

ISE 519- Fall 2017

**DATABASE APPLICATION FOR PRIMROSE
HEALTHCARE**



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CLIENT DESCRIPTION

Primrose Health Care

Primrose Healthcare is a GPO which provides technological solutions for management and integration of patient and hospital data. They also provide tools for Adherence, Engagement and Data reporting.

One of the biggest shifts in the structure of healthcare supply chains has been the emergence of Group Purchasing Organizations(GPOs).

GPOs were created as a method of promoting quality healthcare by enabling hospitals and healthcare providers to manage expenses by negotiating for better offers based on increasing standardization of goods and volumes purchased. Because many hospitals lack the data integrity, volumes of purchasing and contract transparency to conduct price leveraging, a host of GPOs have emerged that have dictated the base price of many products that would otherwise have been driven by traditional market factors.

GPOs have changed the focus of care in hospitals, and the organization of medical practice.

Client Contact: Dr. Robert Handfield | Ph: 919.515.4674 | rbandfi@ncsu.edu

PROBLEM DESCRIPTION:

Hospitals have a huge inventory of items which are difficult to manage and keep track of. The supply chain and management activities for the hospital inventory is a cumbersome process with lack of proper data integration system.

The Purchasing activities for Hospitals need Price Comparison for items from different vendors to maximize profits and utilize them for other healthcare activities.

In order to address above issues and to simplify the Inventory Control process in Hospitals, the goal of our project was to develop a user-friendly dashboard which would enable Data Integration and manipulation and perform other functionalities.

APPLICATION DESIGN AND DESCRIPTION

Objective: Development of a user-friendly dashboard for the client organization that facilitates integration and manipulation of the Hospital Items Inventory Database of three hospital facilities – Maimonides, UVM and CentraState.

The dashboard also implements Department Specific Functionalities for the following 3 departments of the above mentioned Health Care Facilities:

- 1) Purchasing 2) Marketing 3) Database Administration

Design Description:

The application developed by us opens with a Main form which contains the following buttons that direct to the Department Specific Forms.

1. Marketing:

This section of the application deals with the Marketing Department of the Health Care Facility. The forms in this section allow the user to Illustrate Cost Savings for Facility and also compare the prices with other facilities' prices.

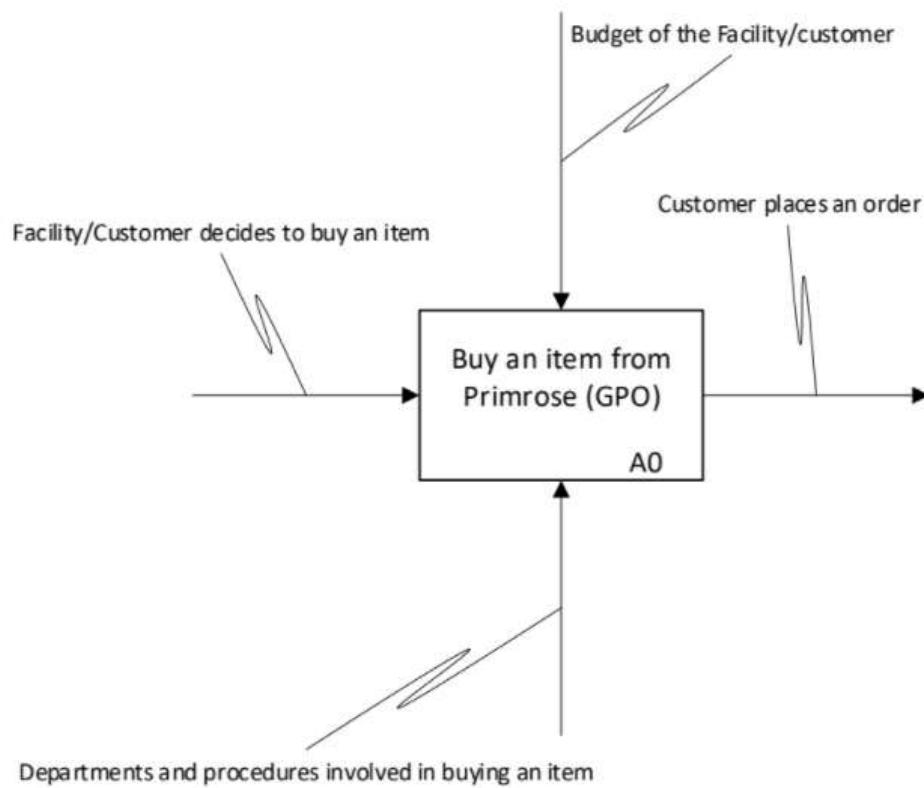
2. Purchasing:

This section of the application deals with the activities of the Purchasing department like Placing and Modifying Orders for items from any Item Category listed in the Items Inventory Database of each facility

3. Database Administration:

This section of the application is useful for Database Administration. It allows the user to add new items to the existing Items Database and also to modify existing items in the database.

