**List of Use Cases (sort by priority)**

1. Search for an item

2. Sort Items by distance or price

3. Login/ Register

4. Add an item (name, price, and location)

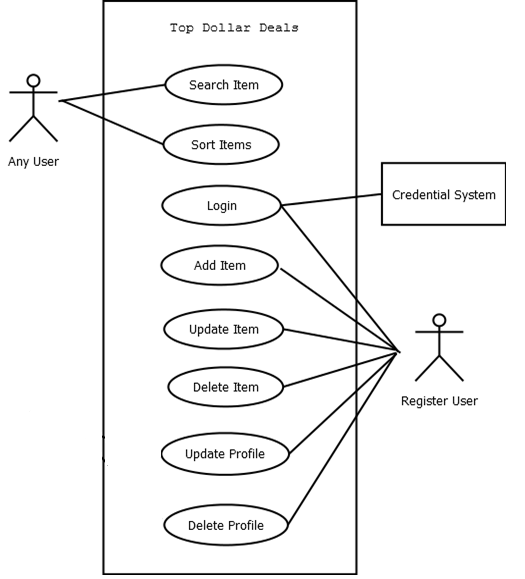
5. Update item (price, name or location)

6. Delete item

7. Update profile

8. Delete profile

Use Case Diagrams



Use Case UC1: Search for grocery item

**Scope:** Grocery Pricing Application

**Level:** User goal

**Primary Actor:** Any user (registered or unregistered)

**Stakeholders and Interests:**

* User: Wants to be able to find grocery item information quickly and accurately via this search.

**Preconditions:** None – you do not have to be logged in in order to search.

**Success Guarantee (or Postconditions):** Search results (item, price, store location) are shown on the screen.

**Summary:** User searches for grocery item. If applicable results are found, results are displayed on the screen.

**Main Success Scenario (or Basic Flow):**

1. User searches for grocery item.
2. Result is found.
3. The resulting grocery item information (item, price, store location) is displayed on the screen.

**Extensions (or Alternative Flow):**

2a. No result found.

1. User is informed that there is no information for the resulting item.
2. Asks user if they would like to start a new search.

**Special Requirements:**

* Web application is responsive design.

**Frequency of Occurrence:** Could be nearly continuous.

**Open Issues:**

* Searching functionality – use of predictive text?

Use case UC4: Add Item

**Scope:** Grocery Pricing Application

**Level:** user goal

**Primary Actor:** Registered user

**Stakeholders and Interests:**

* Registered user: Want to easily add an item and its price to the list of a certain grocery store.

**Preconditions:** Registered user is identified and authenticated.

**Success Guarantee (or Postconditions):** The item is saved. The item is added to the system. The item shows up correctly after it’s saved.

**Main Success Scenario (or Basic Flow):**

1. Registered user login

2. Registered user adds an item.

3. System adds item and its price.

4. The system logs completed adding or updating item.

5. The system shows the item in the search list.

**Extensions (or Alternative Flows):**

1a. Invalid authenticated.

1. Unregistered user tries to add an item.
2. User register as a new member
3. Invalid user or password

2a. System searches for duplicate item.

1. System found a match, then user can update the price for a certain store

3a. User add wrong item

1. User can delete the item and add the correct one

4a. User cancel adding item

1. User cancel adding item, go back to the previous page

**Special Requirements:**

* + Web application is responsive design.

**Technology and Data Variations List:**

1a. User has a choice of create a new registrations or login with Gmail account.

**Frequency of Occurrence:** Could be nearly continuous.

**Open Issues:**

* + Can users upload their profile picture on the registration page?
  + Can users upload pictures of the item?

Use case UC5: Update item

Scope: Grocery Pricing Application

**Level:** user goal

**Primary Actor:** Registered user

**Stakeholders and Interests:**

* Registered user: Want to easily update an item and its details in the list of a certain grocery store.

**Preconditions:** Registered user is identified and authenticated.

**Success Guarantee (or Postconditions):** The item is updated in the system. The item shows up correctly after it’s updated.

**Main Success Scenario (or Basic Flow):**

1. Registered user display an item.

2. Registered user update the item details.

3. System save the new item details.

**Extensions (or Alternative Flows):**

2a. An error in the input data format.

1. System detects a wrong input data format (like string input for price or quantity, or wrong picture format).
2. System prompts user to reenter a correct input data.
3. User reenter a correct input format.

**Special Requirements:**

* + Web application is responsive design.

**Technology and Data Variations List:**

* + N/A

**Frequency of Occurrence:** Could be nearly continuous.

**Open Issues:**

* + How many pictures users can upload for each item?

Use case UC6: Delete item

Scope: Grocery Pricing Application

**Level:** user goal

**Primary Actor:** Registered user

**Stakeholders and Interests:**

* Registered user: Want to easily delete an item.

**Preconditions:** Registered user is identified and authenticated and item to delete has been added.

**Success Guarantee (or Postconditions):** The item is deleted from the system for specific grocery store.

**Main Success Scenario (or Basic Flow):**

1. Registered user display an item.

2. Registered user deletes the item.

3. System deletes item and its details.

**Extensions (or Alternative Flows):**

* + N/A

**Special Requirements:**

* + Web application is responsive design.

**Technology and Data Variations List:**

* + N/A

**Frequency of Occurrence:** Could be nearly continuous.

**Open Issues:**

* + N/A

Use case UC7: Update Profile

**Scope:** Grocery Pricing Application

**Level:** User goal

**Primary Actor:** Registered user

**Stakeholders and Interests:**

* Registered user: Want to easily change information (username, password, email, zip code) included in the user profile

**Preconditions:** Registered user is identified, authenticated, and is logged in.

**Success Guarantee (or Postconditions):** The user information that was changed is updated in the system.

**Main Success Scenario (or Basic Flow):**

1. Registered user enters new name, password and/or zip code to update their profile.
2. System updates information to change as specified by the user.
3. The updated information is reflected on the user’s profile.

**Extensions (or Alternative Flows):**

1a. User enters in illegal character in name, password, and/or zip code

1. System prompts user to reenter illegally entered information

**Special Requirements:**

* + Web application is responsive design.

**Technology and Data Variations List:**

* + N/A

**Frequency of Occurrence:**  As frequent as required by registered user.

**Open Issues:**

* + N/A

Use case UC8: Delete Profile

**Scope:** Grocery Pricing Application

**Level:** User goal

**Primary Actor:** Registered user

**Stakeholders and Interests:**

* Registered user: Want to delete their user profile

**Preconditions:** Registered user is identified, authenticated, and is logged in.

**Success Guarantee (or Postconditions):** The user profile is deleted from the system.

**Main Success Scenario (or Basic Flow):**

1. Registered user deletes their profile.
2. System removes the user profile.

**Extensions (or Alternative Flows):**

* + N/A

**Special Requirements:**

* + Web application is responsive design.

**Technology and Data Variations List:**

* + N/A

**Frequency of Occurrence:**  Once for each registered user.

**Open Issues:**

* + N/A