
LALAJI MEMORIAL OMEGA INTERNATIONAL SCHOOL

Computer Science Project on:

LLOYDS BAKERY BAKERY MANAGEMENT SYSTEM

BY

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ACKNOWLEDGEMENT

The satisfaction and euphoria of the successful completion of any task would be incomplete without the mention of the people who made it possible. The constant guidance of these people and encouragement provided by them crowned my efforts with success and glory.

I consider it as a privilege to express my gratitude to all those who led and guided me in the course of this project.

First and foremost I would like to express my gratitude to the members of the **Management** of my school for making it possible for me to be a part of this project.

I would like to convey my sincere regards to **Mr.S.Vetrikumaran**, my internal guide for his valuable suggestion and necessary guidance during the course of the project.

I would also like to extend my sincere esteems to **Mrs. C.Jayapriya**, Lab Assistant for her timely support.

Last but not the least I thank my **Parents** and **friends** who had been constant source of inspiration for the completion of this project.

With this in my mind, I submit my project and hope that it fulfills the expectations of the examiner and anyone who views the project.

Yours faithfully,

G.RAMANA BHARATHI

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SYNOPSIS

Project specifications:

Lloyds Bakery

Design and Develop an Online Bakery

There should be 2 types of user level: **Administration and user.**

The inventory module should consist of the following fields:

- Item Number
- Items [Snacks/Pastry/Chocolates& Dessert/Cheese & Dairy]
- Price
- Quantity
- Mfg Date & Exp date

The access is given to **Administrator** alone. An Administrator should be able to

- Create, Modify and Delete Foods
- Search on Food Number/Food Name

The Sales module should consist of the following fields:

- Date
- Item Number
- Food Name
- Quantity
- Price
- Total Cost

This module is accessible by **Administrator and User.**

The Administrator should be able to

- Create, Modify and Delete items

The User should be able to

- Create, Modify items

At the end of the day,

- The sum of quantities of a particular Food in the sales module should be tallied with the Inventory module and report should be generated on the current stock of Foods.
- The total cost in the sales module should be tallied with the sum of the prices of individual Foods sold.

Project overview:

The functionality for this project consists of inventory management and sales management for a bakery (implemented using concept of binary files)

There are two access levels (as per the requirement) - Administrator and user.

Admin has full access to both the functionalities while user has restricted access only to the sales management.

The project illustrates the following concepts of OOPs:

- Modularity(through specific functions)
- Inheritance (hierarchical)
- Polymorphism(through function overloading)
- Data abstraction (through access specifiers /visibility mode)
- Data encapsulation (through classes)

FILES USED

File used for saving inventory details: **inventory.dat**

File used for saving sales details: **sales.dat**

CLASSES AND FUNCTIONS

Classes:

- product
- inventory
- sales

Functions:

1. Interface functions:

- welcome_screen();
- main_screen();
- user_window();
- admin_window();
- inventory_window();
- sales_window_a();
- sales_window_u();
- redir_mainscr();
- try_again();
- exit_screen();

2. Member functions:

- ❖ class product
 - getpro()
 - putpro()
 - ret_itemno()
 - ret_itemname()
 - ret_qty()
 - ret_price()

- ❖ class inventory
 - inv_credibility_check()
 - get_inv()
 - put_inv()
 - upd_inv()
 - changeqty()
 - ret_manu_date()
 - ret_exp_date()
- ❖ class sales
 - sales_credibility_check()
 - get_sales()
 - put_sales()
 - upd_sales()

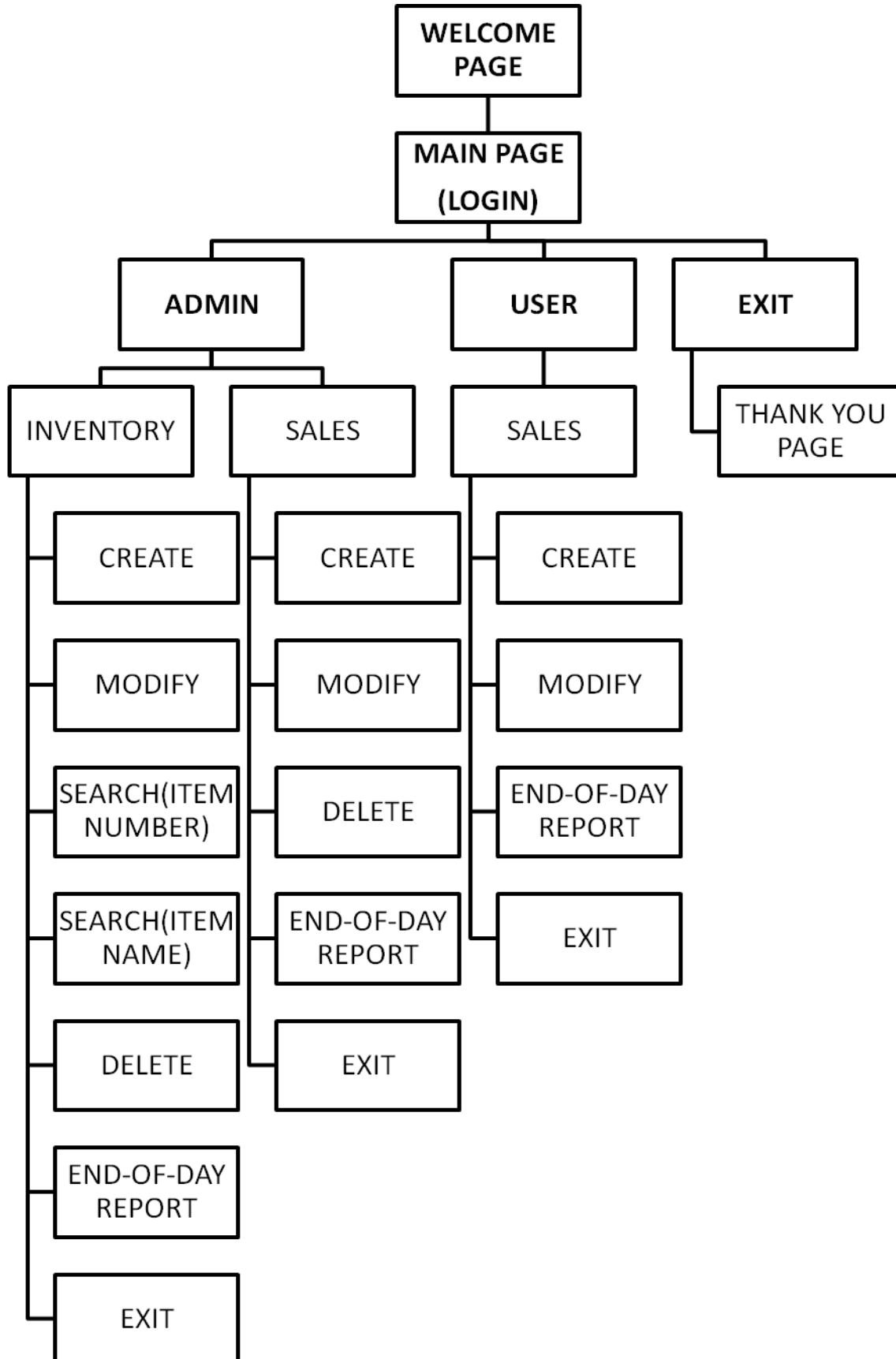
3. Friend functions:

- inv_search()
(Overloaded)
- sales_search()
(Overloaded)
- get_date()
- date_cmp()
- no_of_days()

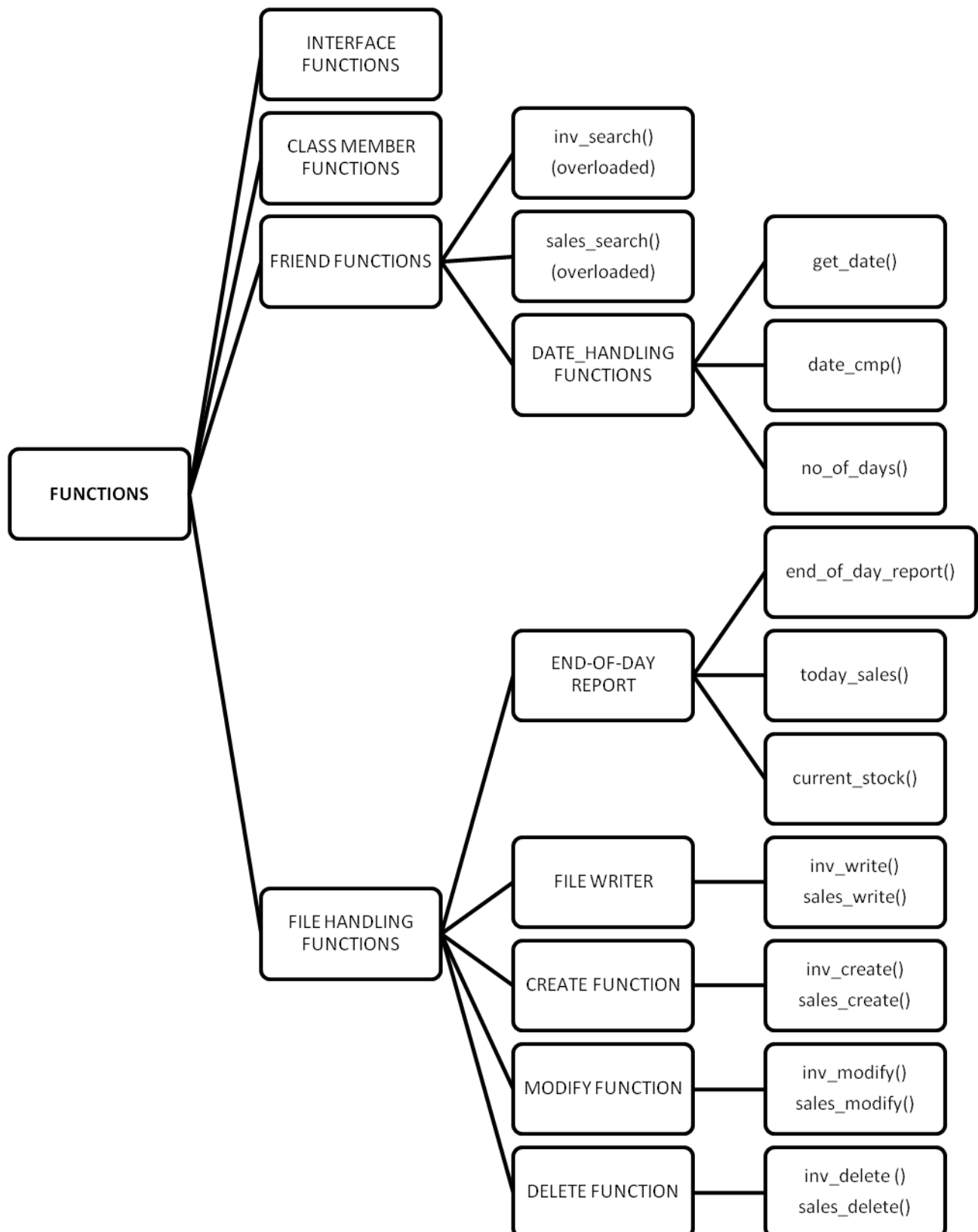
4. File Handling Functions:

- today_sales()
- current_stock()
- end_of_day_report()
- inv_write()
- sales_write()
- inv_create()
- sales_create()
- inv_modify()
- sales_modify()
- inv_delete ()
- sales_delete()