IDEF0 MODEL



Context: A primrose executive can perform various departmental functions.

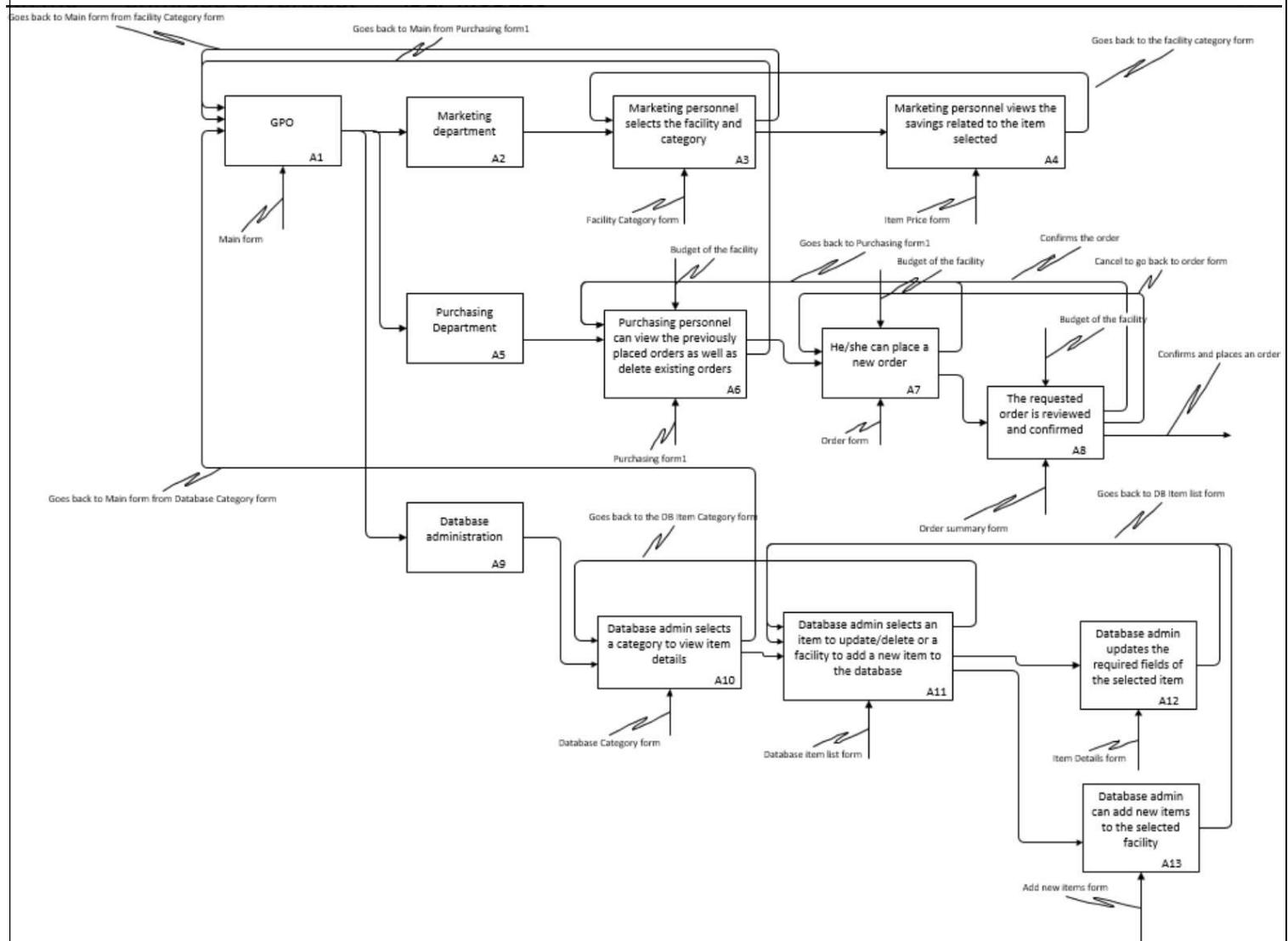
This includes:

- A marketing personnel compares prices and percentage savings.
- A database administrator adds/edits/delete items
- A purchase department executive can order items and edits and deletes already placed orders if need arises.

