***Trendyol Data Requirements***

**User Management Requirements**

1. System must support three types of users:
   * Customer
   * Sellers
   * Administrators
2. User Authentication & Profile
   * Each user must have a unique UserID
   * Basic user information must be stored

**Customer Requirements**

1. Customer Profile
   * Customers must be linked to a base user account
   * Multiple addresses can be stored per customer
   * Multiple payment methods can be associated with one customer
2. Shopping Experience
   * Customers can maintain a shopping cart
   * Customers can save favorite products
   * Customers can write product reviews
3. Order Management
   * Customers can place orders
   * Order history must be maintained
   * Refund requests can be submitted
   * Refund history must be tracked

**Seller Requirements**

1. Seller Profile
   * Sellers must be linked to a base user account
   * Sellers can have multiple addresses
   * Shipment information must be tracked
2. Product Management
   * Sellers can list products for sale
   * Sellers can remove products from sale
   * Sellers must maintain stock levels
   * Sellers can set prices for products
   * Sellers can create promotions for their products

**Product Requirements**

1. Product Structure
   * Products must have base information
   * Products can have multiple variations
   * Each variation can have multiple options
   * Products must belong to at least one category
   * Products can be configured with specific options when added to cart
2. Product Categorization
   * Products must belong to categories
   * Categories can have subcategories (parent-child relationship)
   * Special categories can be created by administrators
   * Products can belong to multiple categories
3. Inventory Management
   * Stock levels must be tracked per product item and seller
   * Prices must be maintained per product item and seller

**Promotional Requirements**

1. Promotions
   * Administrators can create system-wide promotions
   * Sellers can create seller-specific promotions
   * Promotions can apply to specific products
   * Promotions can apply to entire categories
2. Coupons
   * Administrators can create coupons
   * Coupons can be applied to specific sellers
   * Coupons can be applied to specific products

**Physical Location Requirements**

1. Take on Spot Service
   * Physical locations must be tracked
   * Products available at physical locations must be recorded
   * Business hours for physical locations must be maintained

**Data Integrity Requirements**

1. Historical Data
   * Order history must be preserved
   * Refund history must be maintained
   * Product configurations must be saved with orders

**Administrative Requirements**

1. System Management
   * Administrators can manage promotions
   * Administrators can manage coupons
   * Administrators can create special categories