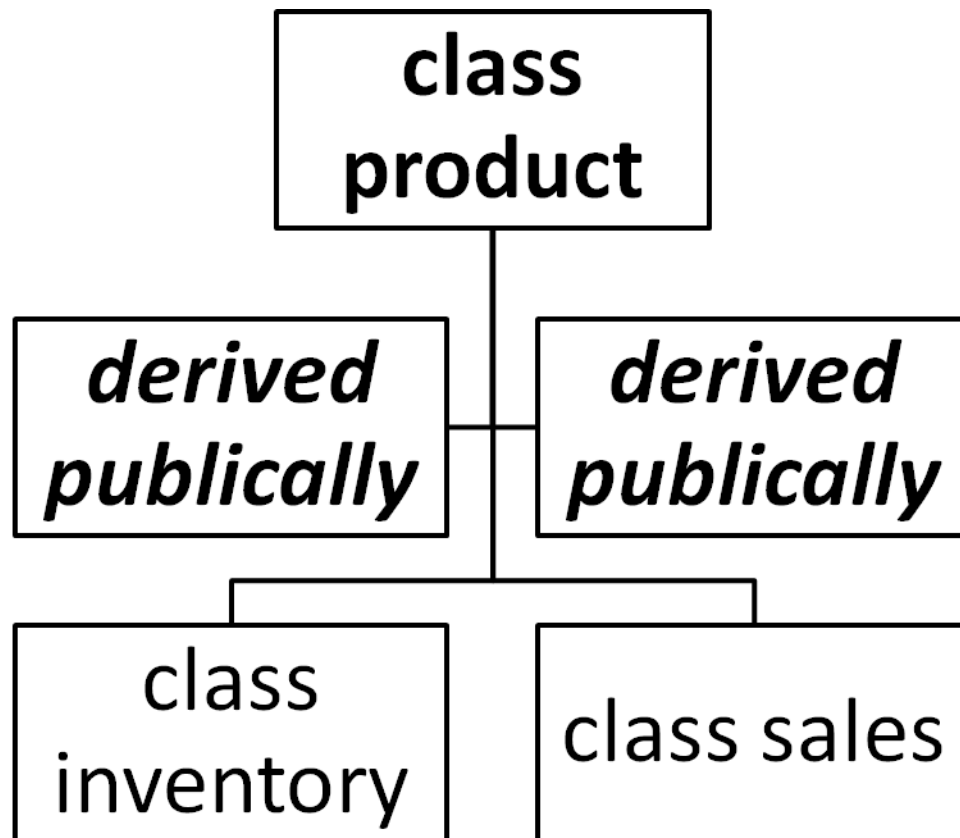
FLOW CHART



Functions:

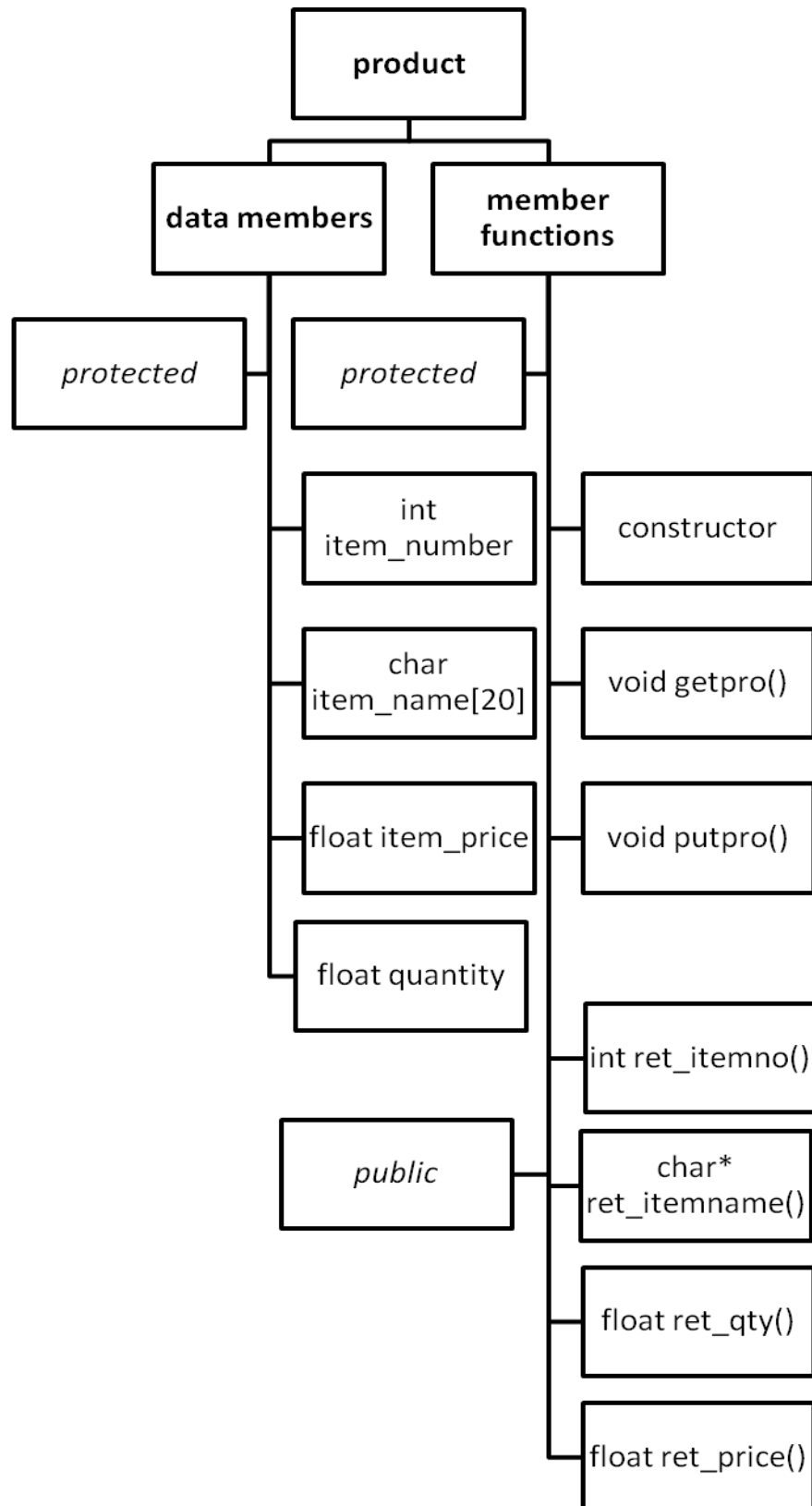


Class inheritance:

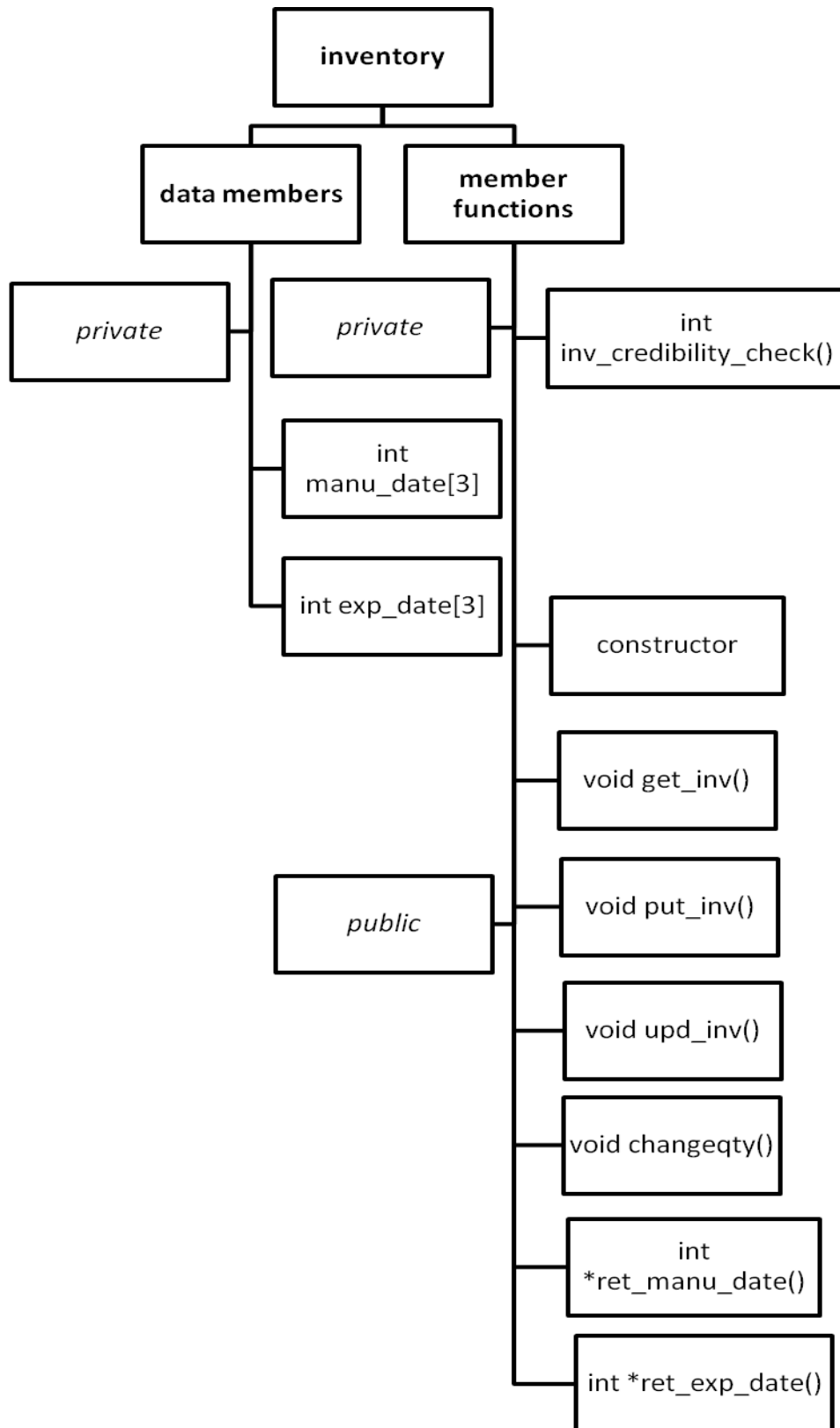


Individual classes with members:

