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| --- | --- | --- | --- | --- |
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| **Class:** F2 – 13 – 1605 – S0 |  | | | |
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|  |  |  | |  |

***Feb - 2017***

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**Wheely**

**Make it Grow**

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**REVIEW 1**

# ***Acknowledgement:***

We would like to thank Aptech Centre, which has helped us implement this subject.

Thanks to the guidance from our teacher – Mr. Le Thanh Nhan.

Finally, thanks to all members who participate in this Project.

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# **I. Introduction**

Wheely is a management software which helps us to manage small mobile shops. In this case, a bread selling shops. This is also considered a frame software which use for all kind of business chain.

# **II. Problem Definition**

* Provide mobile shop chain details
* Provide leader details
* Provide product details
* Make a daily report on revenue and expense for further strategy

**II.1. Existing Scenario.**

By unstoppable growing up, each bread shop has to serve more than 100 customers per day, and we have more than 500 shops like that. A huge data is need to be handled, and this software has to do the job.

**II.2. Propose Solution.**

There are two kinds of login into system following:

1. **Shop Leader:**

* Make a daily Revenue and Expense
* View their Shop profile
* View and update their own profile

1. **Admin:**

* Administrators have highest permission of system
* Creating Leader Profile and provide account
* Creating Mobile Shop Profile
* Creating Product
* View the statement per shop and per date

# **III. Customer Requirement Specification (CRS)**

## III.1. Shop Leader:

1. **Input:**

Revenue/Expense for making a daily cash flow report.

Their profile information

1. **Process:**

Add/Edit/Delete Revenue and Expense.

Update leader profile

1. **Output:**

Confirm create/ edit/ delete daily Revenue and Expense action

View their profile

View shop profile

View Revenue and Expense report

## III.2. Admin

1. **Input:**

Leader information

Shop information

Product Information

Shop ID and Date for searching statement

1. **Process:**

Add/Delete Leader profile.

Add/Edit/Delete shop.

Add/Edit/Delete product.

1. **Output:**

Confirm create/ edit/ delete Leader profile action

Confirm create/ edit/ delete mobile shop profile action

Confirm create/ edit/ delete mobile product action

View statement per date and per Shop ID

# **V. System Requirement Specification**

**Hardware**

* 1.0 GHz x86 Processor, Pentium III-compatible processor or faster.
* 1.4 GHz x64 Processor, AMD Opteron, AMD Athlon 64, Intel Xeon with Intel EM64T support, Intel Pentium IV with EM64T support or faster.
* 1.0 GB RAM. Recommended 2.0 GHz or faster.
* 2.0 GB of Hard disk free.
* Screen require VGA at least 1024x768 pixel resolution or higher.

**Software**

* Windows 7 32 or 64-bit. Recommended at least Windows Server 2003.
* Windows Installer 4.5 or a later version.
* SQL Server 2008.
* Netbeans 6.9 or later.
* JDK 1.4 or later.

**REVIEW 2**

1. **Data Flow Diagram:**

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**Figure: DFD level 0 – Context Diagram**

DFD Context Diagram of system includes:

* Two external: Admin, Shop Leader.
* One main process: Manager Mobile Shops System Process.

The operation of the system: When two external entities have requirement to system, they will send commands, the system will process and return the results for two external entities.

**Admin**

Admin takes responsibility for three processes:

Process 1: Manage Leader

* Add Shop Leader.
* Delete Shop Leader.
* View Shop Leader Information.
* One data store: Leader Information.

Process 2: Manage Shop Chain

* Add Shop Chain
* Update Shop Chain.
* Delete Shop Chain.
* View Shop profile.
* One data store: Shop Information.

Process 3: Manage Product Type

* Add Type
* Update Type
* Delete Type
* View Type
* One data store: Type Information.

**Shop Leader**

Leader takes responsibility for three processes:

Process1: Daily Revenue

* Add Revenue (once a day).
* Update Revenue (current date only).
* Delete Revenue (which is existed more than 10 years).
* View Revenue.
* One data store: daily Revenue information

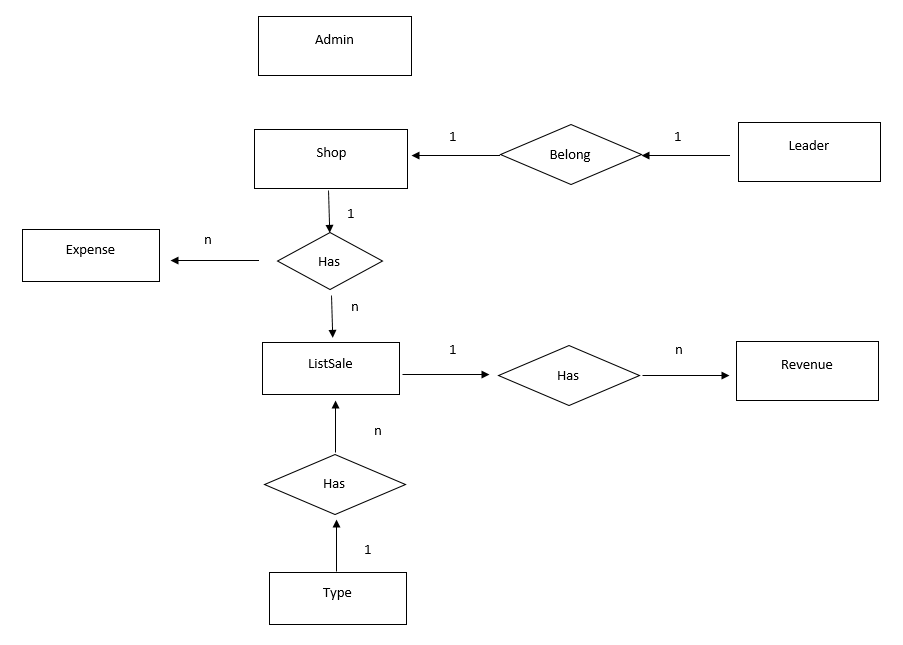
Process2: Daily Expense

* Add Expense (once a day).
* Update Expense (current date only).
* Delete Expense (which is existed more than 10 years).
* View Revenue.
* One data store: daily Revenue information

