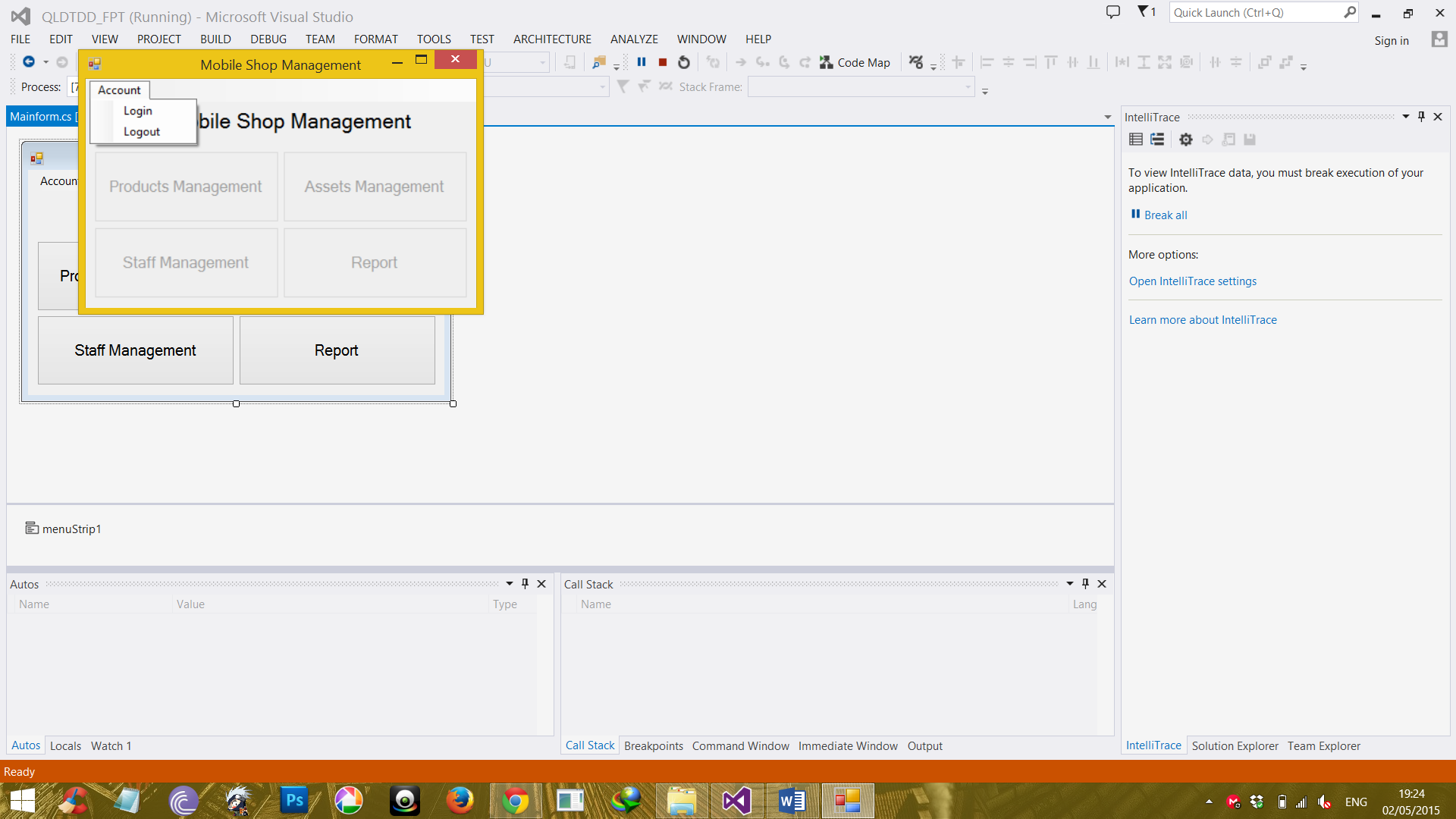
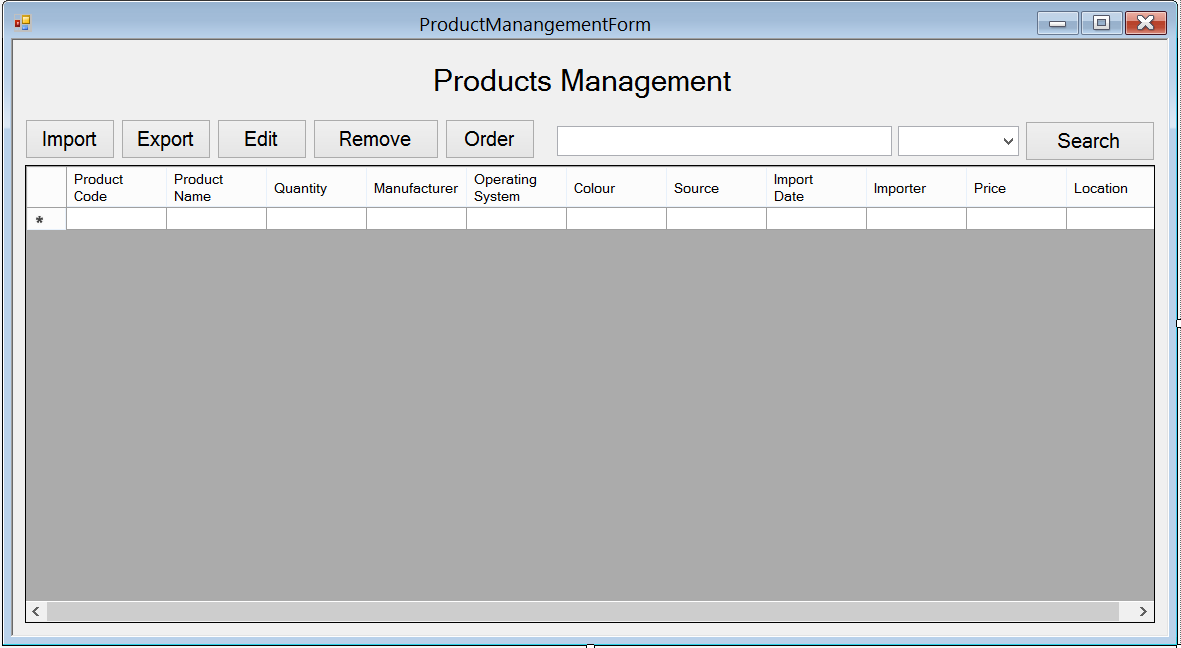
# Functional Description