Viewpoint: The viewpoint is from a Primrose executive (can be from marketing/database administration or purchasing department)

Purpose: The purpose is to show the steps necessary for a Primrose executive to perform various departmental activities/responsibilities.

IDEF0 MODEL



IDEF1 MODEL

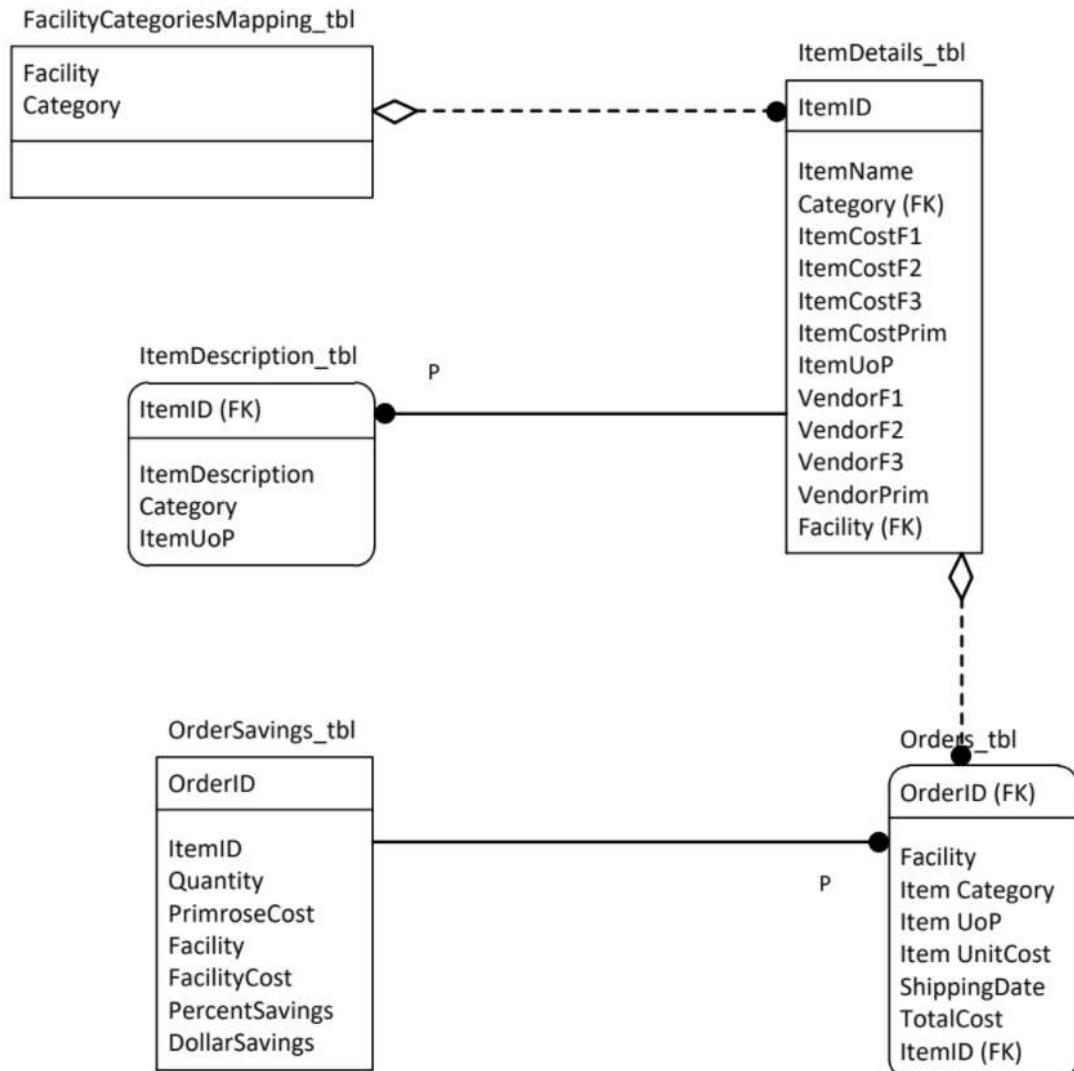


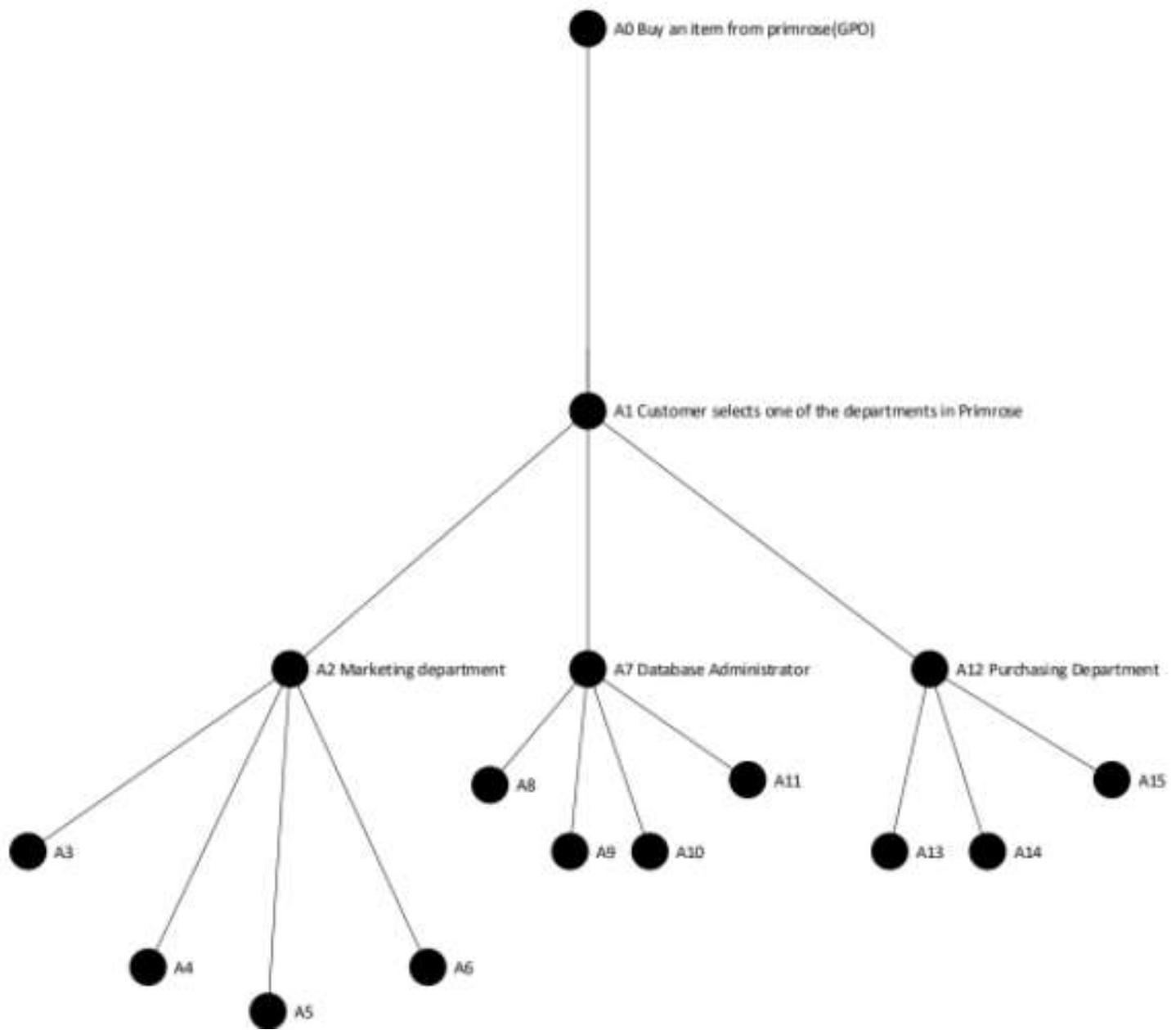
TABLE OF FORMS

Form Name	Form Description
1. Main Form	This form is the main form of the application and opens first. It contains three buttons that direct user to the respective departments.
2. Facility_Category_frm	This form in the Purchasing Department section allows the user to select the facility and Item category to view the Item Cost
3. Itemprice_frm	This form displays the Item Price and Percent Savings of the particular Item Category selected in the previous form.
4. Purchasing_frm	This form displays a list box of pre-existing order and allows the user to place new orders. This form also displays a graph of Order quantity per Order placed.
5. Order_frm	This form allows the user to view and select item details for placing a new order with the GPO.
6. OrderSummary_frm	This form allows user to check order summary, enter the order quantity and place the order/
7. Database_Category_frm	This form allows the user to select the Item Category to check Item Details.
8. DBItem_List_frm	This form allows the user to view Item Details in order to Update them or Add new Items to the Database
9. ItemDetails_frm	This form allows the user to enter details f the items to be Updated in the Database