Process3: Update profile

* Update profile.
* One data store: Leader information

1. **Entity Relationship Diagram**

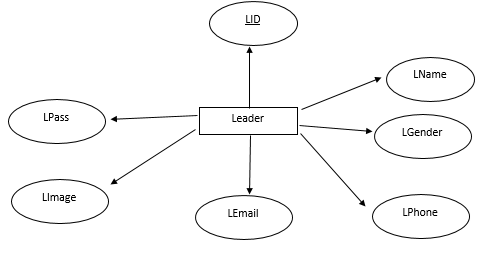


1. **Entity Details**

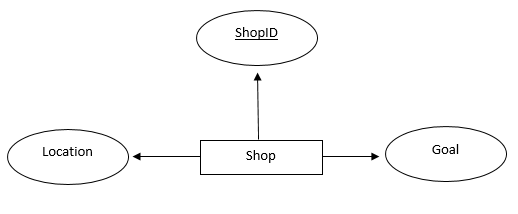
## III.1 Admin

****

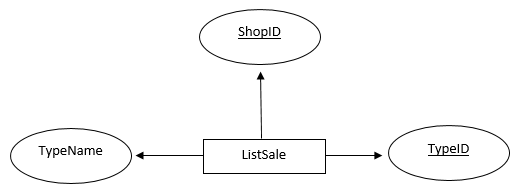
## III.2 Leader

****

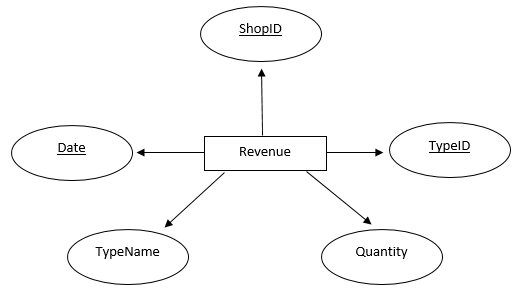
## III.3 Shop



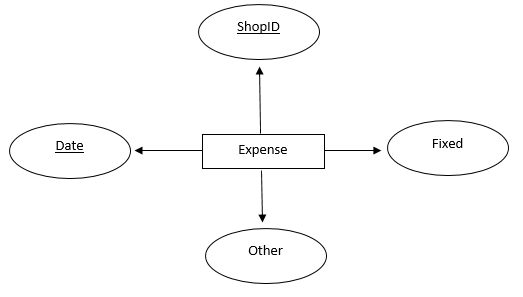
## III.4 ListSale

****

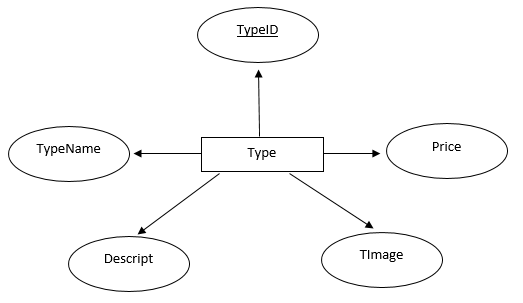
## III.5 Revenue

****

## III.6 Expense

****

## III.7 Type

****

# **IV. Table Design**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table: Admin** | | | | | |
| **Column Number** | **Column Name** | **Data Type** | **Key** | **Constraint** | **Description** |
| 1 | AdUser | varchar(20) |  | Not Null | Admin username |
| 2 | AdPass | varchar(20) |  | Not Null | Admin password |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table: Leader** | | | | | |
| **Column Number** | **Column Name** | **Data Type** | **Key** | **Constraint** | **Description** |
| 1 | LID | varchar(10) | Primary key | Not Null | Stores the identification number of Leader |
| 2 | LName | varchar(50) |  | Not Null | Full name |
| 3 | LBirth | varchar(30) |  | Not Null | Birthday |
| 4 | LGender | varchar(10) |  | Not Null | Gender |
| 5 | LPhone | varchar(20) |  | Not Null | Phone number |
| 6 | LEmail | varchar(50) |  | Not Null  Unique | Email |
| 7 | LPass | varchar(20) |  | Not Null | Password |
| 8 | LImage | varchar(50) |  | Not Null | Image of leader |
| 9 | ShopID | varchar(10) | Foreign Key | Not Null | Stores the identification number of Shop |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table: Shop** | | | | | |
| **Column Number** | **Column Name** | **Data Type** | **Key** | **Constraint** | **Description** |
| 1 | ShopID | varchar(10) | Primary key | Not Null | Stores the identification number of Shop |
| 2 | Location | varchar(50) |  | Not Null | Location working of shop |
| 3 | Goal | int |  | Not Null | The daily business goal which shop must achieve |

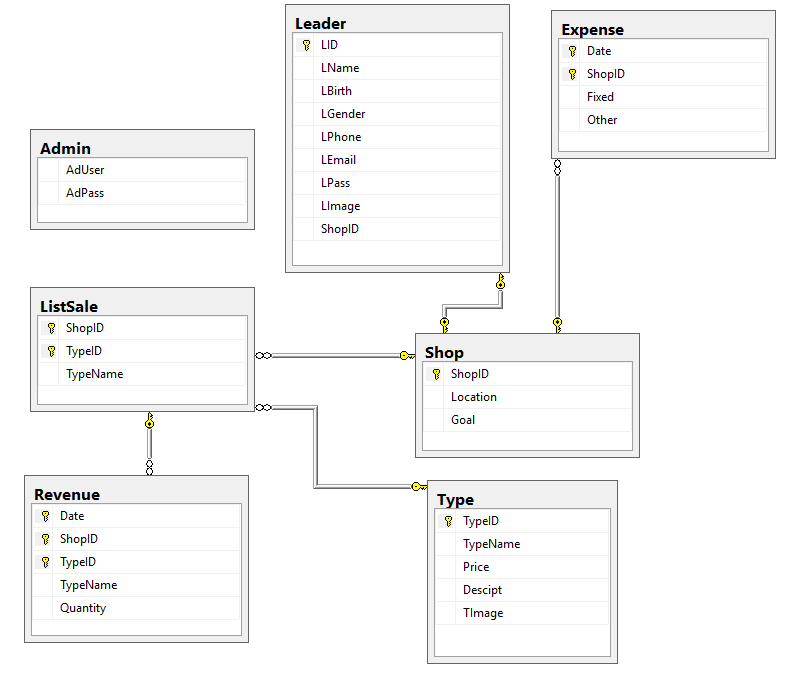
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table: ListSale** | | | | | |
| **Column Number** | **Column Name** | **Data Type** | **Key** | **Constraint** | **Description** |
| 1 | ShopID | Varchar(10) | Primary key | Not Null | Stores the identification number of Shop |
| 2 | TypeID | Varchar(10) | Primary Key, Foreign Key | Not Null | Stores the identification number of Product Type |
| 3 | TypeName | Varchar(30) |  | Not Null | Name of product |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table: Revenue** | | | | | |
| **Column Number** | **Column Name** | **Data Type** | **Key** | **Constraint** | **Description** |
| 1 | Date | Date | Primary key | Default | Stores the current date of making revenue |
| 2 | ShopID | Varchar(10) | Primary Key, Foreign Key | Not Null | Stores the identification number of Shop |
| 3 | TypeID | Varchar(10) | Primary Key, Foreign Key | Not Null | Stores the identification number of Product Type |
| 4 | TypeName | Varchar(30) |  | Not Null | Name of product |
| 5 | Quantity | Int |  | Not Null |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table:Expense** | | | | | |
| **Column Number** | **Column Name** | **Data Type** | **Key** | **Constraint** | **Description** |
| 1 | Date | Date | Primary key | Default | Stores the current date of making revenue |
| 2 | ShopID | Varchar(10) | Primary Key, Foreign Key | Not Null | Stores the identification number of Shop |
| 3 | Fixed | Int |  | Not Null | Fixed cost |
| 4 | Other | Int |  | Not Null | Other cost |

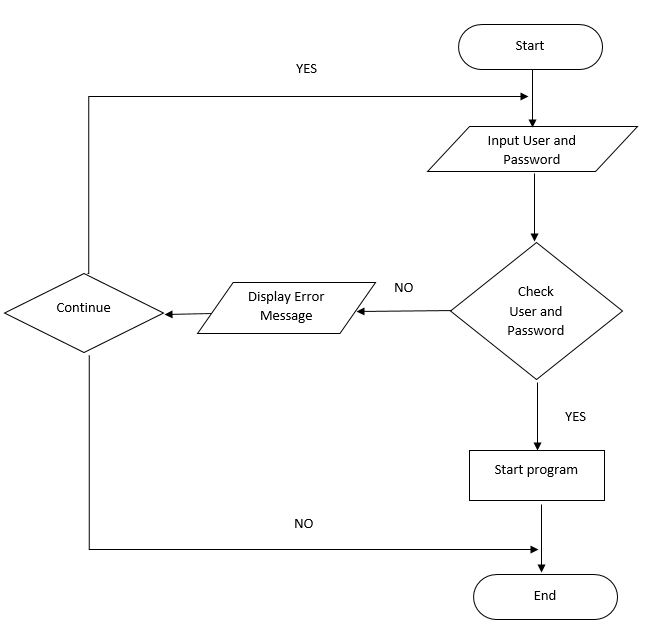
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Table:Type** | | | | | |
| **Column Number** | **Column Name** | **Data Type** | **Key** | **Constraint** | **Description** |
| 1 | TypeID | Varchar(10) | Primary Key | Not Null | Stores the identification number of Product Type |
| 2 | TypeName | Varchar(30) |  | Not Null | Name of product |
| 3 | Price | Int |  | Not Null | Price of product |
| 4 | Descript | Varchar(50) |  |  | Description of product |
| 5 | Timage | Varchar(50) |  |  | Image of product |

