

User : Login

- ~ ① identify self
- ~ ② New user create account (give location)
- ~ ③ user can't login . give warning

User info

- ① modify account identifier and password.
- ② user must establish security method.
- ③ user must able view and modify the preference of store location
- ④ user can request personal info and account deletion.

Manager:

- ① have authority to add , remove and update the item for store they assigned.
- ② have ability to update the item's availability in the store they assigned
- ③ have access and authority to check and modify the item in the sale list for store they assign.
- ④ can update store's availability , opening and closing hours. that they change
- ⑤ can update store's map and categorical sections that they change .
- ⑥ manager removed by adm has no access for management for teams and stores.
- ⑦ After adm change store , manager get newest version of store info

Administrator:

- ① Can interact with the item in every store any operation that the managers can perform .
- ② can add and remove a specific store
- ③ can update store's availability , opening and closing hours.
- ④ can update store's map and categorical sections
- ⑤ can add , remove and update manager for a specific store.
- ⑥

If admin want add a manager into system:

- ① create account
- ② grant account the access privilege for item and store management.
- ③ display identifier and temporary password

If admin remove manager ,

- ① revoke privilege of manager account
- ② delete manager account.

Customer: need provide real location (street name and number, postal code, city, country).

- ① can search available stores within range from customer provide location.
- ② can save and unsave store location for preference.
- ③ can change store's location at any time during their visit online service.
- ④
 1. can search item by name
 2. can search item by category.
- ⑤ when access one item, it should show:
 1. name and description
 2. price and size
 3. available of item.

Shopping List:

- ① when customer choose a specific store , initiate a shopping list.
- ② customer can add and remove item to the shopping list.
- ③ the item in shopping list must save and remain the same while the availability of the item when:
 1. customer log in and out.
 2. customer inactive for period of time.
 3. customer change the location of the store.

Best shopping order:

4.4.4 - Req 1: The system must have the ability to generate solutions for shopping orders to achieve the possible shortest amount of time for customers during their visit at the specific store. The generators will collect information based on the following aspects:⁴

4.4.4 - Req 1.1: the store that the customers are visiting along with the internal structure of the store as described in the system at the current time.⁴

*Priority: High*⁴

4.4.4 - Req 1.2: the shopping list that the customers have created and modified at the current time.⁴

*Priority: High*⁴

4.4.4 - Req 1.3: the density of people in the specific store at the time the customers want to visit.⁴

*Priority: Low*⁴

Recommendation:

4.5 - Req 1: The system must have the ability to generate the list of **sale** items for a specific week from the system's resources and display the list to customers who are accessing the system.⁴

*Priority: High*⁴

4.5 - Req 2: The system must have the ability to display a list of suggested items regarding to the following features:⁴

4.5 - Req 2.1: The current store that the customers are accessing within the system.⁴

*Priority: High*⁴

4.5 - Req 2.2: Items that are not in the customer's shopping list and searched by the others whose shopping list contains some of the items in the specified customer's shopping list.⁴

*Priority: High*⁴

4.5 - Req 2.3: The frequency of an item being searched by customers during a period of time (the current week or the current month).⁴

*Priority: High*⁴