## User interface:



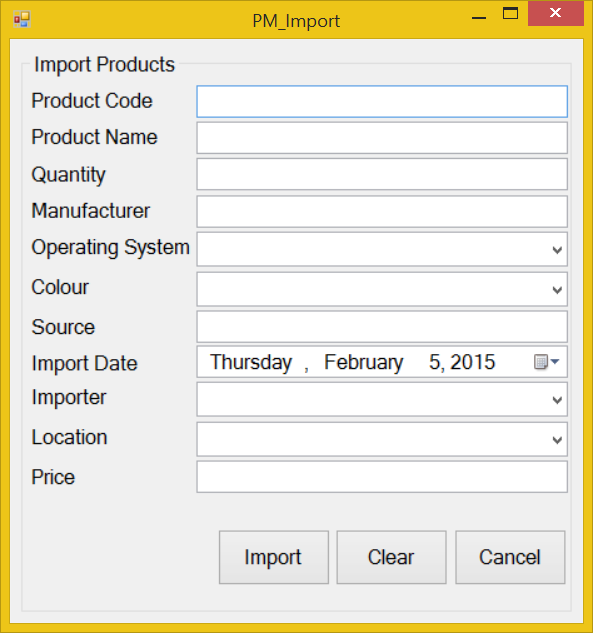
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Mobile Shop Management – User interface | | | | |
| **Description** | Display a screen where user can control the product. | | | |
| **Screen Access** | Users run program by click on file **ProductManagement.exe** | | | |
| **Screen Content** | | | | | |
| **Item** | **Type** | **Data** | **Description** | |
| Mobile Shop Management | Label |  | Name of the software | |
| Account | Menu strip item |  | Name of menu strip | |
| Log in | Menu strip item |  | Open a dialog where user can log into program | |
| Log out | Menu strip item |  | Log out the program. | |
| Products Management | Button |  | If user click on this button, the “Products Management” dialog will appear. | |
| Assets Management | Button |  | If user click on this button, the “Assets Management” dialog will appear. | |
| Staff Management | Button |  | If user click on this button, the “Staff Management” dialog will appear. | |
| Report | Button |  | If user click on this button, the “Report” dialog will appear. | |
| **Screen Actions** | | | | | |
| **Action Name** | **Description** | | **Success** | **Failure** |
| Log in | Everyone have an account and click on it to enter the system. | | Username of current user will display at the bottom of screen and all buttons will be enabled. | Displays message “Username or password is incorrect.” |
| Log out | Use to exit the system. | | Username of current user at the bottom of screen will be disappeared and all button will be disabled. | Nothing. |
| Products Management | Search data which existed in database | | “Products Management” dialog opened | Nothing. |
| Assets Management | Add more data. | | “Assets Management” dialog opened | Nothing. |
| Staff Management | Remove some of data. | | “Staff Management” dialog opened | Nothing. |
| Report | Update some exist fields of data. | | “Report” dialog opened | Nothing. |

## Products Management:



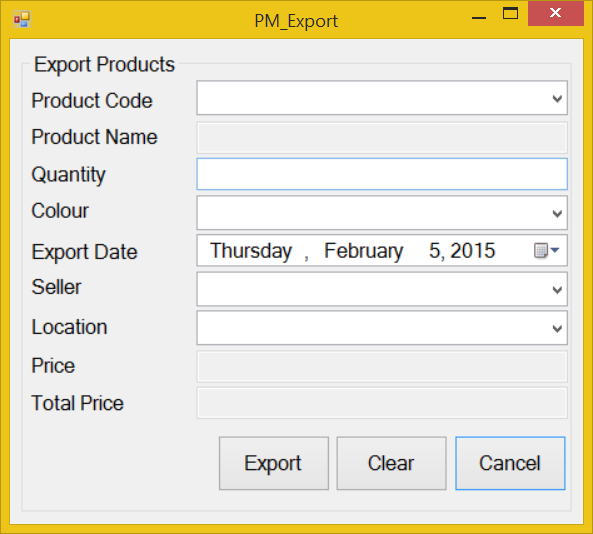
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Products Management | | | | |
| **Description** | |  | | | |
| **Screen Access** | | Users run program then click on **Products Management** button | | | |
| **Screen Content** | | | | | |
| **Item** | | **Type** | **Data** | **Description** | |
| Data grid view | | Data grid view | Lookup all fields from PRODUCT table. | * Display all fields about the product when the form loaded: Product code, product name, quantity, manufacturer, OS, colour, source, import date, importer, price, location. * This table is read-only, user cannot edit it. | |
| Import | | Button |  | User click on it to search | |
| Export | | Button |  |  | |
| Edit | | Button |  |  | |
| Remove | | Button |  |  | |
| Order | | Button |  |  | |
| Search | | Button |  |  | |
| Textbox | | Text field – String (50) |  |  | |
| Combo box | | Drop down list |  |  | |
| **Screen Actions** | | | | | |
| **Action Name** | | **Description** | | **Success** | **Failure** |
| Import | |  | |  |  |
| Export | |  | |  |  |
| Edit | |  | |  |  |
| Remove | |  | |  |  |
| Order | |  | |  |  |
| Search | | Find a product in the table below. | | Return the result of searching process | Message “Not found”. |

### Products Management – Import



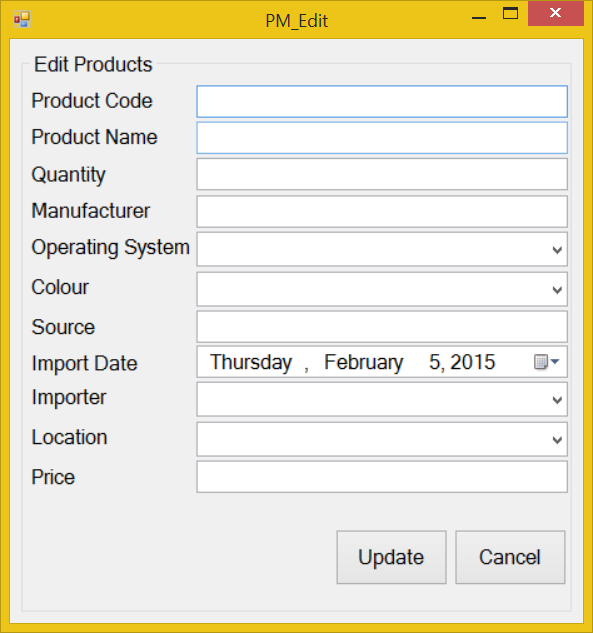
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Product Management - Import | | | | |
| **Description** |  | | | |
| **Screen Access** | Users run program by click on file **Product Management -> Import** | | | |
| **Screen Content** | | | | | |
| **Item** | **Type** | **Data** | **Description** | |
| Import Products | String (50) |  |  | |
| Product Code | Text field – String (50) |  |  | |
| Product Name | Text field – String (50) |  |  | |
| Quantity | Text field – String (50) |  |  | |
| Manufacturer | Text field – String (50) |  |  | |
| Operating System | Dropdown list – String (50) |  |  | |
| Colour | Dropdown list – String (50) |  |  | |
| Source | Text field – String (50) |  |  | |
| Import Date | Date time picker |  |  | |
| Importer | Dropdown list – String (50) |  |  | |
| Location | Dropdown list – String (50) |  |  | |
| Price | Text field – String (50) |  |  | |
| Import | Button |  |  | |
| Clear | Button |  |  | |
| Cancel | Button |  |  | |
| **Screen Actions** | | | | | |
| **Action Name** | **Description** | | **Success** | **Failure** |
| Import |  | |  |  |
| Clear |  | |  |  |
| Cancel |  | |  |  |