# **V.Database Relationship Diagram**

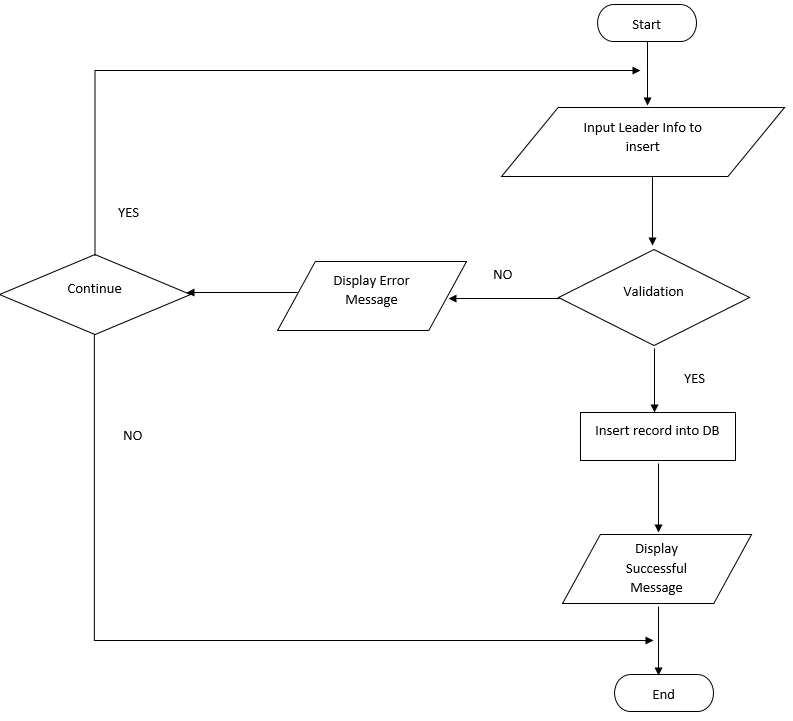
****

# **VI.Algorithm.**

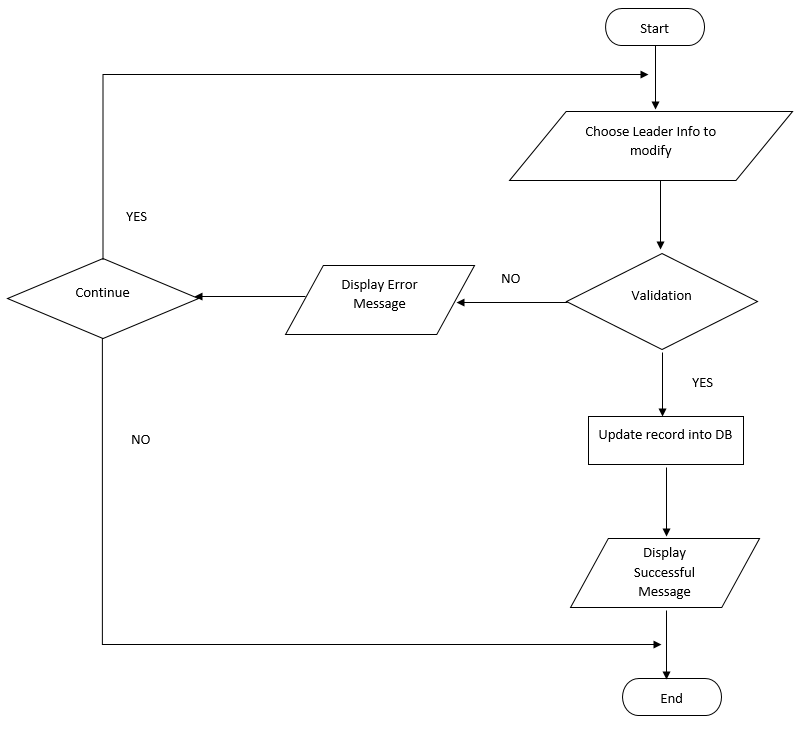
## VI.1. Login

****

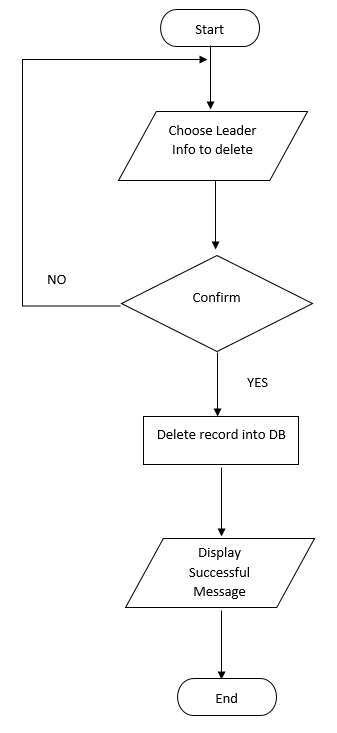
## VI.2.1 New Leader.

****

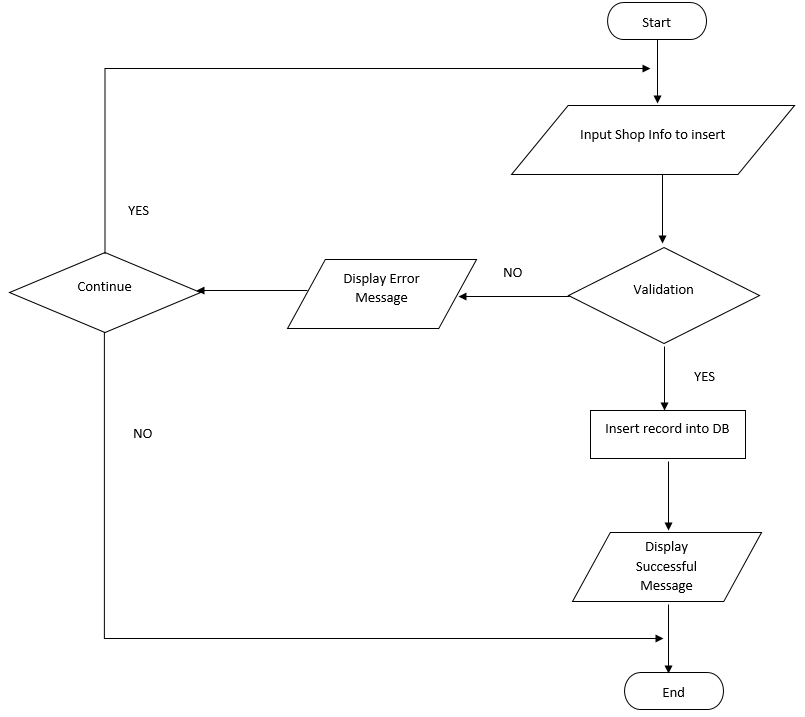
## VI. 2.2. Update Leader.

****

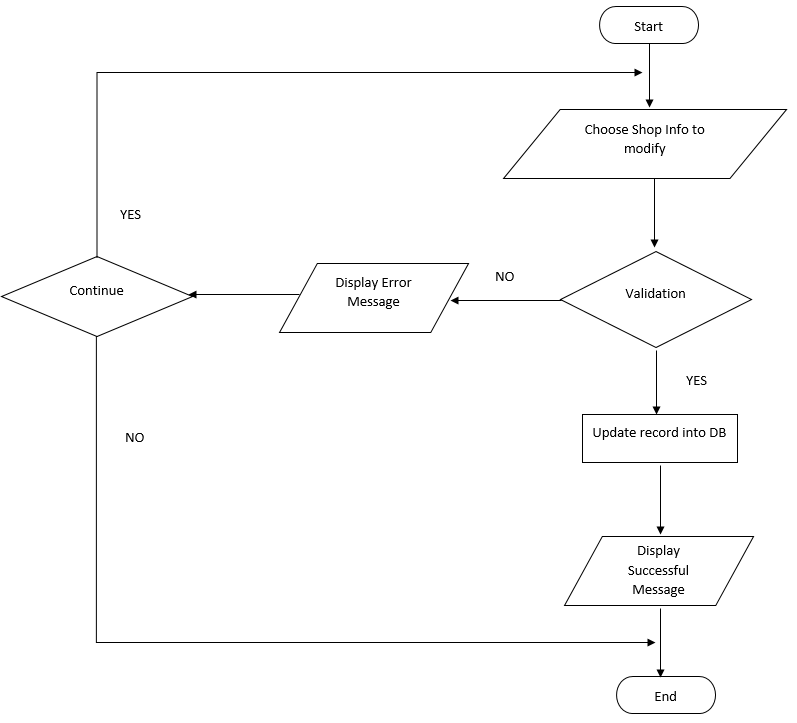
## VI.2.3. Delete Leader.