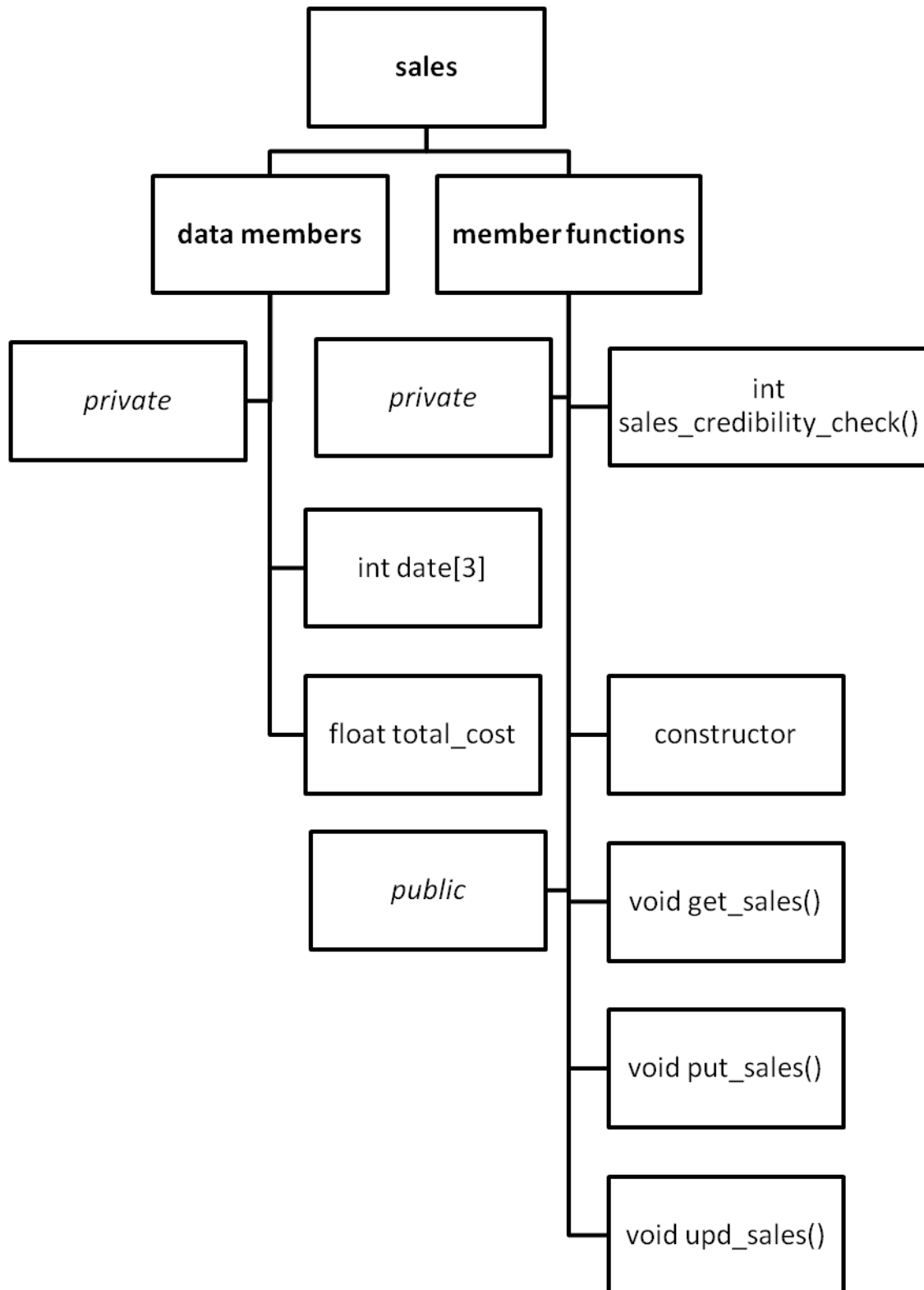
- class product



- class inventory



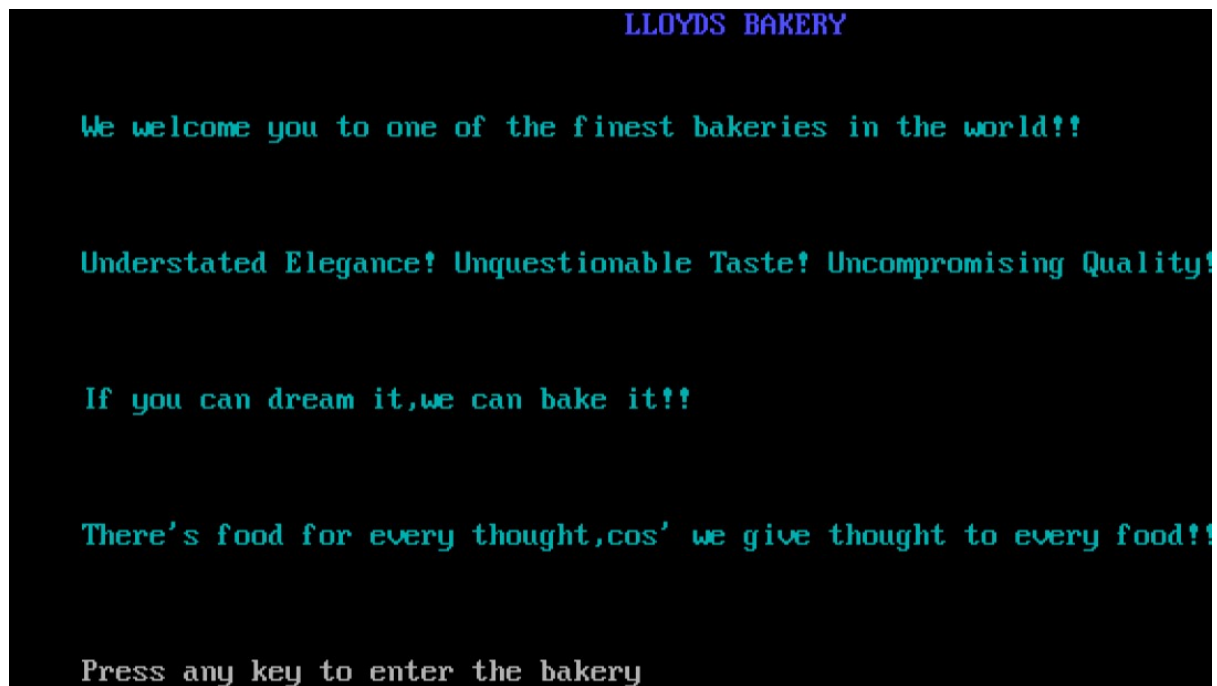
- class sales



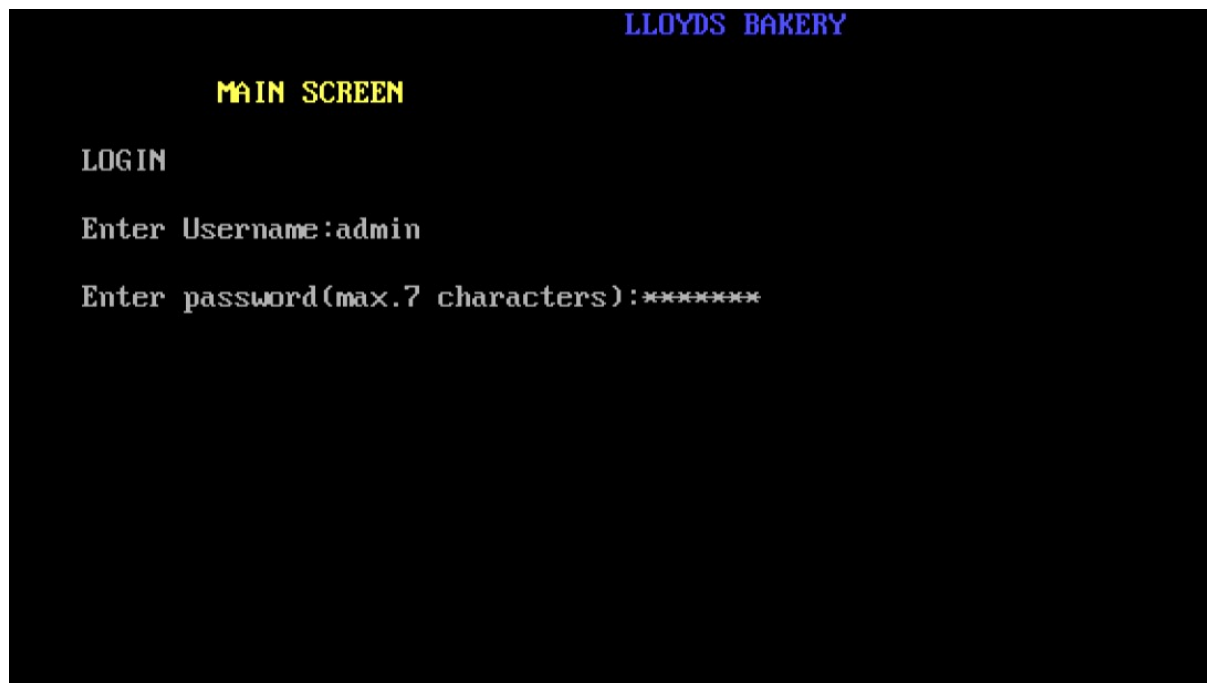
SOURCE CODE

SAMPLE SCREENSHOTS

Welcome screen



Main screen(login)-Admin login



Admin window

```
      Welcome Admin
Select a place:
1.Inventory
2.Sales
3.exit

Enter the choice(1/2/3):1
```

Create a food item

```
      Welcome to Inventory window
Select an action:
1.Create fooditems
2.Search a fooditem using item number
3.Search a fooditem using food name
4.Modify a fooditem's details
5.Delete a fooditem
6.View END-OF-DAY reports
7.Exit
Enter the choice(1/2/3/4/5/6/7):1
```


Create fooditems

Enter the Item number:1001
Enter the Item name:Red velvet cake
Enter the item price(in Rs.):800
Enter the Quantity of the item(in Kg/in count):10
Enter date of manufacturing of the item (dd/mm/yyyy):21/1/2019
Enter date of expiry of the item (dd/mm/yyyy):30/1/2019
Want to enter more?(y/n):y

Enter the Item number:2001
Enter the Item name:Choco chip cookies
Enter the item price(in Rs.):5
Enter the Quantity of the item(in Kg/in count):10000
Enter date of manufacturing of the item (dd/mm/yyyy):21/1/2019
Enter date of expiry of the item (dd/mm/yyyy):11/2/2019
Want to enter more?(y/n):y

Enter the Item number:3001
Enter the Item name:Bread loaf

Food items successfully created!

Do you wish to:

- 1.Perform another action
- 2.Return to admin window
- 3.Logout
