**STORE MANAGEMENT SYSTEM: USER STORIES**

**Iteration 1 (Feb 28)**

1. As a user, I want to check out a list of items bought by a customer
2. As a user, I want to update the inventory (change price, availability, add new products,...)

Use cases:

Use case: Check out

Steps:

1. The system displays the main screen



1. User clicks on button “Checkout”
2. The system displays the Checkout screen



1. User clicks on button Add to add a new item
2. System updates information of the new item in the list of items
3. User repeats step 4 for all items
4. User clicks on button “Finish and Pay”
5. System displays the Payment screen



1. User chooses payment type
2. If user choose payment type of Cash, System displays the Receipt screen for printing:



11. If user choose payment type of Credit Card:

11.1. System displays the Credit Card screen:



11.2 User inputs credit card information and click buttion OK.

11.3 System display Receipt screen



**Architecture Design:**

Components

1. Components to display all screens: main screen, checkout screen, credit card information screen...
2. Components for data access: read/write product information, save/load orders,
3. Components for calculation: calculate the total cost + taxes of an order,
4. Components for storing products, orders... in memory (object mappings)

**Iteration 2 (Mar 13):**

1. As a cashier, I want to check out a list of items bought by a customer
2. As a manager, I want to update the inventory (change price, availability, add new products,...)
3. As an employee, I want to login into and logout from the system
4. As an employee, I want to change my display information (e.g. display name, photo...), my access code/password from the system
5. As a manager, I can assign or change the access rights to other employees
6. As a customer support employee, I want to help a customer returning an item bought previously

**Backlog**

1. As a manager, I want to search/filter for specific items in the inventory
2. As an employee, I want to login into and logout from the system
3. As a manager, I want to change/correct the current list of items while checking out
4. As a customer, I want to self-check out a list of items
5. As an employee, I want to verify/validate the inventory (e.g., checking if the marked price of item is also the price stored in the system)
6. As a customer, I want to check the price and availability of an item (e.g. scan it at a barcode reader and get the price)
7. As a customer, I want to get cash while checking out
8. As a manager, I want to have a report of availability of products in the store and warnings/alerts to re-order products with low availability.
9. As a manager, I want to have daily (weekly, monthly...) reports of business activities (e.g., products sold, revenue, ...)
10. As a manager, I want to check the integrity of an employee: if the beginning balance + money got in his/her shift = the ending balance.
11. As a cashier, I want to have warnings/alerts specialized to some products (e.g. warnings for checking age of customers when they buy alcohol or smoking products)...
12. As a manager, I want to have reports of working times of employees
13. As a manager, I want to update the balance at checkout spots.
14. As a manager, I want to create an account for an employee
15. As an employee, I want to update my login information (e.g. change the display name or password)
16. As a customer, I want to order the products online and get them shipped to my address
17. As a customer, I want to order the products online and pick them up at the store

**Iteration 3 (Apr 28)**

1. As a cashier, I want to check out a list of items bought by a customer
2. As a manager, I want to update the inventory (change price, availability, add new products,...)
3. As an employee, I want to login into and logout from the system
4. As an employee, I want to change my display information (e.g. display name, photo...), my access code/password from the system
5. As a manager, I can assign or change the access rights to other employees
6. As a customer support employee, I want to help a customer returning an item bought previously
7. As a manager, I want to install the application for the first time, set up users, and convert existing the database in XLS into a SQL-based database.
8. As a cashier, I want to checkout differently for loyal program customers. If the customer has a loyal card, some items will have different prices.
9. As a manager, I want to set up discount prices for some products.
10. As a customer, I want to use the reward points to pay in checking out process. The reward points are accumulated while paying by actual dollars. The conversion rate is 1 point for $1 when buying, and 100 points for paying with points.
11. As a manager, I want to have revenue reports for products, or customers in a given period (e.g. a week, a month, or a quarter...)