Algorithm for module 1

**For function sign up**

1- Read name and password

2- Search for name in primary index file

3- If name found print message" you already exist "else make new record with this name and password in User.dat file

4- Update primary index file

**For function log in**

1- Read name and password

2- Search for user name in primary index file

3- If user name found, get its password from User.dat file

4- If this password match the user password, allow to log in system, else print message "you must sign up first"

**For function promote**

1- Print all cashiers

2- Select one of them to promote to admin

3- Search in primary index file then get position

3- Open User.dat file and update this cashier to admin

**For function delete:**

1- Print all cashiers

2- Select one of them to delete

3- Delete this cashier from user.dat file

Algorithm for Module #2

After Modification

1. **(Modified) View bills by date**

* The user enters the date he wants to check.
* We search for the date in the vector we load.
* We search for if using primary index and then print the information.

1. **(Modified) View bills by cashier**

* Search for the cashier name.
* Prints all the bills of the cashier.

1. **(New) Change password**

* The user enters the name
* And then enter the password and rewrite the password on the file

Algorithm for Module #3

After Modification

1. **(Modified) Create New Bill**

**- Enter the bill using function called get bill as a method in the class “Bill”**

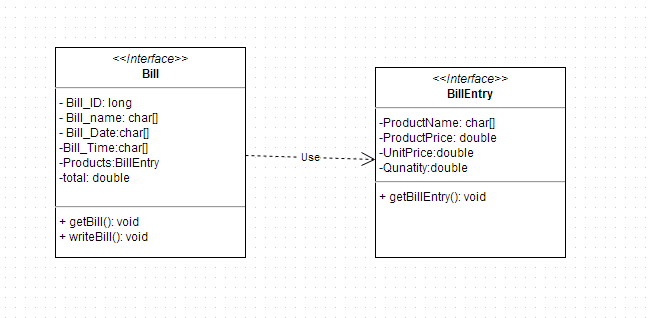
**- Enter the bill entries using method in class “bill Entry”.**

**- After finish entering the bill the function writeBill enter the bill data on a file.**

**2. (Modified) View Cashier Bills of the Day**

**- The file checks the current date and return all the bills in it.**

**UML**

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