****

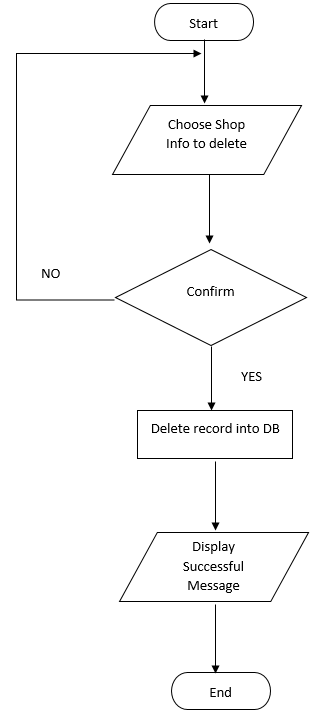
## VI.3.1. New Shop.

****

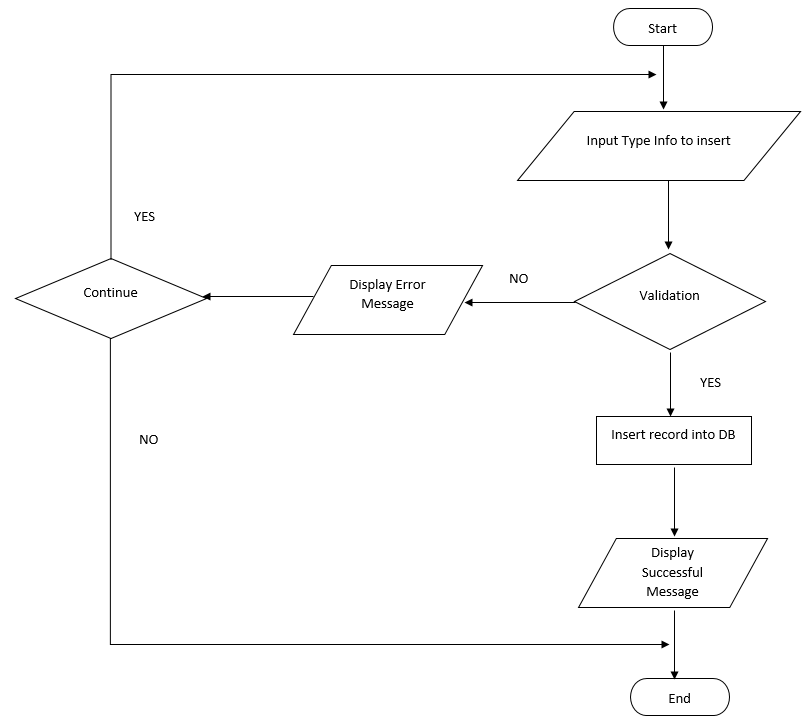
## VI.3.2. Update Shop.

****

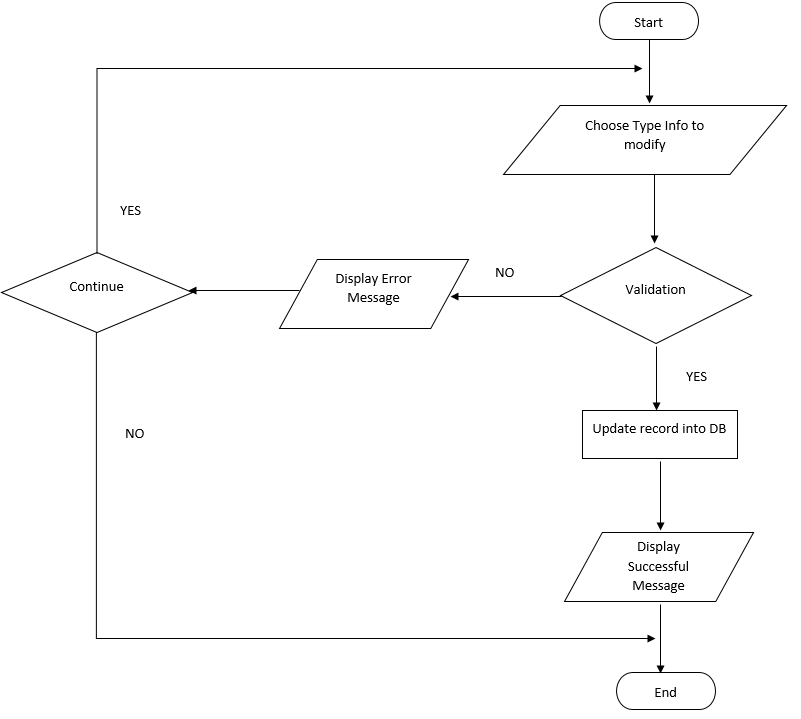
## VI. 3.3. Delete Mobile Shop.

****

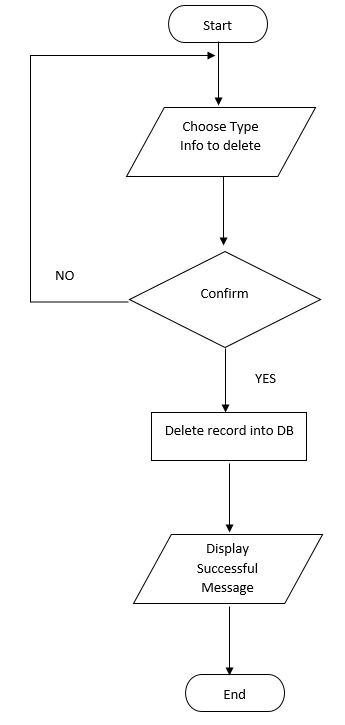
## VI.4.1. New Type.

****

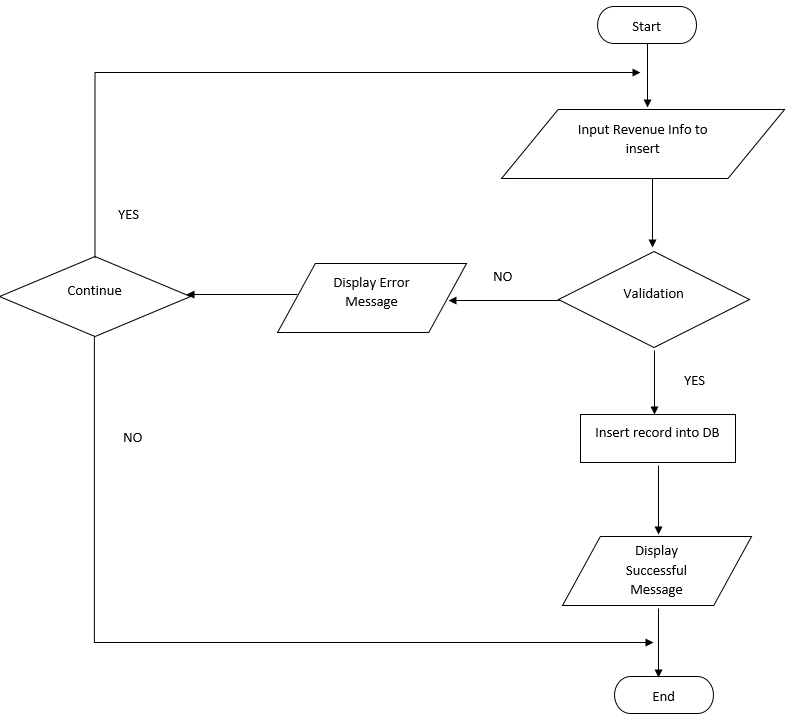
## VI. 4.2. Update Type.

****

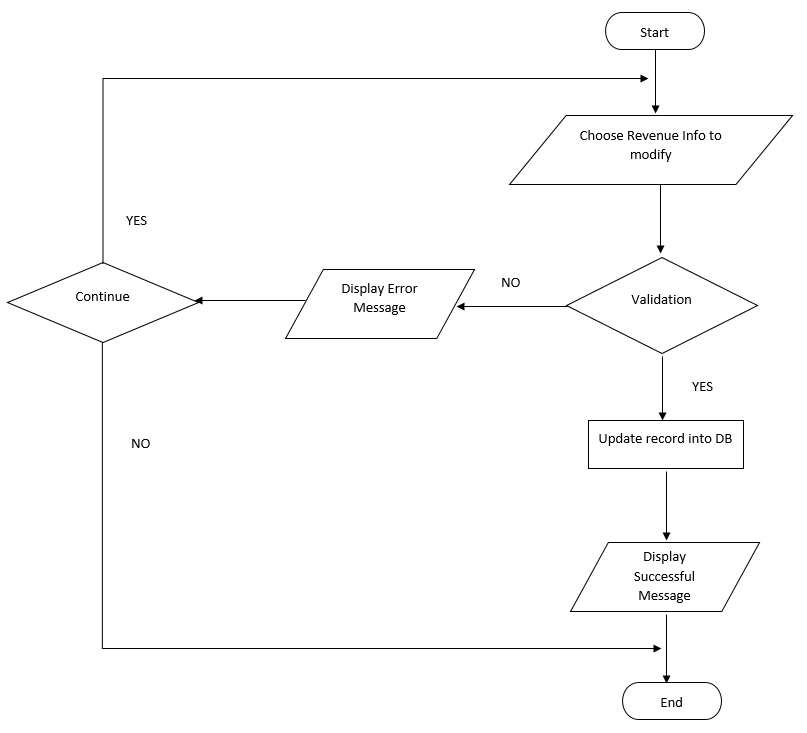
## VI. 4.3. Delete Type.

