6.0 Design

6.1 Design Strategies

For the design of the system, the team first interviewed the company regarding their preference with regards to the color scheme of their system. The company told us to base the colors on their website which were black, gray and white. The team designed a simple to understand user interface that uses clear labels, familiar icons or buttons to try to enhance the user productivity of the system. The team also tried to design the system based on the appropriate colors the company preferred to have. The team tried not to put too much dashboards in the home screen since less is more and the screen would look too complicated and confusing. The team also followed consistency when it comes to the placement of the logo and the title of each report, screen or form. The team tried to make the design as simple as possible to ensure that the users are able to use the system as effective and as efficient as possible.

6.2 System Tables/Files

6.2.1 Sales Tables

6.2.1.1 Sales Order Form Table

Field Name	Description	Type(Length)	Default Value	Accepted Values
Product Name	The name of the product	String	Enter Product name	Battery A
Quantity	How many products are present	Integer	0	0 – XXX
Unit Price	Price for each product	Float	0	0 .00– XXX.000
Discount	Discount of the product given to the customer	Percentage	0	XX%

Amount	Total unit price multiplied by the total quantity	Float values	0	0.00 – XXX.000
Total	The total amount the customer will pay	Float values	0	0.00 – XXX.000

6.2.1.2 Sales Report Table

Field Name	Description	Type(Length)	Default Value	Accepted Values
Product Name	The name of the product	String	Product Name	Battery A
Quantity	How many products are present	Integer	0	0 – XXXX
Amount	Total unit price multiplied by the total quantity	Float Values	0	0 – XXX.00000

6.2.1.3 Sales Request Form Table

Field Name	Description	Type(Length)	Default Values	Accepted Values
Product Name	Name of the product	String	Battery Name	Battery A
Quantity	How many products	Integer	0	0 - XXX

6.2.2 Inventory Tables

6.2.2.2 Purchase Request Table

Field Name	Description	Type(Length)	Default Values	Accepted Values

Product Name	Name of the product	String	Battery Name	Battery A
Quantity	How many products	Integer	0	0 - XXX

6.2.2.2 Inventory Report

Field Name	Description	Type(Length)	Default Values	Accepted Values
Product Name	Name of the product	String	Battery Name	Battery A
Start Date Quantity	Quantity of product on start date indicated	Integer	0	0 – XX
End Date Quantity	Quantity of product on end date indicated	Integer	0	0- XX

6.2.3 Procurement Tables

6.2.3.1 Purchase Order Form Table

Field Name	Description	Type(Length)	Default Values	Accepted Values
Product Name	Name of the product	String	Battery Name	Battery A
Quantity	How many products	Integer	0	0 - XXX

6.2.3.2 Procurement Report table

Field Name	Description	Type(Length)	Default Values	Accepted Values

Date Ordered	Date of product ordered	String	XX/XX/XX	XX/XX/XX
Date Received	Date of product received	String	XX/XX/XX	XX/XX/XX
Product Name	Name of the product	String	Product Name	Battery A
Quantity Received	Amount of products received	Integer	0	0 – XXX
Price Per Unit	Price per product	Float	0.00	0.00 – XXX.000
Amount	Unit price multiplied by the total quantity	Float	0.00	0.00 – XXX.000
Total	Total amount of procurement	Float	0.00	0.00 – XXX.000

6.3 Data Coding Standards

The programmer of the team followed a naming convention that follows the required field's name. An example would be for the login screen, the username field is named username. Ambiguity of the naming convention is because this can confuse the programmer in the future when the programmer edits the files for improvement. The programmers also carefully divided each field, each label, each image, each panel and each menu bar to be able to edit the programmer easier. For the tables, every name in the table is expressed in singular form and do not repeat the names of each table field to avoid confusion. For the format, the programmer established a standard size for the indentation to make them look consistent. The programmer also aligned the open and