- 4.Exit

Enter the choice(1/2/3/4):1_

Search a fooditem using item number

```
      Welcome to Inventory window
Select an action:
1.Create fooditems
2.Search a fooditem using item number
3.Search a fooditem using food name
4.Modify a fooditem's details
5.Delete a fooditem
6.View END-OF-DAY reports
7.Exit
Enter the choice(1/2/3/4/5/6/7):2
```

Search a fooditem using item number

```
Enter Item number to be searched:1001
searched record contents:
Item Number:1001      Item name:Red velvet cake
Item price:800  Item quantity:10
Date of manufacturing(dd/mm/yyyy):21/1/2019
Date of expiry(dd/mm/yyyy):30/1/2019
```

```
Do you wish to:
1.Perform another action
2.Return to admin window
3.Logout
4.Exit
Enter the choice(1/2/3/4):1
```

Search a fooditem using food name

```
      Welcome to Inventory window
Select an action:
1.Create fooditems
2.Search a fooditem using item number
3.Search a fooditem using food name
4.Modify a fooditem's details
5.Delete a fooditem
6.View END-OF-DAY reports
7.Exit
Enter the choice(1/2/3/4/5/6/7):3_
```

Search a fooditem using item name

```
Enter the name of the fooditem to be searched:Bread loaf
searched record contents:
Item Number:3001      Item name:Bread loaf
Item price:40    Item quantity:100
Date of manufacturing(dd/mm/yyyy):21/1/2019
Date of expiry(dd/mm/yyyy):28/1/2019

Do you wish to:
1.Perform another action
2.Return to admin window
3.Logout
4.Exit
Enter the choice(1/2/3/4):1
```