### Products Management – Export



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Product Management - Export | | | | |
| **Description** |  | | | |
| **Screen Access** | Users run program by click on file **Product Management -> Export** | | | |
| **Screen Content** | | | | | |
| **Item** | **Type** | **Data** | **Description** | |
| Export Products | String (50) |  |  | |
| Product Code | Text field – String (50) |  |  | |
| Product Name | Text field – String (50) |  |  | |
| Quantity | Text field – String (50) |  |  | |
| Colour | Dropdown list – String (50) |  |  | |
| Export Date | Date time picker |  |  | |
| Seller | Dropdown list – String (50) |  |  | |
| Location | Dropdown list – String (50) |  |  | |
| Price | Text field – String (50) |  |  | |
| Total Price | Text field – String (50) |  |  | |
| Export | Button |  |  | |
| Clear | Button |  |  | |
| Cancel | Button |  |  | |
| **Screen Actions** | | | | | |
| **Action Name** | **Description** | | **Success** | **Failure** |
| Export |  | |  |  |
| Clear |  | |  |  |
| Cancel |  | |  |  |

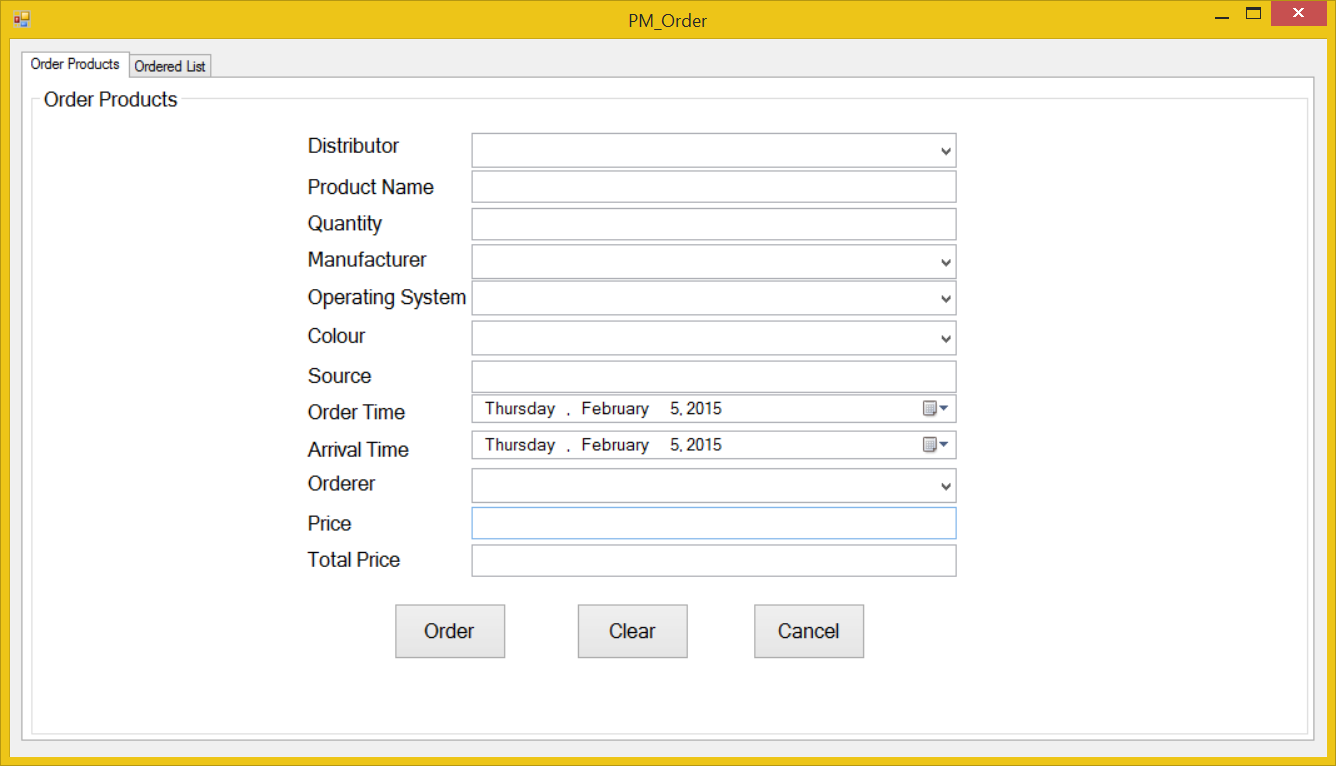
### Products Management – Edit



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Product Management - Edit | | | | |
| **Description** |  | | | |
| **Screen Access** | Users run program by click on file **Product Management -> Edit** | | | |
| **Screen Content** | | | | | |
| **Item** | **Type** | **Data** | **Description** | |
| Edit Products | String (50) |  |  | |
| Product Code | Text field – String (50) |  |  | |
| Product Name | Text field – String (50) |  |  | |
| Quantity | Text field – String (50) |  |  | |
| Manufacturer | Text field – String (50) |  |  | |
| Operating System | Dropdown list – String (50) |  |  | |
| Colour | Dropdown list – String (50) |  |  | |
| Source | Text field – String (50) |  |  | |
| Import Date | Date time picker |  |  | |
| Importer | Dropdown list – String (50) |  |  | |
| Location | Dropdown list – String (50) |  |  | |
| Price | Text field – String (50) |  |  | |
| Update | Button |  |  | |
| Cancel | Button |  |  | |
| **Screen Actions** | | | | | |
| **Action Name** | **Description** | | **Success** | **Failure** |
| Update |  | |  |  |
| Cancel |  | |  |  |