close braces vertically as a style when the need arises. All menu bars of the system will be different and it will only be based on the processes each employee does.
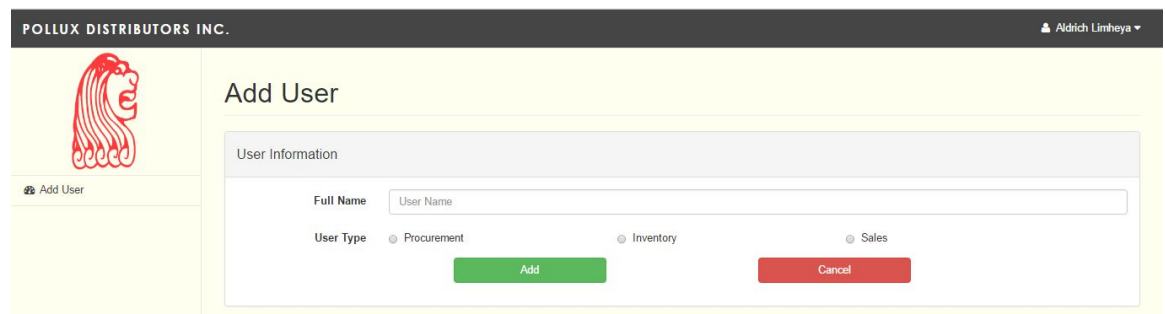
6.4 Screen Specificationsx

6.4.1 Login
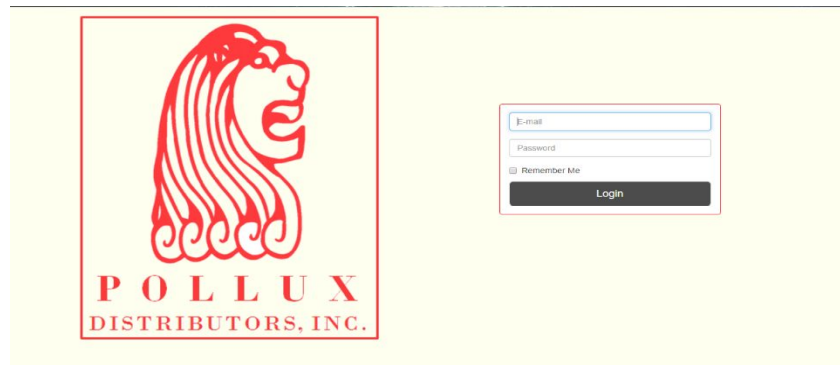
Screen Name:	Pollux Login
File Name:	pollux-login.php
Description:	This screen is where the users of the system log in.
Layout:	Screenshot with a size of 7x7 inches

6.4.2 Add User

Screen Name:	Add User
File Name:	createuse.php

Description :	This screen is where the new users are created
Layout:	Screenshot with a size of 7x7 inches

6.4.3 Add Supplier

Screen Name:	Add Supplier
File Name:	addsupplier.php
Description :	This screen is where the users of the system adds a new customer
Layout:	Screenshot with a size of 7x7 inches

