**SHOMYA e-commerce**

**1. Introduction**

**1.1 Purpose**

This SRS document describes the functionalities and requirements of an online shopping platform. It aims to define the system's capabilities for both system admins and customers, ensuring a clear understanding of the project's scope.

**1.2 Scope**

The platform will support **user registration**, **profile management**, **product management**, **shopping cart functionality**, and **payment processing**. It will include both **a user interface** and **an admin interface**, with features tailored to each type of user.

**2. Functional Requirements**

**2.1 User Functionalities**

* **Sign Up:**
  + Users can create an account by entering their profile data, including **name, birthday, password, job, e-mail, credit limit, address, and interests.**
* **Sign In:**
  + Users can log in using their **e-mail and password**.
* **Profile Management:**
  + Users can edit their profile information.
* **Product Viewing:**
  + Users can view all available products categorized appropriately.
* **Shopping Cart Management:**
  + Users can add or remove products from their shopping cart.
  + Users can virtually purchase products within their credit limit.
  + After a purchase, the user's credit limit and product quantities should be updated, and the cart should be reset.
* **Search Functionality (Bonus Feature):**
  + Users can search **for products by price or category.**
* **Object-Relational Mapping:**
  + Apply object-relational mapping (ORM) and connection pooling for database interactions.
* **(Bonus Feature):**
  + Shopping cart products can be stored in the database if the user signs out before completing the purchase.
  + Optional (User can login through his google account)

**2.2 System Administrator Functionalities**

* **Product Management:**
  + Admins can view, add, edit, and remove product prices and quantities.
* **Customer Profile Review:**
  + Admins can review customer profiles.
* **Order History Review (Bonus Feature):**
  + Admins can review customer order history.

**3. Non-Functional Requirements**

**3.1 User Interface**

* **Responsiveness:**
  + The user interface must be user-friendly and responsive for all views, including both admin and user interfaces.
* **Mobile First:**
  + The GUI for user views must be optimized for mobile devices.

**3.2 Performance**

* **Asynchronous Technology:**
  + Implement asynchronous technology for checking username availability during registration and for managing shopping cart operations.

**3.3 Validation**

* **Client-Side Validation:**
  + Ensure client-side validation is applied to all user inputs to prevent incorrect data entry.