

# Requirements Gathering

## 1. Stakeholder Analysis

### Key Stakeholders & Their Needs

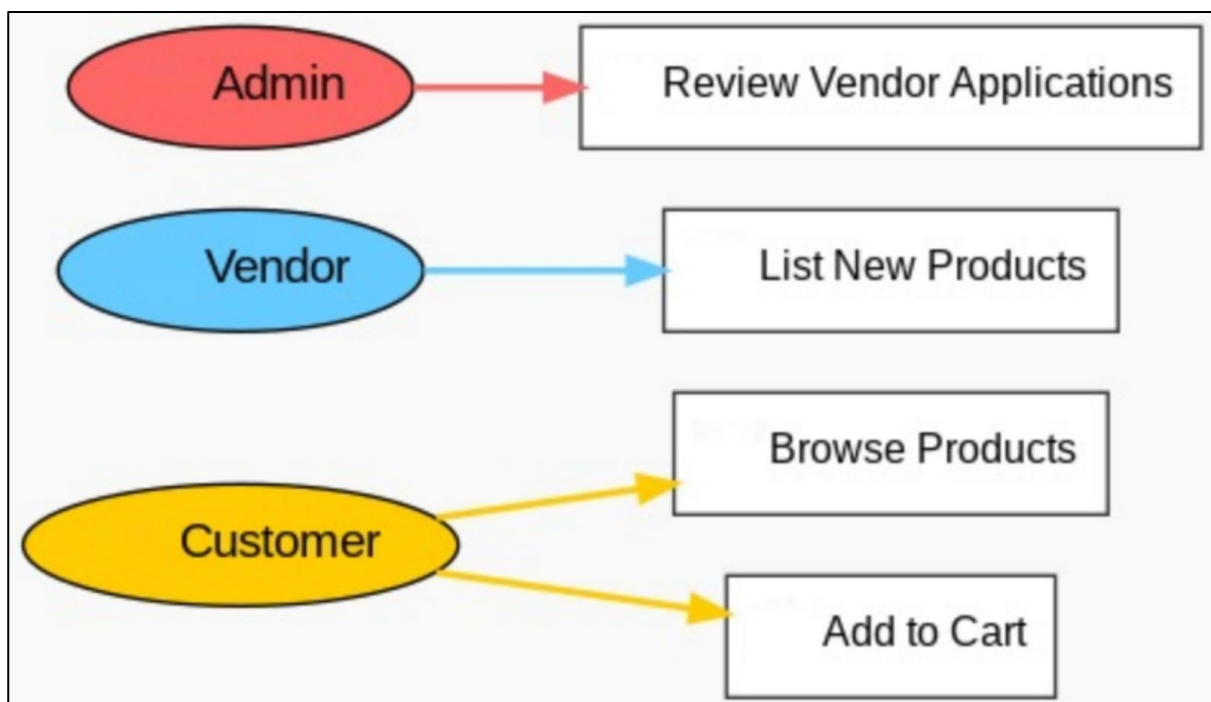
Stakeholder	Role	Needs
Customers	Buyers on the platform	Browse products, add to cart, make secure payments, track orders.
Vendors	Sellers listing products	Manage inventory, process orders, track sales.
Admins	System managers	Monitor transactions, manage users, handle security measures.

## 2. User Stories & Use Cases

### User Stories

- As a customer, I want to browse products by category so that I can find items easily.
- As a customer, I want to add items to my shopping cart so that I can purchase them later.
- As a vendor, I want to list new products with images and descriptions so that customers can view and buy them.
- As an admin, I want to review vendor applications before approval to ensure authenticity.

### Use Case Diagram



### 3. Functional Requirements

#### Customer Features:

- ✓ User registration and login (email/password, Google/Facebook authentication).
- ✓ Browse product categories and search for specific items.
- ✓ Add products to a shopping cart and proceed to checkout.
- ✓ Make secure payments via integrated payment gateways.
- ✓ Track order status and view purchase history.
- ✓ Leave product reviews and ratings.

#### Vendor Features:

- ✓ Register as a seller and manage store details.
- ✓ Add, edit, and remove products from inventory.
- ✓ View and process customer orders.
- ✓ Track revenue and generate sales reports.

#### Admin Features:

- ✓ Approve or reject vendor registrations.
- ✓ Manage system-wide security policies and user roles.
- ✓ Monitor transactions and detect fraudulent activities.
- ✓ Generate platform performance reports.

### 4. Non-Functional Requirements

Requirement	Description
Performance	Ensure page load time is under 2 seconds.
Security	Implement secure authentication, encryption, and fraud detection.
Usability	Provide an intuitive and mobile-friendly UI.
Scalability	Support high traffic loads and future feature expansion.

### 5. Conclusion

This document outlines the key stakeholders, functional and non-functional requirements, and the expected user interactions for the E-Commerce System. These insights will guide the system's development and design phases.