6.4.4 Add Product
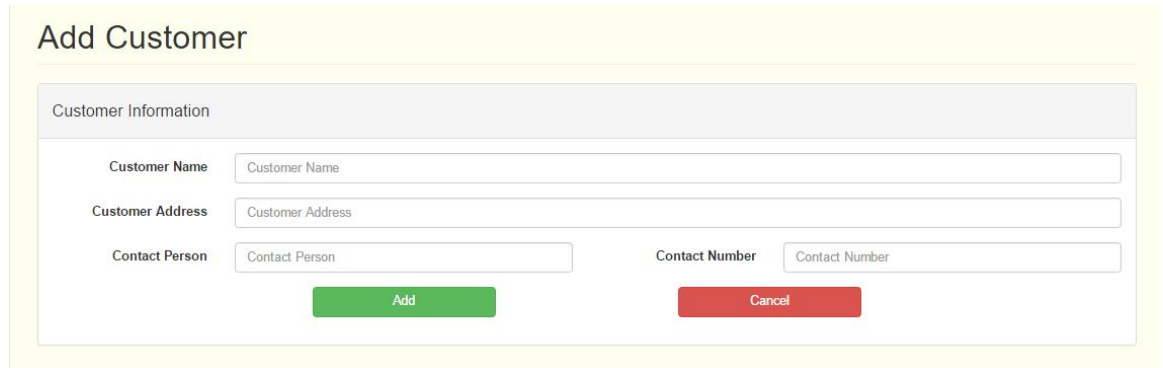
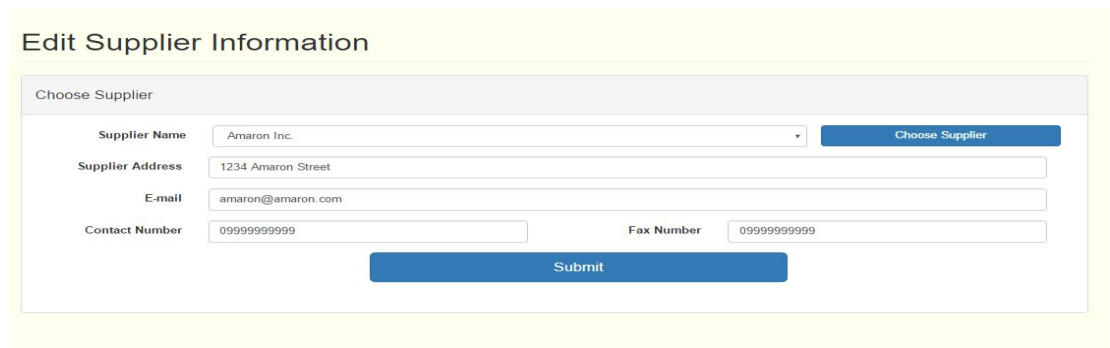| Screen Name:	Add Product
File Name:	addproduct.php
Description:	This screen is where the users of the system adds a new product
Layout:	Screenshot with a size of 7x7 inches

6.4.5 Add Customer

Screen Name:	Add Customer
File Name:	addcustomer.php
Description:	This screen is where the users of the system adds a new customer.
Layout:	Screenshot with a size of 7x7 inches

6.4.6 Edit Supplier

Screen Name:	Edit Supplier
File Name:	editsupplier.php
Description:	This screen is where the users of the system edits supplier information.
Layout:	Screenshot with a size of 7x7 inches

6.4.7 Edit Product Price

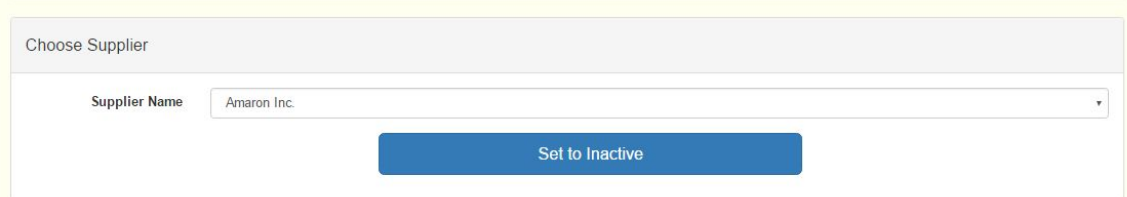| Screen Name:	Edit Product Price
File Name:	editproductprice.php
Description:	This screen is where the users of the system edits the product price
Layout:	Screenshot with a size of 7x7 inches

6.4.8 Edit Customer

Screen Name:	Edit Customer Info
File Name:	editcustomer.php
Description:	This screen is where the users of the system edits the customer's information
Layout:	Screenshot with a size of 7x7 inches

