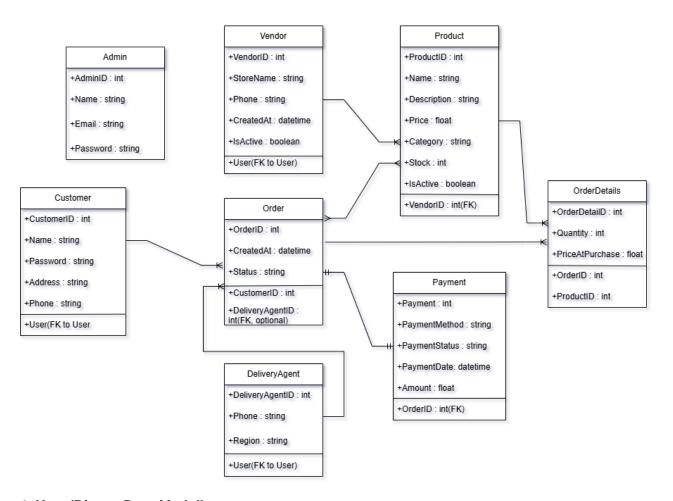
Entity-Relationship Diagram – B00150982



1. User (Django Base Model)

- Shared by all roles (Customer, Vendor, DeliveryAgent, Admin)
- Manages authentication and basic user info (username, password, email)

2. Customer

- One-to-One with User
- Contains customer-specific info like address and phone
- Has Many Orders
- Use Case Supported: Register/login, browse products, add to cart, place orders, track orders

3. Vendor

- One-to-One with User
- Stores store name and phone number
- Has Many Products
- Use Case Supported: Register/login, manage inventory, view orders of their products

4. Product

- Created and owned by a **Vendor**
- Contains details like name, category, description, stock, availability
- Referenced in OrderDetail to track products in each order
- Use Case Supported: Vendors manage inventory; customers browse/search products and add to cart

5. Order

- Placed by a Customer
- Optionally assigned to a Delivery Agent
- Has Many OrderDetails
- Has One Payment
- Tracks order status (Pending, Shipped, Delivered, etc.)
- **Use Case Supported:** Place order, track status, vendor fulfillment, delivery management

6. OrderDetail

- Join table between **Order** and **Product**
- Captures quantity, price at time of purchase
- Supports a Many-to-Many relationship between orders and products
- Use Case Supported: Line-by-line tracking of what's in each order

7. Payment

- Each Order has one Payment
- Records payment method, status, and timestamp
- Use Case Supported: Customers complete payment at checkout

8. DeliveryAgent

- One-to-One with User
- Assigned to multiple orders via a foreign key in Order
- Contains info like phone and region
- Use Case Supported: Delivery agents view assigned orders and update delivery status