****

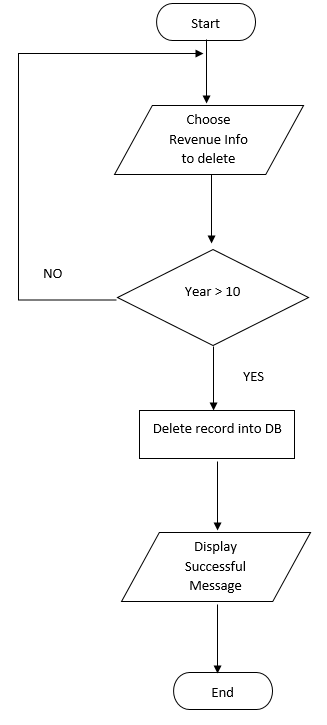
## VI. 5.1. New Revenue

****

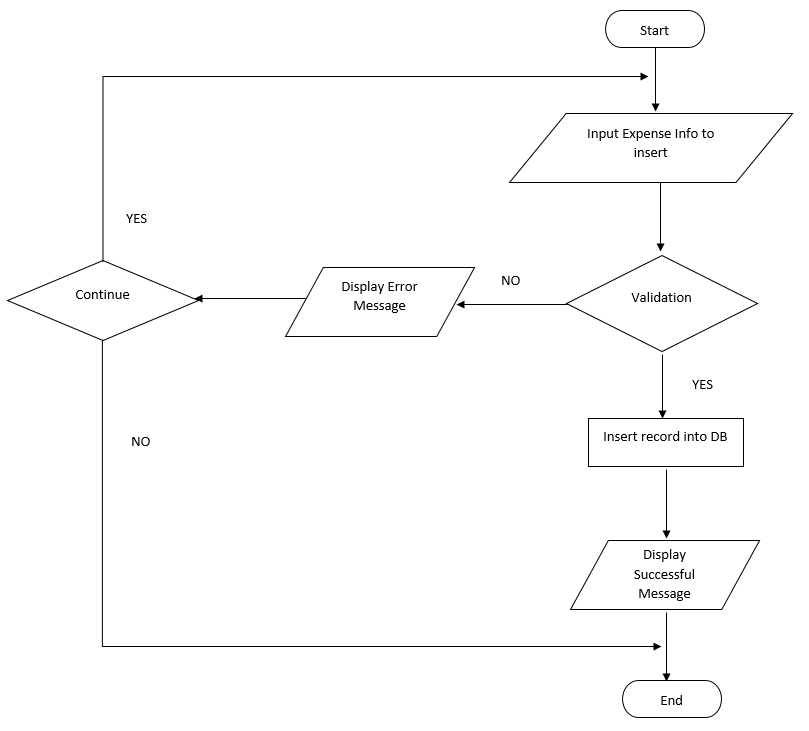
## VI .5.2. Update Revenue

****

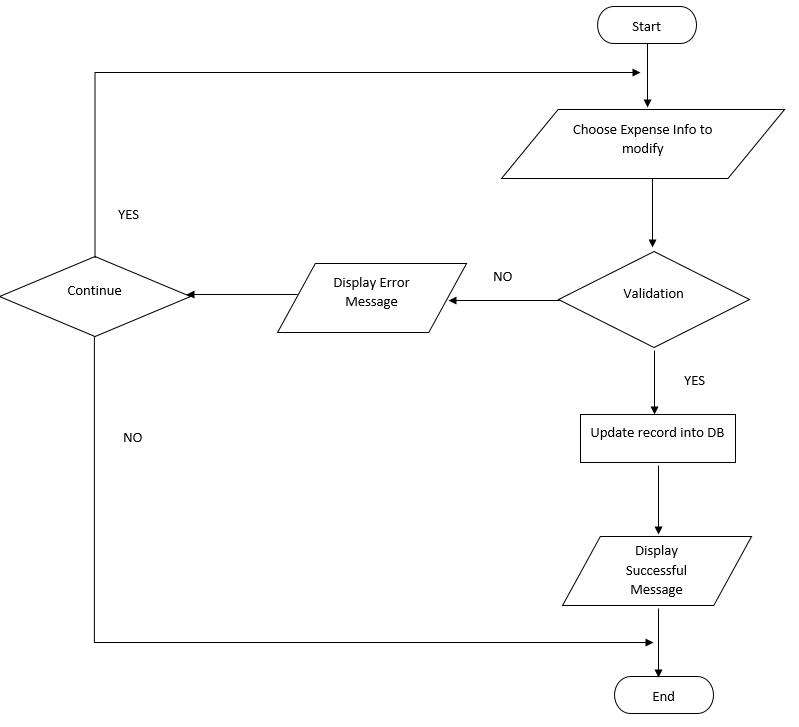
## VI . 5.3. Delete Revenue

****

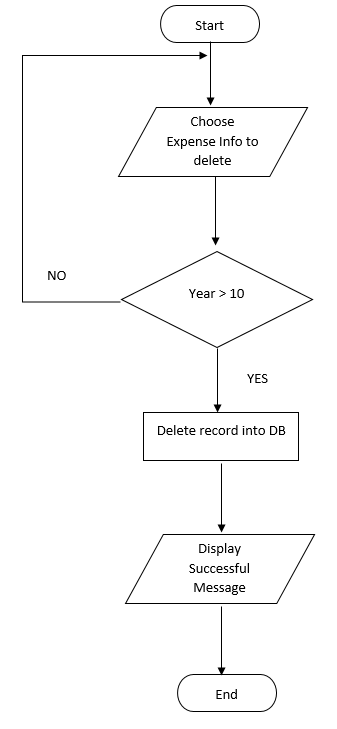
## VI. 6.1. New Expense

****

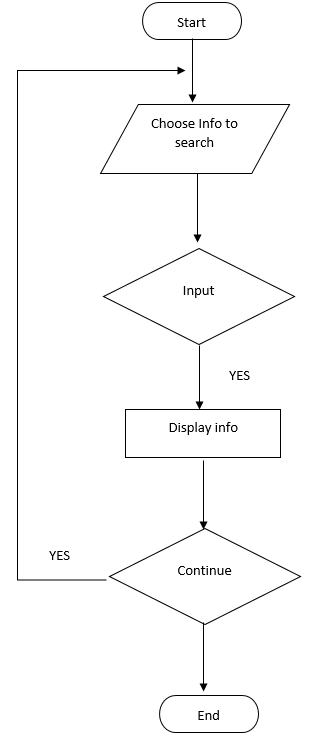
## VI. 6.2. Update Expense

****

## VI. 6.3. Delete Expense

****

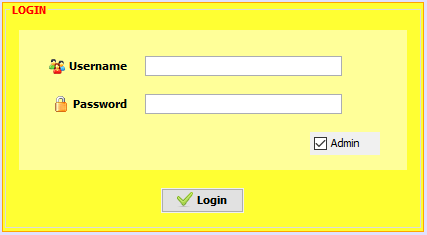
## VI. 7.1. Search Information.