6.4.9 Set To Inactive Supplier
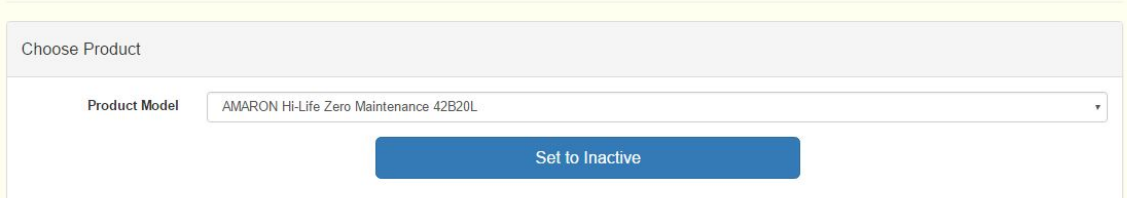
Screen Name:	Set Supplier to Inactive
File Name:	setsuppliertoinactive.php
Description:	This screen is where the users of the system sets the supplier to inactive whenever they are not buying from the supplier selected anymore.
Layout:	Screenshot with a size of 7x7 inches

6.4.10 Set To Inactive Product

Screen Name:	Set Product To Inactive
File Name:	setproducttoinactive.php
Description :	This screen is where the users of the system set products to inactive whenever the product is not sold anymore
Layout:	Screenshot with a size of 7x7 inches

6.4.11 Set To Inactive Customer

Screen Name:	Set Customer To Inactive
File Name:	setproducttoinactive.php
Description :	This screen is where the users of the system set customers to inactive whenever they are not buying products for a long period of time.
Layout:	Screenshot with a size of 7x7 inches

6.4.12 Purchase Order Form

Screen Name:	Purchase Order Form
File Name:	poform.php
Description :	This screen is where the users of the systemcreates a purchase order form to buy products from the supplier
Layout:	Screenshot with a size of 7x7 inches

6.4.13 Purchase Request

Purchase Request

Choose from Product Models

	Product Model	Invetory Count	Threshold
☐	AMARON Hi-Life Zero Maintenance 55B24LS/R	1	50
☐	AMARON PRO Zero Maintenance 100D26L	1	40
☐	AMARON PRO Zero Maintenance 65B24LS	1	40

Continue

Screen Name:	Purchase Request
File Name:	purchaserequest.php
Description:	This screen is where the users of the system requests for products to be procured.
Layout:	Screenshot with a size of 7x7 inches

6.4.14 Procurement Report

Generate Procurement Report

Pollux Distributors Inc
Procurement Report

Choose Date:

Start Date: dd/mm/yyyy   End Date: dd/mm/yyyy

Submit

Date Ordered	Date Received	Supplier	Product Model ID	Quantity Received
2016-10-30	2016-10-31	Amaron Inc.	AMARON Hi-Life Zero Maintenance 55B24LS/R	1
2016-10-31	2016-10-31	Amaron Inc.	AMARON PRO Zero Maintenance 65B24LS	1
2016-10-30	2016-10-31	Amaron Inc.	AMARON Hi-Life Zero Maintenance 42B20L	1
2016-10-31	2016-10-31	Amaron Inc.	AMARON Hi-Life Zero Maintenance 42B20L	10
2016-10-30	2016-10-31	Amaron Inc.	AMARON PRO Zero Maintenance 100D26L	1

Screen Name:	Procurement Report
File Name:	procurementreport.php

Description :	This screen is where the users of the system creates a procurement report
Layout:	Screenshot with a size of 7x7 inches

6.4.15 Sales Order Form

Screen Name:	Sales Order Form
File Name:	soform.php
Description :	This screen is where the users of the system creates a sales order form for ordering customers
Layout:	Screenshot with a size of 7x7 inches

6.4.16 Sales Report

Screen Name:	Sales Report
File Name:	salesreport.php
Description :	This screen is where the users of the system creates a sales report
Layout:	Screenshot with a size of 7x7 inches

6.4.17 Inventory Report

Screen Name:	Inventory Stock Report
File Name:	inventoryreport.php
Description:	This screen is where the users of the system creates an inventory report
Layout:	Screenshot with a size of 7x7 inches