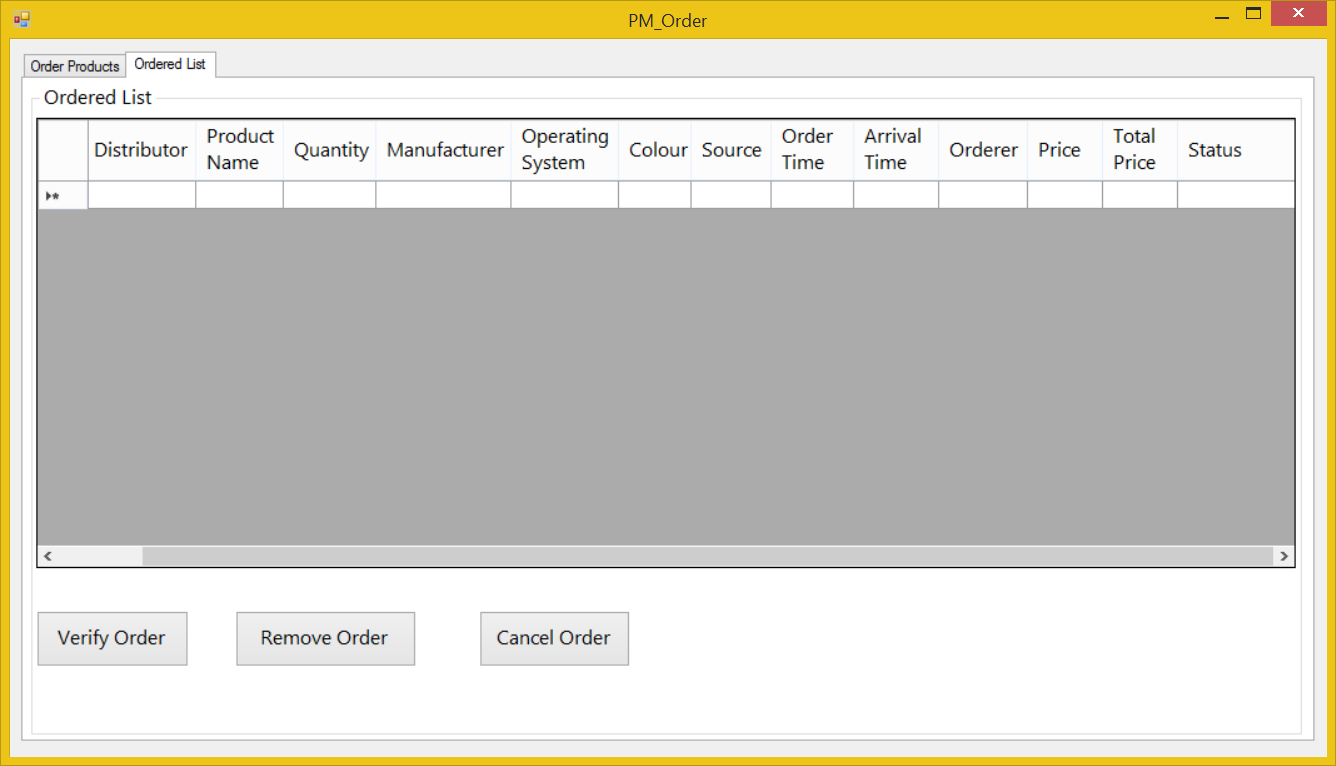
### Products Management – Order

#### Order – Order Products



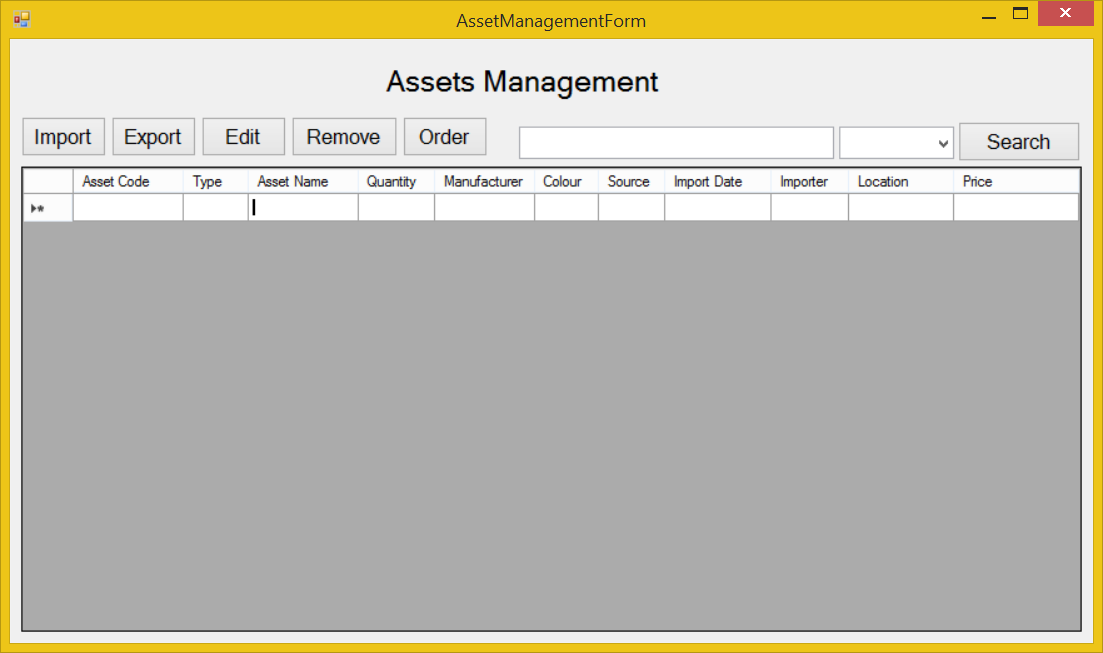
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Product Management – Order | | | | |
| **Description** |  | | | |
| **Screen Access** | Users run program by click on file **Product Management -> Order** | | | |
| **Screen Content** | | | | | |
| **Item** | **Type** | **Data** | **Description** | |
| Order Products | Tab |  |  | |
| Order Products | String (50) |  |  | |
| Distributor | Dropdown list – String (50) |  |  | |
| Product Name | Text field – String (50) |  |  | |
| Quantity | Text field – String (50) |  |  | |
| Manufacturer | Dropdown list – String (50) |  |  | |
| Operating System | Dropdown list – String (50) |  |  | |
| Colour | Dropdown list – String (50) |  |  | |
| Source | Text field – String (50) |  |  | |
| Order Time | Date time picker |  |  | |
| Arrival Time | Date time picker |  |  | |
| Orderer | Dropdown list – String (50) |  |  | |
| Price | Text field – String (50) |  |  | |
| Total Price | Text field – String (50) |  |  | |
| Order | Button |  |  | |
| Clear | Button |  |  | |
| Cancel | Button |  |  | |
| **Screen Actions** | | | | | |
| **Action Name** | **Description** | | **Success** | **Failure** |
| Order |  | |  |  |
| Clear |  | |  |  |
| Cancel |  | |  |  |

#### Order – Ordered List



|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Products Management | | | | |
| **Description** | |  | | | |
| **Screen Access** | | Users run program then click on **Products Management** button | | | |
| **Screen Content** | | | | | |
| **Item** | | **Type** | **Data** | **Description** | |
| Ordered List | | Tab |  |  | |
| Ordered List | | String (50) |  |  | |
| Data grid view | | Data grid view |  | * Display all fields about the ordered list when the form loaded: Distributor, product name, quantity, manufacturer, OS, colour, source, order time, arrival time, ordered, price, total price, status. * This table is read-only, user cannot edit it. | |
| Verify Order | | Button |  |  | |
| Remove Order | | Button |  |  | |
| Cancel Order | | Button |  |  | |
| **Screen Actions** | | | | | |
| **Action Name** | | **Description** | | **Success** | **Failure** |
| Verify Order | |  | |  |  |
| Remove Order | |  | |  |  |
| Cancel Order | |  | |  |  |