Modify a fooditem's details

```
      Welcome to Inventory window
Select an action:
1.Create fooditems
2.Search a fooditem using item number
3.Search a fooditem using food name
4.Modify a fooditem's details
5.Delete a fooditem
6.View END-OF-DAY reports
7.Exit
Enter the choice(1/2/3/4/5/6/?):4_
```

```
      Modify a fooditem

Enter the Item number to be searched:3001
searched record contents:
Item Number:3001      Item name:Bread loaf
Item price:40   Item quantity:0
Date of manufacturing(dd/mm/yyyy):21/1/2019
Date of expiry(dd/mm/yyyy):28/1/2019

Enter New data
Note:
Only item name,price,quantity and dates of manufacturing and expiry
ed
Enter the Item name:Bread loaf
Enter the price of the item(in Rs.):45
Enter the Quantity of the item(in Kg/in count):150
Enter date of manufacturing of the item (dd/mm/yyyy):21/1/2019
Enter date of expiry of the item (dd/mm/yyyy):2/2/2019
```

```
updataion successful!  
Do you wish to:  
1.Perform another action  
2.Return to admin window  
3.Logout  
4.Exit  
Enter the choice(1/2/3/4):1_
```

Delete a fooditem

```
        Welcome to Inventory window  
Select an action:  
1.Create fooditems  
2.Search a fooditem using item number  
3.Search a fooditem using food name  
4.Modify a fooditem's details  
5.Delete a fooditem  
6.View END-OF-DAY reports  
7.Exit  
Enter the choice(1/2/3/4/5/6/7):5
```

Delete a fooditem

```
Enter the Item number to be searched:1001
searched record contents:
Item Number:1001      Item name:Red velvet cake
Item price:800  Item quantity:10
Date of manufacturing(dd/mm/yyyy):21/1/2019
Date of expiry(dd/mm/yyyy):30/1/2019

Are you sure u want to delete this record(y/n)?y_
```

```
Record deleted successfully!
Do you wish to:
1.Perform another action
2.Return to admin window
3.Logout
4.Exit
Enter the choice(1/2/3/4):_
```

Create a sale entry

```
        Welcome to Sales window
Select an action:
1.Create a sale entry
2.Modify a sale entry
3.Delete a sale entry
4.View END-OF-DAY reports
5.Exit
Enter the choice(1/2/3/4/5):1_
```

```
        Create sale entry

Enter the Item number:2001
Enter the Quantity(in Kg/in count):100
Enter the sales date(dd/mm/yyyy):22/1/2019
Want to enter more?(y/n):y

Enter the Item number:3001
Enter the Quantity(in Kg/in count):100
Enter the sales date(dd/mm/yyyy):24/1/2019
Want to enter more?(y/n):n_
```

```
sale entries successfully created!
Do you wish to:
1.Perform another action
2.Return to admin window
3.Logout
4.Exit
Enter the choice(1/2/3/4):1_
```

Modify a sale entry

```
        Welcome to Sales window
Select an action:
1.Create a sale entry
2.Modify a sale entry
3.Delete a sale entry
4.View END-OF-DAY reports
5.Exit
Enter the choice(1/2/3/4/5):2
```


Modify a sale entry

Enter the Item number to be searched:3001

searched record contents:

Item Number:3001 Item name:Bread loaf

Item price:40 Item quantity:100

Sales date(dd/mm/yyyy):24/1/2019 Total cost:4000

Is this the record to be modified(y/n)?y

Enter New data

Note:Only quantity and date can be changed

Enter the Quantity of the item(in Kg/in count):50

Enter the sales date(dd/mm/yyyy):24/1/2019

updataion successful!

Do you wish to:

1.Perform another action

2.Return to admin window

3.Logout

4.Exit

Enter the choice(1/2/3/4):1_

Delete a sale entry

```
        Welcome to Sales window
Select an action:
1.Create a sale entry
2.Modify a sale entry
3.Delete a sale entry
4.View END-OF-DAY reports
5.Exit
Enter the choice(1/2/3/4/5):3_
```

Delete a sale entry

```
Enter the Item number to be searched:3001
searched record contents:
Item Number:3001      Item name:Bread loaf
Item price:40   Item quantity:50
Sales date(dd/mm/yyyy):24/1/2019      Total cost:2000

Is this the record to be deleted(y/n)?n
Do you wish to continue search(y/n)?y
searched record contents:
Item Number:3001      Item name:Bread loaf
Item price:45   Item quantity:10
Sales date(dd/mm/yyyy):26/1/2019      Total cost:450

Is this the record to be deleted(y/n)?y
Are you sure u want to delete this record(y/n)?y_
```

```
Record deleted successfully!
Do you wish to:
1.Perform another action
2.Return to admin window
3.Logout
4.Exit
Enter the choice(1/2/3/4):1_
```

View END-OF-DAY report(similar for admin and user)

```
        Welcome to Sales window
Select an action:
1.Create a sale entry
2.Modify a sale entry
3.Delete a sale entry
4.View END-OF-DAY reports
5.Exit
Enter the choice(1/2/3/4/5):4
```

END-OF-DAY REPORT

Enter today's date(dd/mm/yyyy):24/1/2019

Today's sales:

Item Number:3001	Item name:Bread loaf
Item price:40	Item quantity:100
Sales date(dd/mm/yyyy):24/1/2019	Total cost:4000