6.5 Form Specifications

6.5.1 Sales Order Form

Form Name:	Sales Order Form
Description:	This is where the orders of the customers are recorded.
Prepared by:	The sales personnel records the order of the customer
Used By:	The Warehouse Personnel uses this form to be the basis for preparing the order of the customer. The customer keeps a copy of the sales order form for proof of order (not purchase). Sales Personnel keeps a copy for the customer's record.
Volume and Frequency:	3 copies of the sales order form are printed every time a customer places an order
Layout	7x5 inches The first row contains the logo of the company with the title of the form, the address of the company and the company's contact information. The second row contains the reference number of the sales order form and the date the sales order form was made. The next would be the customer's

	name, address, the contact person and his contact details. Below is the table which contains all the products ordered by the customer and the product's name, quantity, price, discount, and the amount. Then, after that, the remarks of the customer regarding details of the delivery are indicated. Then the names of the one who prepared the form and the one who approved the makings of the form will place their name and after printing, sign the forms.

6.5.2 Purchase Request Form

Form Name:	Purchase Request Form
Description:	Request of order received by the procurement manager
Prepared by:	Warehouse personnel
Used By:	Procurement manager
Volume and Frequency:	One copy made every time a product needs procuring
Layout	7x5 inches The first row contains the logo of the company with the title of the form, the address of the company and the company's contact information. The second row contains the reference number of the inventory update form and the date this form was made. Below will be the table containing the product name and quantity requested by the customer

6.5.3 Purchase Order Form

Form Name:	Purchase Order Form
Description:	This is where the orders of the customers are recorded.
Prepared by:	The sales personnel records the order of the customer
Used By:	The Warehouse Personnel uses this form to be the basis for preparing the order of the customer. The customer keeps a copy of the sales order form for proof of order (not purchase). Sales Personnel keeps a copy for the customer's record.
Volume and Frequency:	1 copy of the purchase order every time procurement occurs
Layout	7x5 inches The first row contains the logo of the company with the title of the form, the address of the company and the company's contact information. The second row

	contains the reference number of the purchase order form and the date the purchase order form was made. The next would be the supplier's company name, address, the contact number and the fax number. Below that is the table which contains all the products ordered by the customer and the product's name, quantity, price, discount, and the amount. Then, after that, the remarks of the details of the delivery are indicated. Then the names of the one who prepared the form and the one who approved the makings of the form will place their name and after printing, sign the forms.

6.6 Report Specifications

6.6.1 Sales Report

Form Name:	Sales Report
Description:	This report generates all the products sold in a yearly basis.
Prepared by:	The Sales Manager
Used By:	The Procurement Manager will check for the sales trend here
Volume and Frequency:	1 copy is made when needed.
Layout	7x5 inches. The first row contains the logo of the company with the title of the form in a yearly basis. The information indicated are the date it was ordered, the delivery date, the customer who bought the product, the product itself, and its quantity.

6.6.2 Inventory Report

Report Name:	Inventory Stock Report
Description:	This report is for getting the amount of stocks available at a given month to be the reference for the sales trend.
Prepared by:	Warehouse Manager
Used By:	Warehouse Manager and Procurement Manager
Volume and Frequency:	1 copy is printed per month
Layout	Screen shot of 5x5 inches. The monthly inventory report contains the header being the company name then the name of the report and on which date. After that, a table will contain the product name, start of the date indicated quantity and the end of the date quantity

6.6.3 Procurement Report

Report Name:	Procurement Report
Description:	This report is to get a record of what items were procured and when they were ordered and received
Prepared by:	Procurement Manager
Used By:	Procurement Manager
Volume and Frequency:	1 copy is printed every time products are procured or every month.
Layout	Screen shot of 5x5 inches. The procurement report contains the header being the company name then the name of the report and on which date. After that, a table containing the date ordered, date received, supplier who provided the product, the product itself and, the quantity that was ordered will be indicated based on the start date and end date specified by the user.