)*
 - *Multi-step checkout form*
 - *Address management*
 - *Order summary*
 - *Payment method selection*
- **Day 4: Order management**
 - *Order history page*
 - *Order details page*
 - *Order tracking*
- **Day 5: Additional features**
 - *Wishlist functionality*
 - *Reviews and ratings (submit/view)*
 - *Search functionality*
 - *Product comparison (if time permits)*

-Deliverables: -

- *Complete customer-facing frontend*
- *Responsive design for all devices*
- *All customer features implemented*

Phase 3: Backend Development & Database (Week 5-6)

Week 5:

- **Day 11-2: Database setup and migrations**
 - *Setup PostgreSQL database*
 - *Configure Prisma ORM*
 - *Create all database models*
 - *Run initial migrations*

- Create seed data scripts
- **Day 3-4: Authentication system**
 - User registration API
 - User login API with JWT
 - Password reset flow
 - Email verification
 - Middleware for protected routes
 - Role-based access control (RBAC)
- **Day 5: User management APIs**
 - Profile update API
 - Password change API
 - Address management APIs
 - User activity tracking

-Week 6:

- **Day 1-2: Product management APIs**
 - Product CRUD operations
 - Category management APIs
 - Product variant APIs
 - Product search and filter APIs
 - Image upload handling
- **Day 3: Cart and checkout APIs**
 - Add to cart API
 - Update cart API
 - Remove from cart API
 - Checkout process API
 - Order creation API
- **Day 4: Order management APIs**
 - Order listing API
 - Order details API

- Order status update API
- Order cancellation API
- **Day 5: Additional APIs**
 - Wishlist APIs
 - Review and rating APIs
 - Coupon validation API
 - Notification APIs

-Deliverables: -

- Complete RESTful API backend
- Database with all tables and relationships
- Authentication and authorization system
- All customer-facing APIs

Admin & Super Admin Dashboards (Week 7- Part 1)

Week 7(Days 1-3):

- **Day 1: Admin dashboard layout**
 - Admin login page
 - Admin dashboard sidebar navigation
 - Dashboard overview page with statistics
 - Responsive admin layout
- **Day 2: Product management (Admin)**
 - Product list page
 - Add/edit product forms
 - Bulk actions
 - Category management
- **Day 3: Order management (Admin)**
 - Orders list page with filters
 - Order details page
 - Order status update functionality
 - Invoice generation

-Week 7(Days 4-5):

- **Day 4: Customer & content management (Admin)**
 - Customer list and details
 - Review management
 - Coupon management
 - Homepage content management
- **Day 5: Super admin features**
 - Super admin dashboard
 - Admin user management
 - System settings
 - Audit logs page
 - Advanced reports
- **Day 6: Payment gateway setup**
 - Chapa/TallBirr API integration
 - Stripe API integration
 - Payment configuration in admin panel

-Week 8(Days 1-3):

- **Day 1: Payment processing**
 - Payment initialization
 - Payment callback handling
 - Webhook setup for both gateways
 - Payment status tracking
- **Day 2: Reports & analytics**
 - Sales reports implementation
 - Revenue charts
 - Product performance reports
 - Export functionality

-Deliverables: -

- *Complete admin dashboard*
- *Complete super admin dashboard*
- *All admin and super admin features*

Phase 6: Testing, Deployment & Documentation (Week 8- Part 2)

Week 8(Days 4-5):

- *Day 4: Testing and QA*
 - *Unit testing (critical functions)*
 - *Integration testing*
 - *End-to-end testing*
 - *Cross-browser testing*
 - *Mobile responsiveness testing*
 - *Performance testing*
 - *Security testing*
 - *Bug fixes*
- *Day 5: Deployment and documentation*
 - *Deploy frontend to Vercel*
 - *Deploy backend to Render/Railway*
 - *Setup PostgreSQL database hosting*
 - *Configure environment variables*
 - *Setup CI/CD pipeline*
 - *Database backup configuration*
 - *SSL certificate setup*
 - *Domain configuration (if provided)*
 - *Write technical documentation*
 - *Write user manuals (admin and customer)*
 - *Create deployment guide*

- *Prepare handover documentation*

-Deliverables: -

- *Fully tested application*
- *Production deployment*
- *Complete documentation*
- *Live demo*

Communication Plan

- *Weekly progress updates via email or zoom meet/google meet/ WhatsApp*
- *GitHub repository shared for transparency and code review*
- *Live staging URL for client testing starting from Week 5*
- *Immediate feedback integration at the end of each milestone*
- *Scheduled meetings for requirement clarifications*

Bug tracking via GitHub Issues or preferred project management tool

Success Criteria

➤ *The project will be considered successful when: -*

- *All features listed in all sections are implemented and functional*
- *Application passes all testing phases*
- *Application is deployed to production and accessible*
- *Admin and super admin can perform all management tasks*
- *Customers can complete purchase flow successfully*
- *Payment gateways process transactions correctly*
- *Application is responsive across all devices*
- *Documentation is complete and provided*
- *Client approval received*