****

**REVIEW 3**

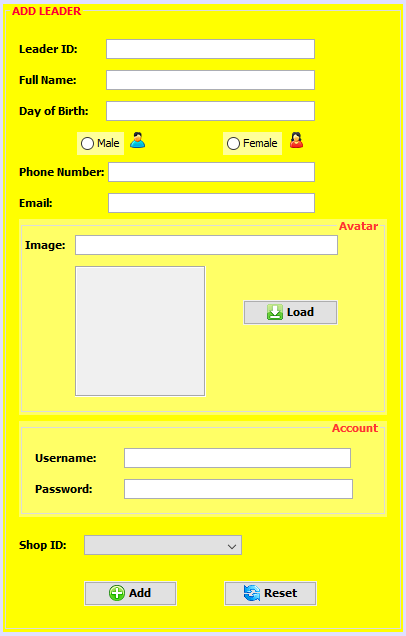
# **I.GUI Design.**

## I.1. Login



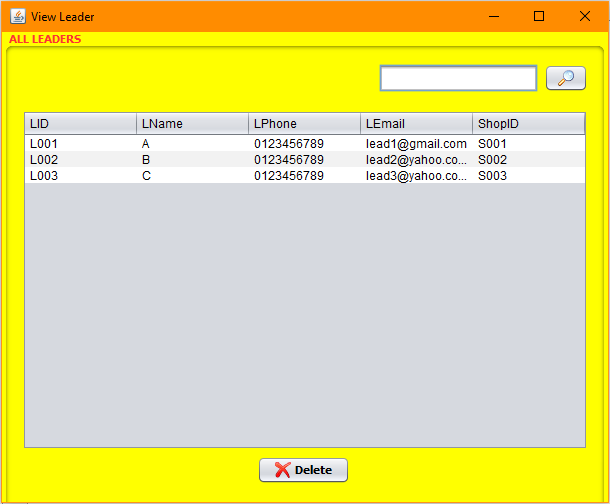
|  |  |
| --- | --- |
| Purpose | Get and check account information for connecting to database |
| Connect From |  |
| Connect to |  |
| Validation | * All fields * Not blank |
| Initial values |  |
| Events | When check “Admin” – Login with Admin permission  When Click button “Login” – If succesfull, the menu will be displayed |

## I.2 Add Leader

****

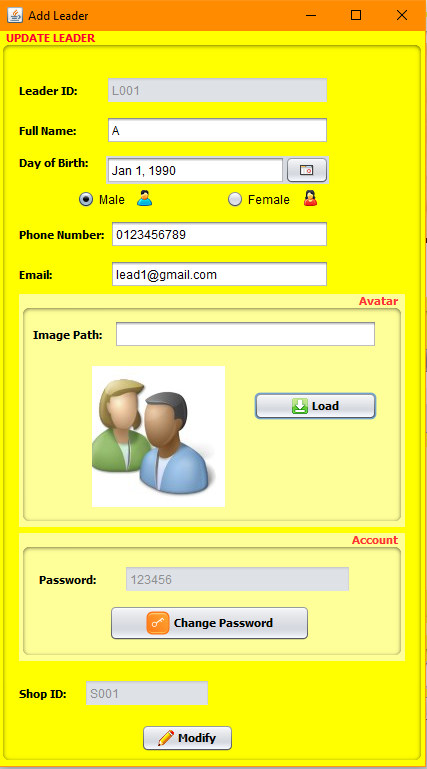
|  |  |
| --- | --- |
| Purpose | Add information of Leaders into database |
| Connect From |  |
| Connect to |  |
| Validation | * **Leader ID** * Not blank * Must be typed with format “LXXX” * Leader ID is not already existed * **Full Name** * Not blank * Must has more than 4 characters * Must uppercase first letter * Al least one white space per word * **Day of Birth** * Not blank * Date format “yyyy-mm-dd” * Between 18 – 30 years old * Not including white space * **Phone:** * Not blank * Between 10 – 15 digits * Phone format “0XXXXXXXXX” * Not including white space * **Email** * Not blank * Email format “xxxx@xxxx.com” * Not including white space * **Username** * Not blank * Must have more than 4 characters * Not including white space * Username is not already existed * **Password** * Not blank * Not including white space * Must have more than 4 characters * Click button “Add” , all information will be checked validation * All fields are set disabled for the first launch |
| Initial values | * Male gender was selected by default * The list of Shop ID being not yet registered will show |
| Events | * Click “Load”, image will be loaded for preview * Click button “Add”, all information added Leader in database * Click button “Reset”, all field come to be default mode |

## I.3 View Leader



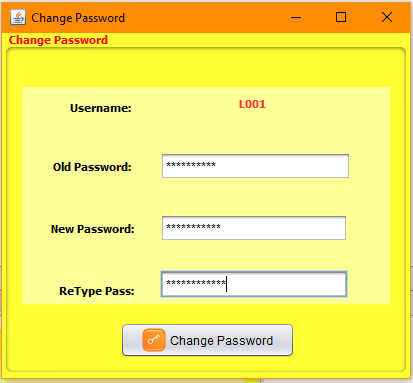
|  |  |
| --- | --- |
| Purpose | View and search information of Leader on Leader table in database |
| Connect From |  |
| Connect to | Leader\_Update.java |
| Validation | * Type Leader ID format for searching |
| Initial values |  |
| Events | * Choose one record, or else error message will be showed when clicking button “Modify” or button “Delete” * Click button “Delete”, information of Leader will be deleted in database * Click button “Modify”, it moves to Leader\_Update.java * Click “Search”, information of Leader will be searched in database |

## I.4 Update Leader



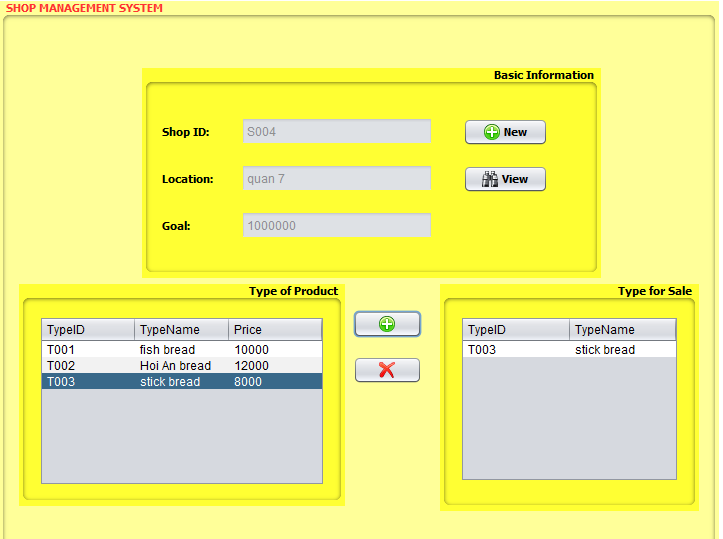
|  |  |
| --- | --- |
| Purpose | Update information of Leaders into database |
| Connect From |  |
| Connect to |  |
| Validation | * **Leader ID** * disabled * **Full Name** * Not blank * Must has more than 4 characters * Must uppercase first letter * Al least one white space per word * **Day of Birth** * Not blank * Date format “yyyy-mm-dd” * Between 18 – 30 years old * Not including white space * **Phone:** * Not blank * Between 10 – 15 digits * Phone format “0XXXXXXXXX” * Not including white space * **Email** * Not blank * Email format “xxxx@xxxx.com” * Not including white space * **Username** * disabled * **Password** * Not blank * Not including white space * Must have more than 4 characters * **Shop ID** * disabled * Click button “Add” , all information will be checked validation |
| Initial values | * ID of Leader was chosen from Leader\_View * Username of Leader was chosen from Leader\_View * Shop ID of Leader was chosen from Leade\_View |
| Events | * Click “Load”, image will be loaded for preview * Click button “Modify”, all information will be updated Leader in database |

## I.5 Change Password

****

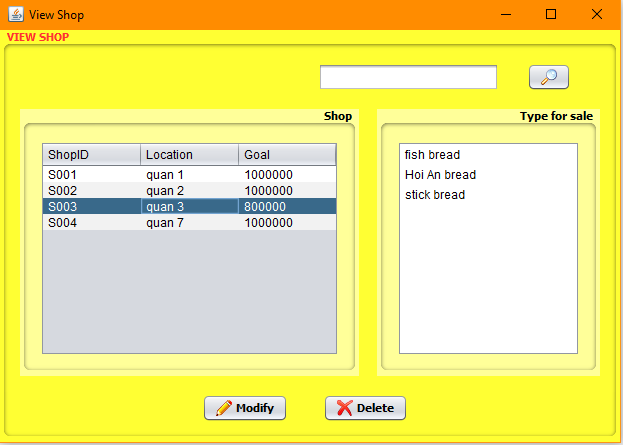
|  |  |
| --- | --- |
| Purpose | Add information of Shop into database |
| Connect From |  |
| Connect to |  |
| Validation | * **Old Password** * Not blank * Must be the same with the reference in database * **New Password** * Not blank * Not including white space * Al least 4 characters * **Retype Password** * Not blank * The same with the new one |
| Initial values | * Username corresponding with each account |
| Events | * Click “Change Password”, the old wil be replaced with the new one |