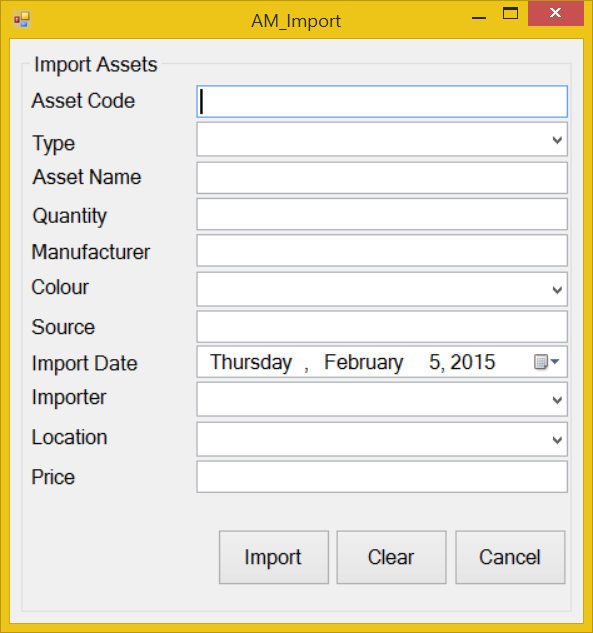
## Assets Management:



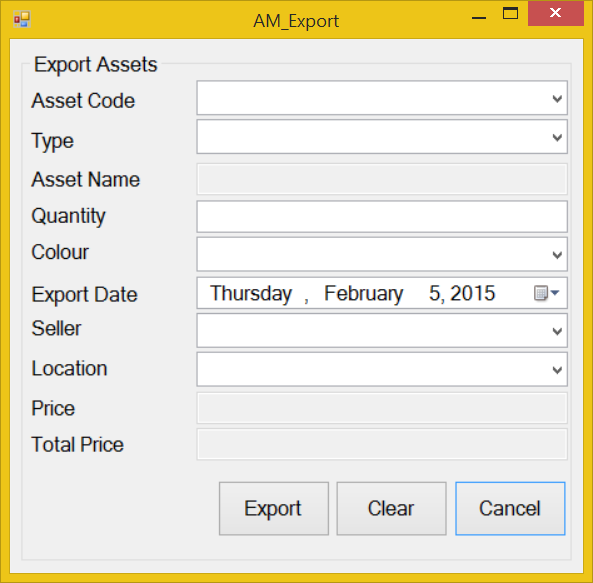
|  |  |
| --- | --- |
| Use Case Name | Add products |
| Use Case ID | ABC001 |
| High Level Requirement Ref | The general information about imported products must be prepared. The manager and the others members who have authority can view the product list. Besides that, they can make the order to import more products. |
| Actor | Shop’s Master, Warehouse Manager, Treasurer, Accountant |
| Description | This use case is used to add more products. |
| Pre-condition | The product is not available in the database. |
| Post-processing | The database has new products. |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Assets Management | | | | |
| **Description** | |  | | | |
| **Screen Access** | | Users run program then click on **Assets Management** button | | | |
| **Screen Content** | | | | | |
| **Item** | | **Type** | **Data** | **Description** | |
| Data grid view | | Data grid view | Lookup all fields from ASSET table. | * Display all fields about the asset when the form loaded: asset code, type, asset name, quantity, manufacturer, colour, source, import date, importer, location, price. * This table is read-only, user cannot edit it. | |
| Import | | Button |  | User click on it to search | |
| Export | | Button |  |  | |
| Edit | | Button |  |  | |
| Remove | | Button |  |  | |
| Order | | Button |  |  | |
| Search | | Button |  |  | |
| Textbox | | Text field – String (50) |  |  | |
| Combo box | | Drop down list |  |  | |
| **Screen Actions** | | | | | |
| **Action Name** | | **Description** | | **Success** | **Failure** |
| Import | |  | |  |  |
| Export | |  | |  |  |
| Edit | |  | |  |  |
| Remove | |  | |  |  |
| Order | |  | |  |  |
| Search | | Find a product in the table below. | | Return the result of searching process | Message “Not found”. |

