**Documentation for Admin User, Simple User, Products, Promotions, and Orders**

**1. Admin User**

**Description:**

An Admin User is responsible for managing the backend operations of the system. They handle product listings, promotions, and order management.

**Features & Responsibilities:**

* **Product Management:**
  + Add new products.
  + Update product details (e.g., price, stock, description).
  + Remove obsolete products.
* **Promotion Management:**
  + Create new promotions and associate them with products.
  + Update or delete existing promotions.
* **Order Management:**
  + View all user orders.
* **Database Interaction:**
  + Perform CRUD operations on the database.

**Access Rights:**

* Full access to the admin panel.
* Permissions to modify all entities (products, promotions, and orders).

**2. Simple User**

**Description:**

A Simple User interacts with the front-facing web application to browse products, add items to the cart, and place orders.

**Features & Responsibilities:**

* **Product Browsing:**
  + View a list of available products with details (name, description, price, and stock).
  + Search or filter products by category.
* **Cart Management:**
  + Add products to the cart.
  + Update product quantities in the cart.
  + Remove items from the cart.
* **Order Placement:**
  + Proceed to checkout.

**Access Rights:**

* Restricted to viewing and interacting with products and promotions.
* Can only create and track their own orders.

**3. Products**

**Description:**

Products are the items available for purchase within the system.

**Attributes:**

* **ID:** Unique identifier for each product.
* **Name:** Name of the product.
* **Description:** Detailed information about the product.
* **Price:** Cost of the product.

**Interactions:**

* Admin Users can create, update, and delete products.
* Simple Users can view product details.

**5. Orders**

**Description:**

Orders represent the purchases made by Simple Users.

**Attributes:**

* **Products:** List of products in the order, each with:
  + Product ID
  + Quantity
  + Price (at the time of order)
* **Total Amount:** Sum of the prices of all products in the order.

**Interactions:**

* Admin Users can view and update order statuses.
* Simple Users can place orders and track their statuses.