## I.6 Add Shop

****

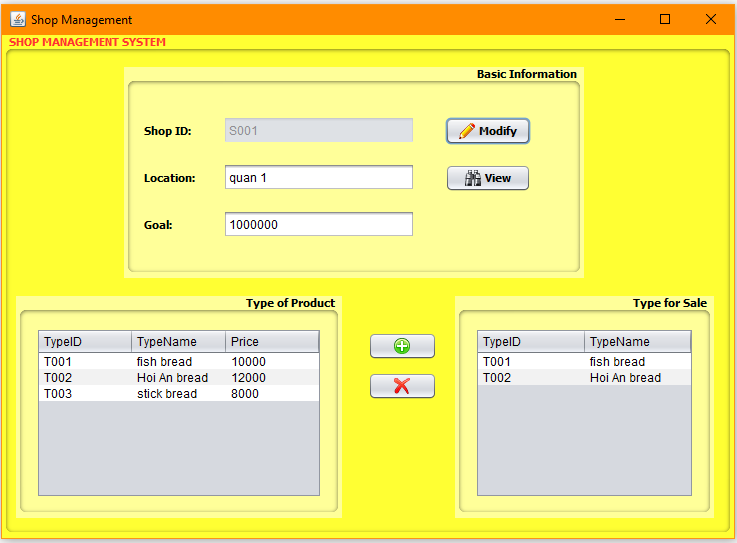
|  |  |
| --- | --- |
| Purpose | Add information of Shop into database |
| Connect From |  |
| Connect to |  |
| Validation | * **Shop ID** * Not blank * Shop ID format: SXXX * Shop ID is not already existed * **Location** * Not blank * Must has more than 4 characters * Al least one white space per word * **Goal** * Not blank * Digit format * At least 500,000VND * **Type for Sale** * Choose at least one from Type of Product * Click button “New” , button label wil change into “Save” * Click button “Save” , all information will be checked validation * All fields are set disabled for the first launch |
| Initial values | * All type of product will be showed |
| Events | * Click “Save”, information of Shop will be inserted into database * Click “View” leads app to Shop View window * Choose a type from product table, then click “+” for adding type for sale, that type will move from List to Sale * Choose a type from Sale, then click “-” for removing type for sale, that type will move from Sale to List |

## I.7 View Shop

****

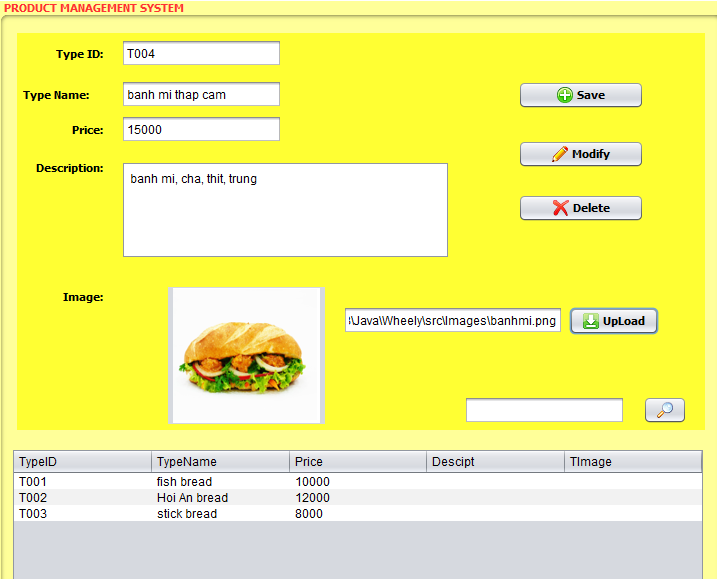
|  |  |
| --- | --- |
| Purpose | View and search information of Shop in database |
| Connect From |  |
| Connect to | Shop\_Update.java |
| Validation | * Type Shop ID format for searching |
| Initial values | * All shop information will be showed in panel Shop * Choose any one record, the product types for sale corresponding with shop will show |
| Events | * Choose one record, or else error message will be showed when clicking button “Modify” or button “Delete” * Click button “Delete”, information of Shop will be deleted in database * Click button “Modify”, it moves to Shop\_Update.java * Click “Search”, information of Shop will be searched in database |

## I.8 Update Shop

****

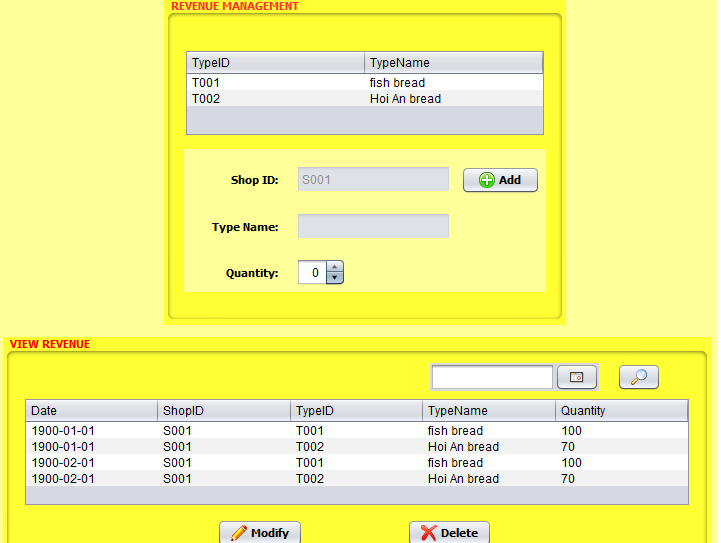
|  |  |
| --- | --- |
| Purpose | Update information of Shop into database |
| Connect From |  |
| Connect to |  |
| Validation | * **Shop ID** * Disabled * **Location** * Not blank * Must has more than 4 characters * Al least one white space per word * **Goal** * Not blank * Digit format * At least 500,000VND * **Type for Sale** * Choose at least one from Type of Product * Click button “Modify” , button label wil change into “Save” * Click button “Save” , all information will be checked validation |
| Initial values | * All type of product will be showed |
| Events | * Click “Save”, information of Shop will be updated into database * Click “View” leads app to Shop View window * Choose a type from product table, then click “+” for adding type for sale, that type will move from List to Sale * Choose a type from Sale, then click “-” for removing type for sale, that type will move from Sale to List |

## I.9 Type Management

****

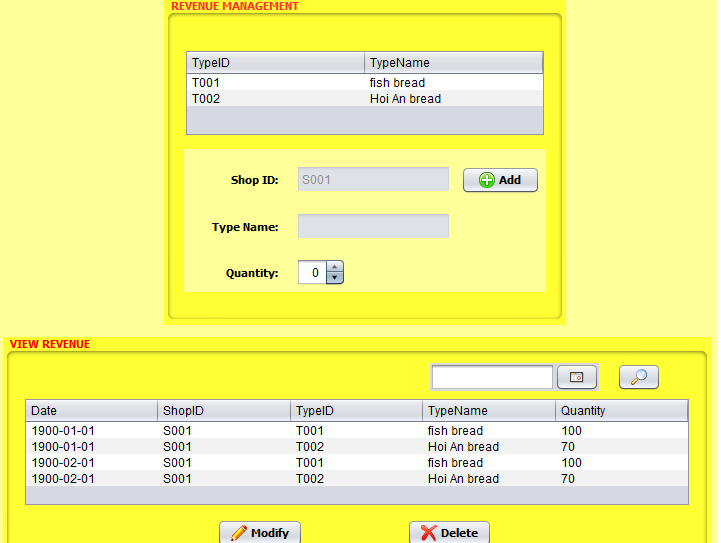
|  |  |
| --- | --- |
| Purpose | Add information of Product Type into database |
| Connect From |  |
| Connect to |  |
| Validation | * **Type ID** * Format : TXXX * Not blank * **Type Name** * Not blank * At least 4 characters * At least one white space * **Price** * Not blank * Between 10,000 VND – 20,000 VND * Digit format * **Description** * At least one white space per word * Click “New”, button label changes into “Save” * Click button “Save” , all information will be checked validation * All fields are set disabled for the first launch * Type ID is disabled when click “Modify” |
| Initial values | All field are initialized with values from a record chosen |
| Events | * Choose any record from table or an error message will show when clicking “Modify” or “Delete” |