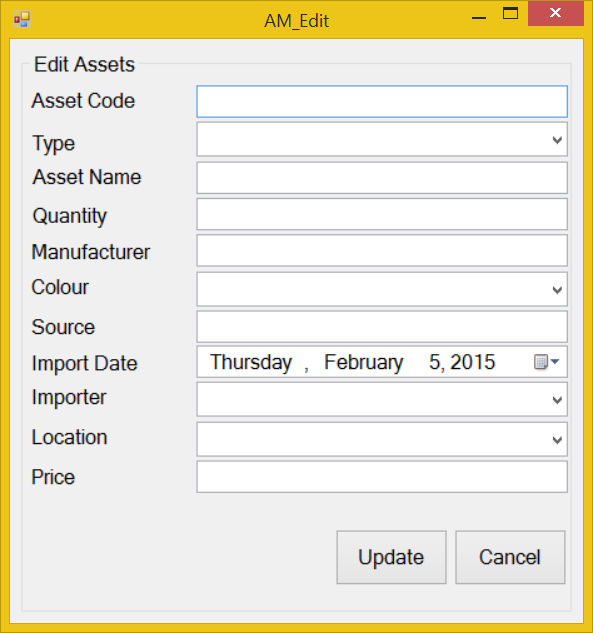
### Assets Management – Import



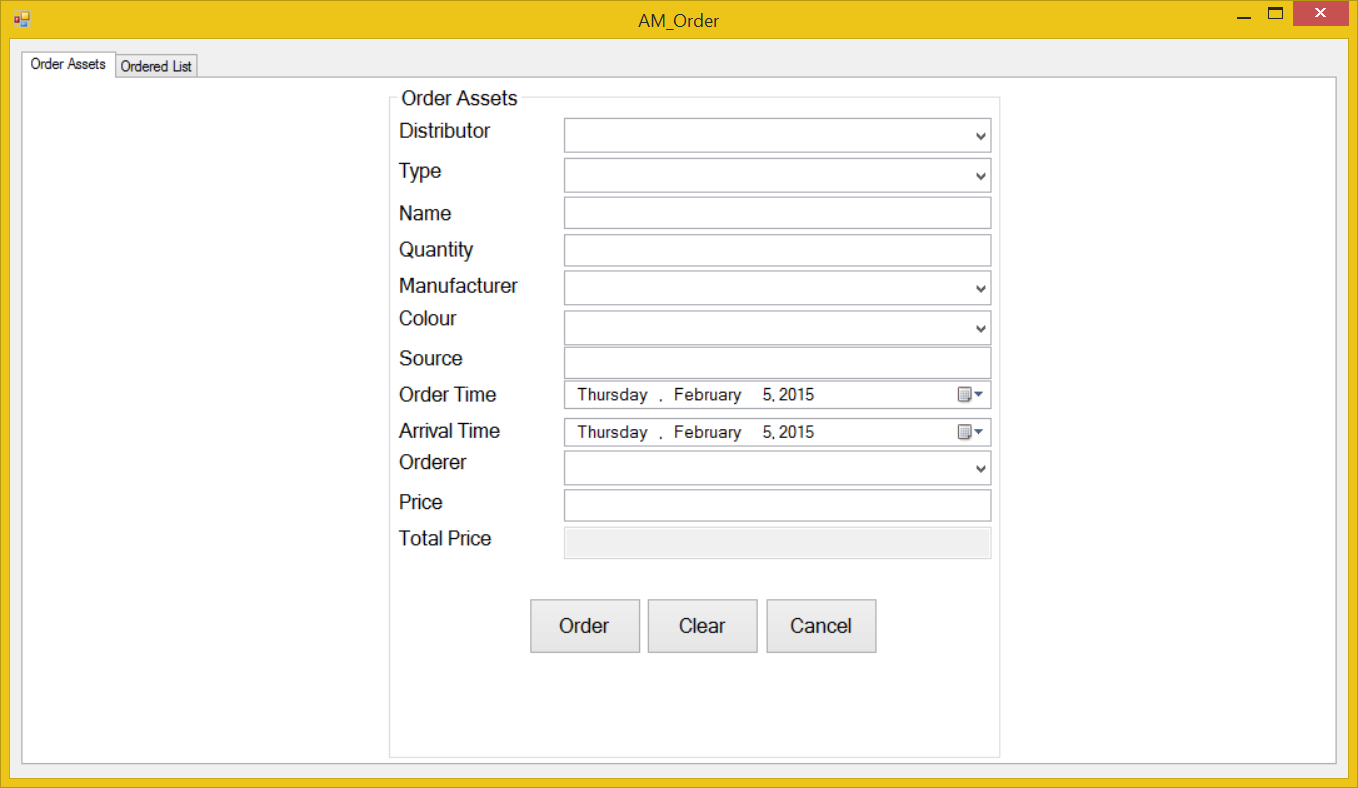
### Assets Management – Export



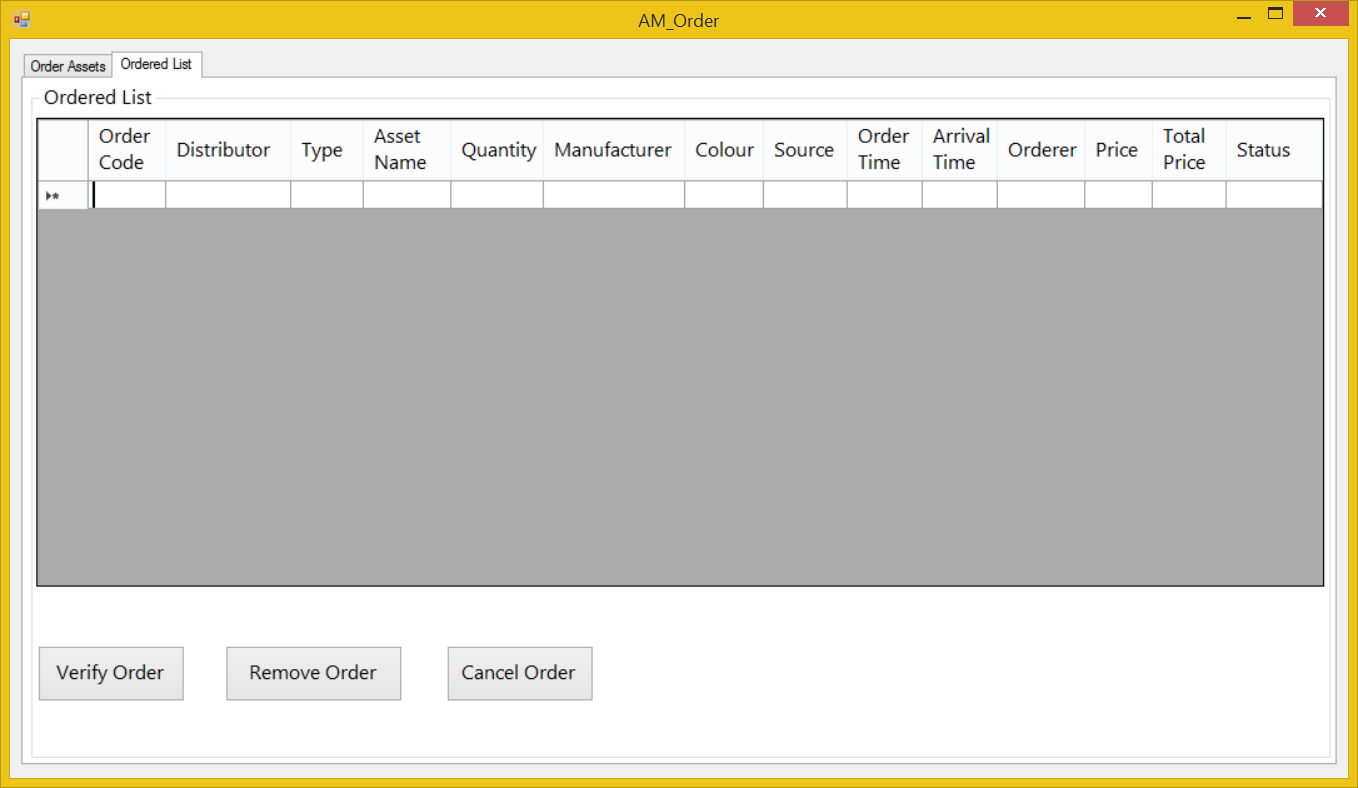
### Assets Management – Edit



### Assets Management – Order



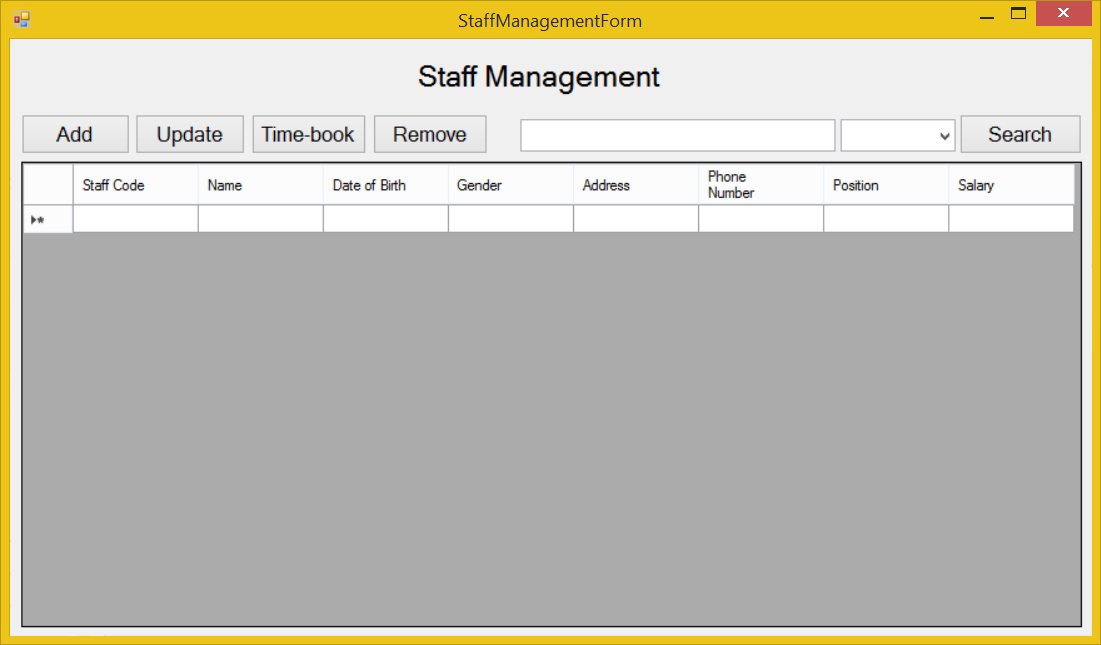
#### Order – Order Products



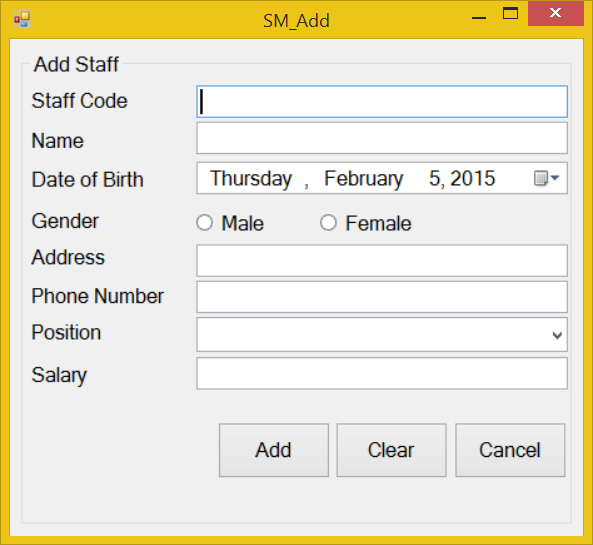
#### Order – Ordered List

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Screen** | Add products – Filter | | | | |
| **Description** | | Display query screen to filter displayed results. The system displays all products information from the DB, on the screen. Then users can choose to display any product information, by choosing value in dropdown lists of “Filter by”. | | | |
| **Screen Access** | | Users run program and click on the button **Add Products** | | | |
| **Screen Content** | | | | | |
| **Item** | | **Type** | **Data** | **Description** | |
| Filter by | | Dropdown list - Alpha numeric (5) | Default: All.  Lookup from PRODUCT table by value inputted in the dropdown list. | User can choose the filter item from dropdown list to filter the displayed result, such as product code, name, OS, etc. | |
| Filter | | Button |  | Execute the filter | |
| Add New | | Button |  | User click on it to add a new product to the database. | |
| **Screen Actions** | | | | | |
| **Action Name** | | **Description** | | **Success** | **Failure** |
| Filter | | List of all products will be ordered by PRODUCT.NAME.  When users choose any value in the above dropdown list and click Filter button then the system returns data of that product. | | Display general data of inputted Product code (data is selected from table PRODUCTS). | Displays message “No data found.” in the Message Area. |
| Add new | | Add new product to the database | | Open Add Product dialog | Nothing. |