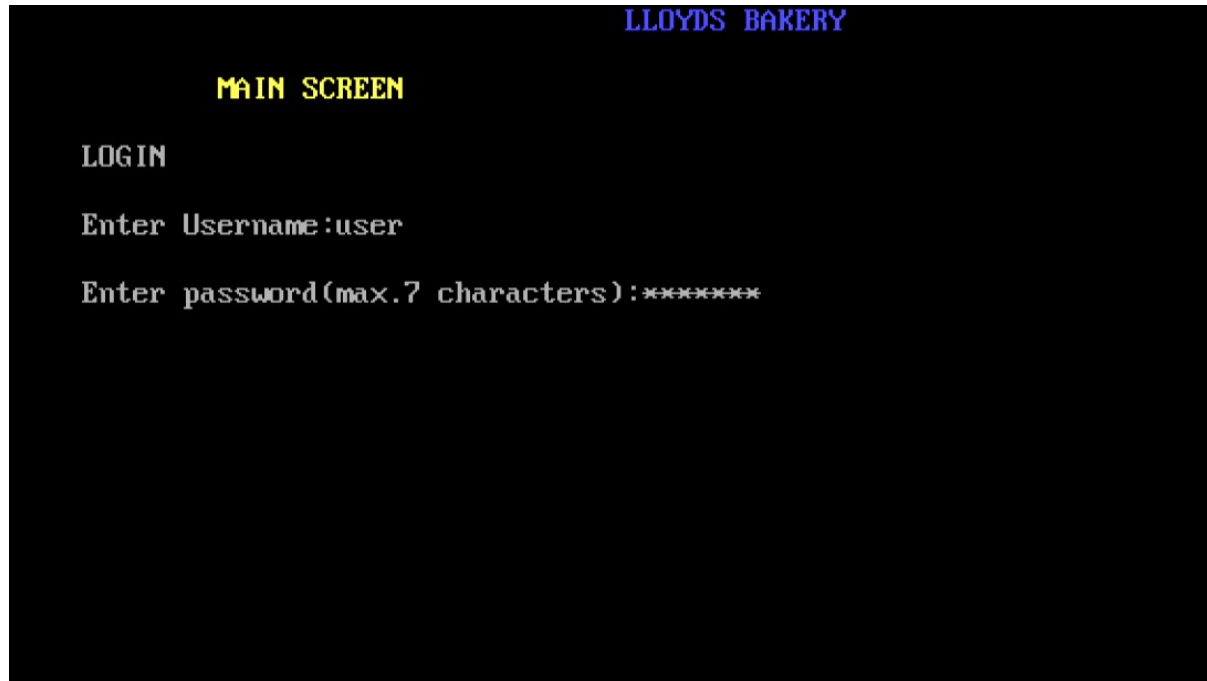
Press any key to continue_

Current stock:

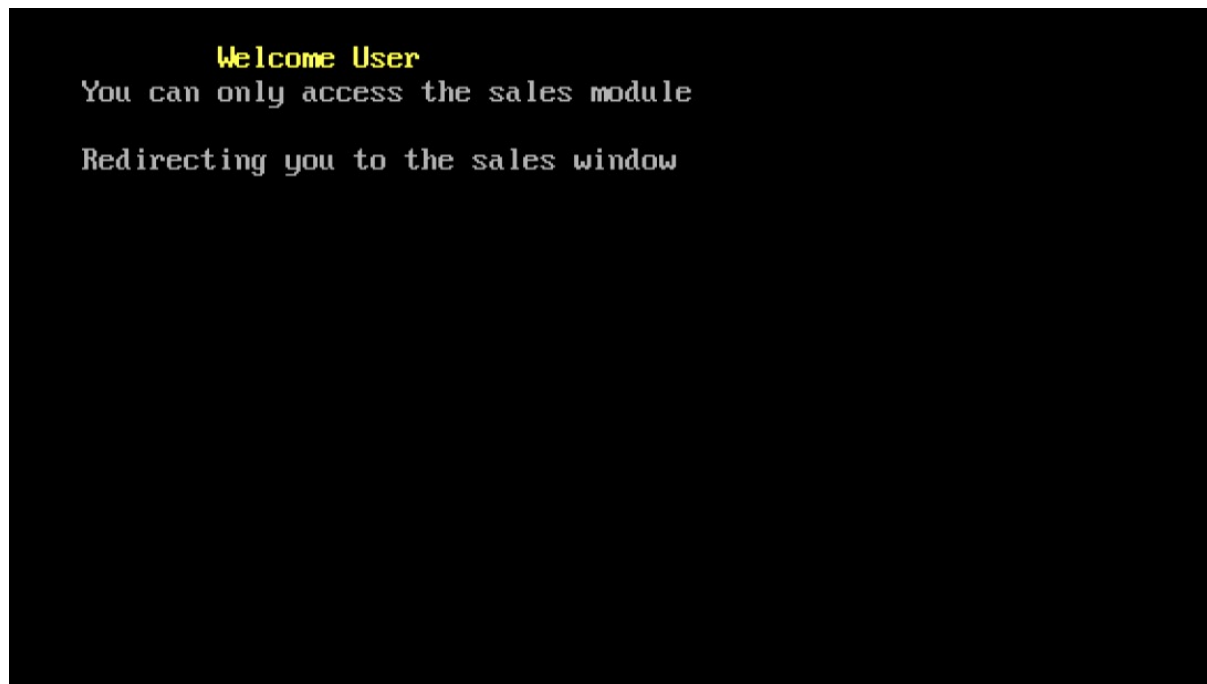
Item Number:1001	Item name:Red velvet cake
Item price:800	Item quantity:10
Date of manufacturing(dd/mm/yyyy):21/1/2019	
Date of expiry(dd/mm/yyyy):30/1/2019	
Item Number:2001	Item name:Choco chip cookies
Item price:5	Item quantity:9900
Date of manufacturing(dd/mm/yyyy):21/1/2019	
Date of expiry(dd/mm/yyyy):11/2/2019	
Item Number:3001	Item name:Bread loaf
Item price:40	Item quantity:0
Date of manufacturing(dd/mm/yyyy):21/1/2019	
Date of expiry(dd/mm/yyyy):28/1/2019	

Do you wish to:

Main screen(login)-User login



User window



Sales window

```
        Welcome to Sales window
Select an action:
1.Create a sale entry
2.Modify a sale entry
3.View END-OF-DAY reports
4.Exit
Enter the choice(1/2/3/4):_
```

*Creation and modification of sale entry for user and admin are similar.

Exit screen

```
                LLOYDS BAKERY

We hope we had met your your expectations and demands successfully
We deeply regret any inconveniences if any
We would be delighted to hear your remarks
or suggestions as to improve our bakery for your pleasant experience

Would you like to leave a remark(y/n)y

Enter your remarks here(enter # to end your remark):
Your bakery is simply awesome!!
Keep it up!!#

Thank you for visiting our bakery.Hope you visit us again soon!!
Press any key to exit
```