## I.10 Add Revenue

****

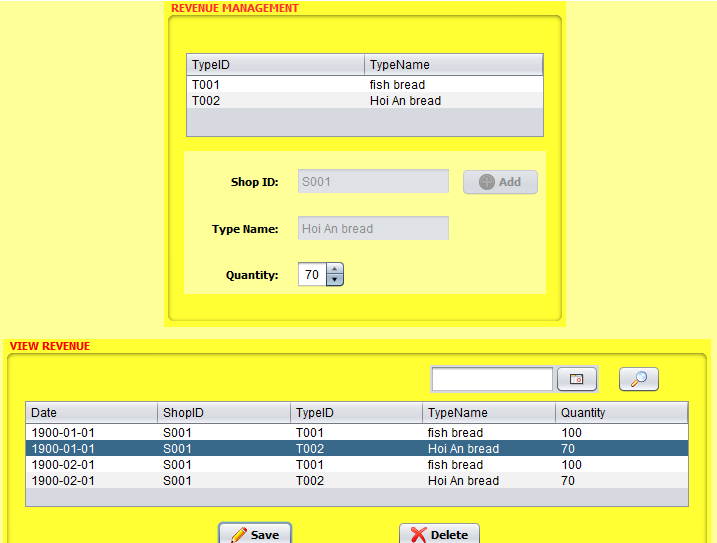
|  |  |
| --- | --- |
| Purpose | Add revenue of each Product type into database (for each day) |
| Connect From |  |
| Connect to |  |
| Validation | * **Shop ID** * Disabled * **Type Name** * Disabled * **Quantity** * Not blank * Digit format * Click “Add”, button label changes into “Save” * Click button “Save” , all information will be checked validation * Allow insert data once a day |
| Initial values | Type for Sale corresponding with Shop ID will load into table  Shop ID was initial corresponding with Lead permission login  Type Name was initial with values from a record chosen |
| Events | * Click “Save”, revenue will insert into database by each type for one shop and current date, the type chosen in table will disapear * Click “View” leads app to View Revenue window |

## I.11 View Revenue

****

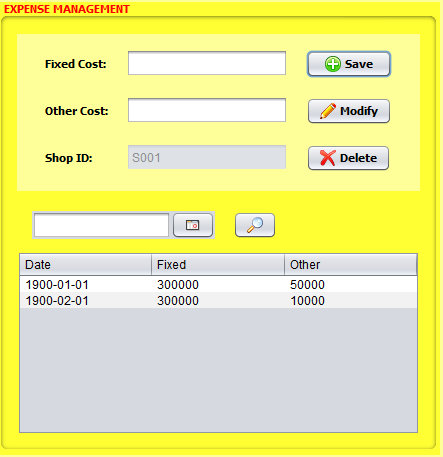
|  |  |
| --- | --- |
| Purpose | View and search information of Revenue in database |
| Connect From |  |
| Connect to | Revenue\_Update.java |
| Validation | * Type date format for searching * Only dates last longer 10 years and current date allowed for deleting |
| Initial values | * All revenue information will be showed in panel Shop |
| Events | * Click button “Delete”, information of revenue of will be deleted in database * Click button “Modify”, it moves to Revenue\_Update.java * Click “Search”, information of Revenue will be searched in database |

## I.12 Update Revenue

****

|  |  |
| --- | --- |
| Purpose | Update revenue of each Product type into database (for current date) |
| Connect From |  |
| Connect to |  |
| Validation | * **Shop ID** * Disabled * **Type Name** * Disabled * **Quantity** * Not blank * Digit format * Click “Modify”, button label changes into “Save” * Click button “Save” , all information will be checked validation |
| Initial values | Type for Sale corresponding with current date revenue will load into table  Shop ID was initial corresponding with Lead permission login  Type Name and Quantity was initial with values from a record chosen |
| Events | * Choose any one record or an error message will show when clicking “Save”, revenue will update into database by each type for one shop and current date |

## I.13 Expense Management

****

|  |  |
| --- | --- |
| Purpose | Add information of Expense into database |
| Connect From |  |
| Connect to |  |
| Validation | * **Fixed Cost** * Digit formart * Not blank * At least 300,000 VND * **Other Cost** * Not blank * Digit format * **Shop ID** * Disabled * Click “New”, button label changes into “Save” * Click button “Save” , all information will be checked validation, allow insert data only once a day * All fields are set disabled for the first launch * Type Date format for searching * Only allowing delete any record which lasts than 10 years and current date |
| Initial values | All field are initialized with values from a record chosen  Shop ID was initial corresponding with Lead permission login |
| Events | * Choose any record from table or an error message will show when clicking “Modify” or “Delete” |

## I.14 Statement

****

|  |  |
| --- | --- |
| Purpose | Display information of Expense and Revenue statement from database |
| Connect From |  |
| Connect to |  |
| Validation | * **Date** * Date formart “yyyy-mm-dd” * Not blank * **Shop ID** * Not blank |
| Initial values |  |
| Events | * Click “Export” will display information of Statement of Revenue and Expense per date and per shop * This also compares Revenue and Goal of each shop and display the comment. |

# **II. Testing Document**

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Features Tested** | **Remarks** |
| 1. | Database | OK |
| 2. | GUI | OK |
| 3. | Load Data in each file | OK |
| 4. | Insert function | OK |
| 5. | Modify function | OK |
| 6. | Delete function | OK |
| 7. | Validation | OK |

# **III. Final Checklist**

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Aspect tested** | **Suggestion/Remarks** |
| 1. | Have all the modules been properly integrated and are they completely functional? | OK |
| 2. | Does each unit meet its objective and purpose?  Are all the validations happening as specified in Process Design? | OK |
| 3. | Have all Design and Coding standards been followed and implemented? | OK |
| 4. | Is the GUI design consistent all over? | OK |
| 5. | Are the codes working as per the specification? | OK |
| 6. | Does the application’s functionality resolve the client problem, and satisfy his needs completely? | OK |
| 7. | Have the hardware and software been correctly chosen? | OK |
| 8. | Additional features and utilities that give value addition to the entire project | OK |

# **Task sheet 3**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **Member** | **Contents** | **Form Name** | **Activity Plan** | **Date of Preparation of Activity Plan** | | |
| **Planed Start Date** | **Actual Start Date** | **Actual Days** | **Status** |
| 1 | Nguyen Kim Minh Hang | Statement | Statement.java | 15/2/2017 | 15/2/2017 | 10 | OK |
| 2 | View Revenue | Revenue\_View.java | 10 | OK |
| 3 | Delete Revenue | 10 | OK |
| 4 | Add Revenue | Revenue.java | 10 | OK |
| 5 | Update Revenue | Revenue\_Update.java | 10 | OK |
| 6 | View Expense | Expense.java | 10 | OK |
| 7 | Delete Expense | 10 | OK |
| 8 | Add Expense | 10 | OK |
| 9 | Update Expense | 10 | OK |
|  | | | | | | | |
| 1 | Nguyen Thanh Hau | View Leader | Leader\_View.java | 15/2/2017 | 15/2/2017 | 10 | OK |
| 2 | Delete Leader | 10 | OK |
| 3 | Add Leader | Leader.java | 10 | OK |
| 4 | Update Leader | Leader\_Update.java | 10 | OK |
|  | | | | | | | |
| 1 | Dang Van Phung | View Shop | Shop\_View.java | 15/2/2017 | 15/2/2017 | 10 | OK |
| 2 | Delete Shop | 10 | OK |
| 3 | Add Shop | Shop.java | 20 | OK |
| 4 | Update Shop | Shop\_Update.java | 20 | OK |
| 5 | View Type | TMS.java | 15/2/2017 | 15/2/2017 | 10 | OK |
| 6 | Delete Type | 10 | OK |
| 7 | Add Type | 20 | OK |
| 8 | Update Type | 20 | OK |