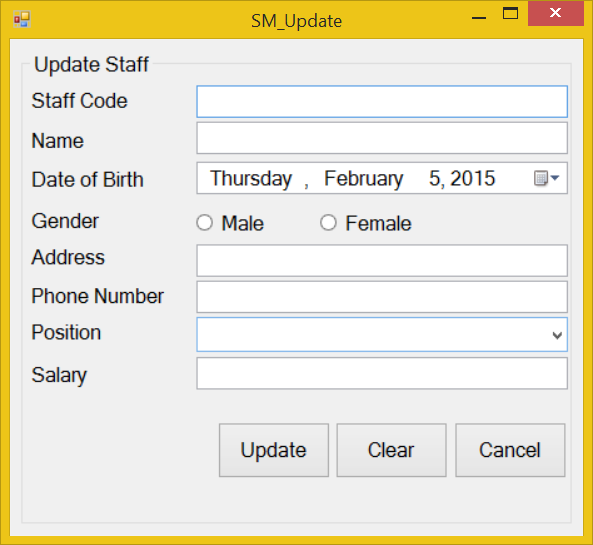
## Staff Management



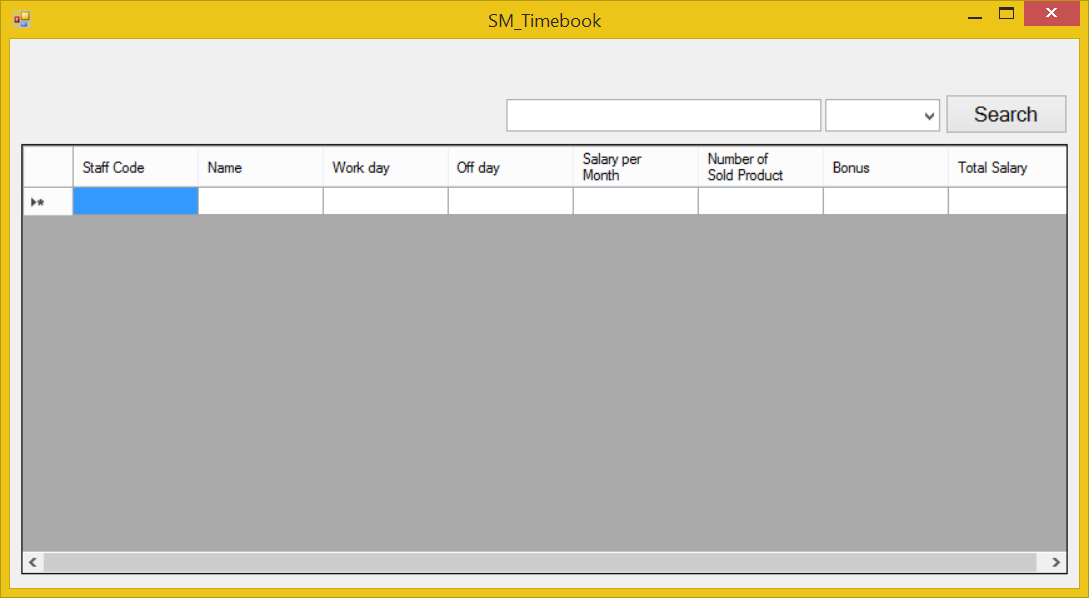
### Staff Management – Add



### Staff Management – Update



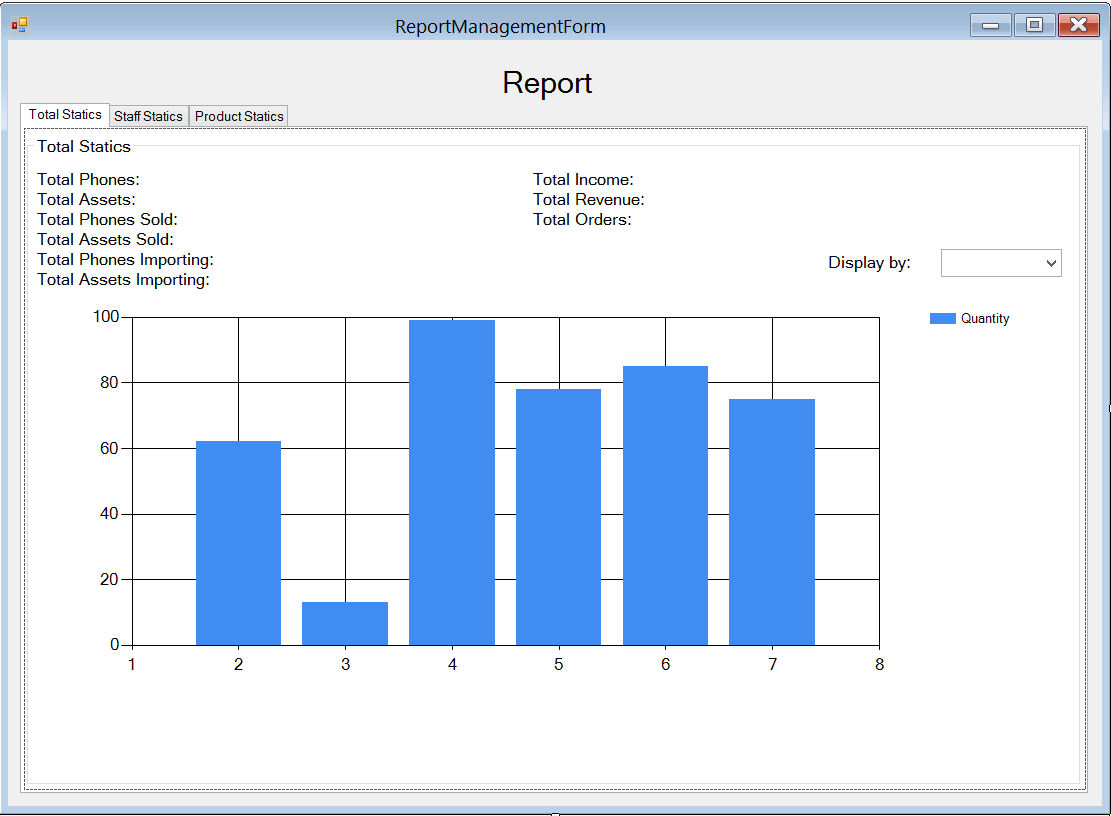
### Staff Management – Time-book



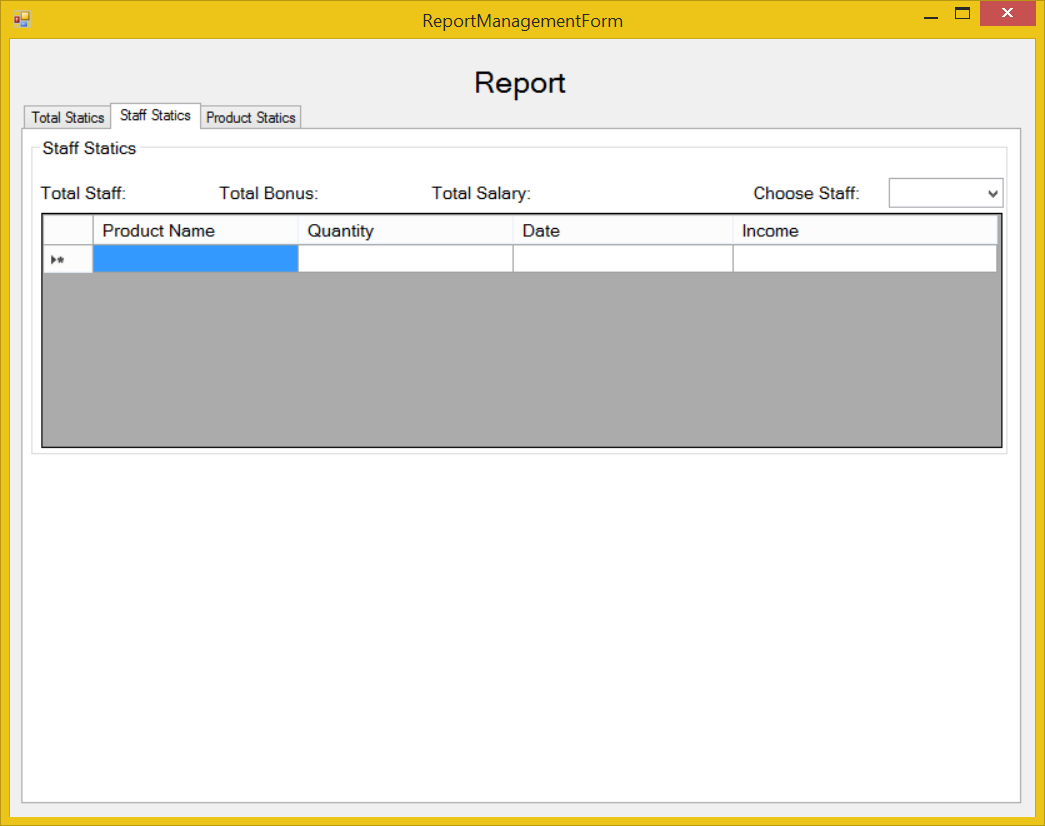
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Screen** | Remove product – Filter & Remove | | | | | |
| **Description** | | Display all products information base on the input field in the Filter | | | | |
| **Screen Access** | | Users run the program and click on **Remove products** | | | | |
| **Screen Content** | | | | | | |
| **Item** | | **Type** | **Data** | | **Description** | |
| Filter by | | Dropdown list - Alpha numeric (5) | Default: All.  Lookup from PRODUCT table by value inputted in the dropdown list. | | User can choose the filter item from dropdown list to filter the displayed result, such as product code, name, OS, etc. | |
| Filter | | Button |  | | Execute the filter | |
| Remove | | Button |  | | User click on it to remove a product chosen from the table below. | |
| **Screen Actions** | | | | | | |
| **Action Name** | | **Description** | | **Success** | | **Failure** |
| Filter | | List of all products will be ordered by PRODUCT.NAME.  When users choose any value in the above dropdown list and click Filter button then the system returns data of that product. | | Display general data of inputted Product code (data is selected from table PRODUCTS). | | Displays message “No data found.” in the Message Area. |
| Remove | | * If the user logged in is Administrative or Manager Account, then Product Code are displayed as links. * The user clicks on the item in the data grid view, then click on the “Remove” button to remove it. | | “Remove” pop up is displayed and ask user to confirm the command. | | Displays message “Cannot remove the product.” |

## Report

### Report – Total Statics



### Report – Staff Statics



### Report – Product Statics

