

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.