**SHOPPING LIST NOTIFICATIONS SYSTEM**

**High Level Design**

**Document Control:**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Employee Leave Management System:** | | | | | | | | |
| Guided by – Prof. Sikander |  |  | |  |  |  |  |  |
| **Date** | **Version** | **Author** | **Brief Description of Changes** | | | | **Approver Signature** | |
|  | 1.0 | S H Nidhi  Nikitha  Saurabh  Sanket  Prathiksha |  | | | |  | |
|  | 2.0 | S H Nidhi  Nikitha  Saurabh  Sanket  Prathiksha | Password validation  in login () | | | |  | |
|  |  |  |  | | | |  | |

**Introduction**

1. **Purpose:**

The main purpose of this project is to develop a shopping list notifications system where the user can subscribe for a product and get the notifications regarding the products he has subscribed.

**1.1 Intended Audience**:

There is no such specific audience, it could be the user.

**1.2 Project Purpose:**

The admin can create a list and handle the shopping list by adding and updating the product details. The user can subscribe for the products he wants and get the notifications regarding the increase or decrease of the price of the products he has subscribed.

**1.3 Key Project Objectives:**

* The system allows the admin to add and manage the shopping list.
* Allow the user to subscribe for the products according to his choice.
* The system will give the notifications to the user regarding the increase or decrease in the price of the products he has subscribed.

**1.4 Project Scope and Limitations:**

The users must register to the system only then they can login to the system to access the primaries.

**1.4.1 In Scope:**

* The current system allows the users to create account and subscribe to the product.
* The users could subscribe for price alerts which would enable them to receive messages when price for products fall below a particular level.
* It can be extended to have a easy to use check out process.

**1.5 Functional Overview:**

The following Functions are included in the program:

1. **void new\_user\_registration()**
2. **int admin\_login\_interface()**
3. **void user\_login()**
4. **void load\_admin\_data()**
5. **void load\_user\_data()**
6. **int validate\_login(int eid, string pass)**

**2. Design Overview:**

|  |  |
| --- | --- |
| Name of the Module | User registration and Login |
| Handled by | S H Nidhi, Saurabh |
| Description | **Registration**: User ID, First Name, Second Name, Contact, password details store in file.  **Login**: Search the given input in details file and allow login if details match.  After creating Account, he/she can successfully enter the system. |

**2.1 Design Objective:**

In Shopping list Notifications System, there are two objectives namely primary and secondary.

**Primary:**

To access the services provided by the system the user needs to register and create account with their personal details (User Id, Name, contact, password, etc) and the customer should login with a valid user Id and password.

**Secondary:**

The users who are logged in will be able to access the services.

**2.1.2 User Interface Paradigms:**

The user is to login with user Id and password. The details of the users are stored in the files.

**2.1.3 Error Detection:**

The user should create account or else the user cannot access the primaries in the system. The registered user has to login with valid credentials otherwise, they will get invalid credentials.

**2.1.4 Performance:**

The system will work on the local server. The performance depends on the server dependency.

**2.1.5 Maintenance:**

To make the system more secure, the password is being masked. The authentication is setup for individual user or those who are registered into the system.

1. **Environment Description:**

**3.1 Time Zone Support:** IST-Kolkata

**3.2 Language Support:** English

**3.3 User Desktop Requirements:**

a. 64-bit processor, 1GHz or faster

b. At least 2 GB free hard drive space

c. At least 1 GB RAM

**3.4 Server-Side Requirements:**

a. 64-bit processor, 1 GHz or faster

b. At least 1 GB free hard drive space

c. At least 1 GB RAM

**3.4.1 Deployment Considerations:**

System is easy to deploy

**3.4.2 Integration Requirements:**

1. **Language**: C++

2**. Tools**: Valgrind , Make file, gcov

3. **Complier**: g++

4. **Software:** Putty, Ubuntu

* + 1. **Network:** End to End.

**3.5 Operating System:** Linux.