

Client Requirement "We want to create an online marketplace where users can buy and sell products, similar to eBay or Amazon, but we want it to focus on local products and sustainable shopping. Users should be able to search for items, make purchases, leave reviews, and manage their accounts. We also want to have features that promote eco-friendly products."

Epics

1. User Account Management

Epic Description: Implement features that allow users to register, manage their accounts, and update profile information.

Key Features:

- User Registration & Login
- Account Profile Management
- Password Recovery

2. Product Listing and Management

Epic Description: Allow users (sellers) to list products, manage inventory, and update product details.

Key Features:

- Product Listing Creation
- Product Category and Tags (Local and Eco-friendly)
- Inventory Management
- Edit/Delete Listings

3. Product Search and Filters

Epic Description: Implement a robust search feature to allow users to search for and filter products.

Key Features:

- Product Search by Name, Category, and Seller
- Filtering Options (Local, Eco-friendly, Price Range)
- Sorting Options (Price, Popularity, Newest)

4. Shopping Cart and Checkout

Epic Description: Enable users to add products to a shopping cart and complete the purchase process.

Key Features:

- Add/Remove Items from Cart
- Secure Checkout Process
- Payment Gateway Integration
- Order Confirmation and Receipts

5. **Reviews and Ratings**

Epic Description: Implement features for users to leave reviews and ratings for products and sellers.

Key Features:

- Write and Submit Reviews
- Product Ratings (Star-based or Thumbs Up/Down)
- Display Reviews and Ratings on Product Pages
- Sellers can respond to reviews

6. **Sustainable Product Promotion**

Epic Description: Create features that highlight and promote eco-friendly and local products.

Key Features:

- Eco-friendly Product Badging
- Featured Local Products
- Sustainability Score for Products

7. **Order and Payment Management**

Epic Description: Allow users to track orders and manage their payments.

Key Features:

- Order History and Tracking
- Cancel/Return Orders
- Manage Payment Methods

8. **Notifications and Alerts**

Epic Description: Notify users about order status, promotions, and reviews.

Key Features:

- Email and SMS Notifications
- Push Notifications for Mobile

9. **Seller Management**

Epic Description: Provide features for sellers to manage their profiles, sales, and orders.

Key Features:

- Seller Profile Creation and Management
- View Sales Reports and Analytics
- Manage Orders and Shipments (to be clarified if platform provides shipping or it is seller managed)

10. Admin Portal and Product Moderation

Epic Description: Provide an admin portal to manage users, products, and ensure adherence to sustainability guidelines.

Key Features:

- User and Product Moderation
 - Flagging and Reporting Non-Compliant Products
 - Manage Platform-wide Settings
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Epic: Product Search and Filters

1. User Story 1: Search Products by Name

- **As a user**, I want to search for products by entering a product name in the search bar, so that I can quickly find the products I'm looking for.
- **Acceptance Criteria:**
 - The user can input a product name in the search bar.
 - The search results display products matching the entered name.
 - The system provides suggestions while typing the product name.
 - Products with partial name matches should also appear in the results.

2. User Story 2: Filter Products by Category

- **As a user**, I want to filter products by categories such as "Local Products" or "Eco-Friendly Products," so that I can find specific types of products easily.
- **Acceptance Criteria:**
 - The user can see product categories on the search results page.
 - The user can filter products by selecting one or multiple categories.
 - The system updates the product list based on the selected filters.
 - Filtered products must belong to the selected categories.

3. User Story 3: Filter Products by Price Range

- **As a user**, I want to filter products based on price range, so that I can view products within my budget.
- **Acceptance Criteria:**
 - The user can input a minimum and maximum price range for filtering.
 - The system only displays products that fall within the specified price range.
 - If no products match the selected price range, the user is shown a "No Results" message.

4. **User Story 4: Sort Products by Price**

- **As a user**, I want to sort products by price (ascending or descending), so that I can easily compare product prices.
- **Acceptance Criteria:**
 - The user can choose to sort products by price (low to high or high to low).
 - The system correctly displays products in the selected price order.
 - The sorting option persists until the user chooses another sorting option or navigates away.

5. **User Story 5: Sort Products by Popularity**

- **As a user**, I want to sort products by popularity, so that I can find products that other users are purchasing or reviewing frequently.
- **Acceptance Criteria:**
 - The user can select a sorting option for popularity.
 - The system displays products based on the number of purchases, reviews, or ratings.
 - Products with higher engagement are shown at the top.

6. **User Story 6: Display Search Results with Pagination**

- **As a user**, I want to see my search results displayed with pagination, so that I can browse through the search results more easily.
 - **Acceptance Criteria:**
 - The system paginates search results with a default of 10 items per page.
 - The user can navigate between pages of search results.
 - Pagination controls are displayed at the bottom of the search results.
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Ambiguities and Assumptions

Ambiguities

1. **Local Products Definition:** It's unclear whether "local products" are defined by the seller's proximity to the buyer or based on a specific region. Clarification is needed.
2. **Sustainable Shopping Criteria:** What qualifies a product as "sustainable" or "eco-friendly"? Are there specific certifications or criteria that must be met, such as Fairtrade or organic certifications?
3. **Review and Rating System:** The exact mechanics of the review system are undefined. Is it a star-based system, thumbs up/down, or a combination? Can sellers respond to reviews?
4. **Checkout Payment Options:** The payment methods supported (e.g., credit card, PayPal, cryptocurrency) need to be clarified.
5. **Shipping and Delivery:** Will shipping logistics be handled by the seller, or will the platform provide an integrated shipping solution?
6. **Moderation of Listings:** Will there be a manual or automated system for moderating product listings, especially in terms of verifying local or sustainable claims?
7. **Seller Management of Orders and Shipments:** It's ambiguous whether the platform will assist with order fulfillment and shipping, or if it will be entirely seller-managed.
8. **International Transactions:** Will the marketplace support international transactions, or is it limited to specific regions?

Assumptions

1. **Focus on Local and Sustainable Products:** It is assumed that promoting local and eco-friendly products is the primary differentiator of this marketplace from competitors like eBay or Amazon.
2. **Sellers Set Prices:** It is assumed that sellers will control product pricing, and the platform will not impose regulations on prices.
3. **User Authentication and Security:** The platform will include standard security features, such as user authentication, password encryption, and payment security protocols.
4. **Mobile Accessibility:** It is assumed that the platform will be mobile-friendly through either a mobile app or responsive web design.

5. **Product Return and Refund Policy:** The marketplace will have a return and refund policy, although the details have not been specified.
6. **Eco-Friendly Badging:** Products labeled as eco-friendly will likely carry a badge or certification approved by the platform, though the process for obtaining this is not outlined.
7. **Sellers Manage Their Own Inventory:** It is assumed that sellers are responsible for managing their inventory, updating stock availability, and fulfilling orders.