10. Addnewitems_frm

This form allows the user to enter details of the new items to be added in the database

TREE DIAGRAM OF FORMS



FORMS

1) Main Form:



Object Name	Attached Queries	Attached Macros	Event Property
Marketing_cmd	-	Purchasingdept_mcro	On Click
Purchasing_cmd	-	Gotopurchasingfrm1_mcro	On Click
Databaseadmin_cmd	-	GotoDatabasefrm_mcro	On Click

FORMS

1) Main Form:

MACROS:

Macro Name	Object Name	Macro	Description
Purchasingdept_mcro	Facility_Category_frm	<p>OpenForm</p> <p>Form Name Facility_Category_frm View Form Filter Name Where Condition Data Mode Window Mode Normal</p> <p>SetValue</p> <p>Item =[Forms]![Main_frm].[Visible] Expression =No</p> <p>+ Add New Action</p>	This macro opens the Facility Category Form.
Gotopurchasingfrm1_mcro	Purchasing_frm1	<p>OpenForm</p> <p>Form Name Purchasing_frm1 View Form Filter Name Where Condition Data Mode Window Mode Normal</p> <p>SetValue</p> <p>Item =[Forms]![Main_frm].[Visible] Expression =No</p>	This macro opens the Purchasing Form.
GotoDatabasefrm_mcro	Database_Category_frm	<p>OpenForm</p> <p>Form Name Database_Category_frm View Form Filter Name Where Condition Data Mode Window Mode Normal</p> <p>SetValue</p> <p>Item =[Forms]![Main_frm].[Visible] Expression =No</p>	This macro opens the Database Category Form.

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FORMS

1) Facility_Category_frm:



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ITEM DETAILS

Please Select a facility and category whose item costs you wish to check.

FACILITY:

Facility name
CEN - CENTRSTATE
MAI - MAIMONIDES
UVM - UNIVERSITY OF VERMONT MEDICAL CENTER

CATEGORY:

Item Category



Object Name	Attached Queries	Attached Macros	Event Property
Catergory_lbx	SelectCategory_qry	Categoryselection_mcro	-
Facility_lbx	SelectFacility_qry	-	On selection
Command4- Check Item Cost	-	Checkitemprice_mcro	On Click
Command5- Back to Main Form		Mkt_to_main_mcro	On Click

FORMS

2) Facility_Category_frm:

MACROS:

Macro Name	Object Name	Macro	Description
Categoryselection_mcro	Catergory_lbx	<pre> If [Forms]![Facility_Category_frm]![Facility_lbx].[ListIndex]<0 Then MessageBox Message Please select the Facility prior to category Beep No Type None Title Facility Selection error StopMacro End If Requery Control Name Category_lbx </pre>	This macro populates the Category List Box in the form.
Checkitemprice_mcro	Command4	<pre> If [Forms]![Facility_Category_frm]![Category_lbx].[ListIndex]<0 Then MessageBox Message Please select the category before proceeding to item price Beep Yes Type None Title Category selection error StopMacro End If OpenForm Form Name Itemprice_frm View Form Filter Name Where Condition Data Mode Edit Window Mode Normal SetValue Item =[Forms]![Facility_Category_frm].[Visible] Expression =No </pre>	This macro activates the command button to check the Item Price.

Mkt_to_main_mcro	Command5	CloseWindow Object Type Form Object Name Facility_Category_frm Save No OpenForm Form Name Main_frm View Form Filter Name Where Condition Data Mode Window Mode Normal	This macro activates the command button to go back to the main form.
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QUERIES:

Query Name	Object Name	Sql Command	Description
SelectCategory_qry	Catgerory_lbx	SELECT DISTINCT [Item Category] FROM Item_Details_tbl WHERE [Facility name]=[Forms]![Facility_Category_frm]![Facility_lbx].Value;	This query populates the Item Category List Box
SelectFacility_qry	Facility_lbx	SELECT DISTINCT [Facility name] FROM Facility_Category_Mapping_tbl;	This query populates the Facility List Box.

FORMS

3) Itemprice_frm:

The screenshot shows a software application window titled "SAVINGS". At the top left is the Primrose Solutions logo with the tagline "Re-Engineering Healthcare". The main title "SAVINGS" is centered at the top. Below it is a message: "You can check percent savings for any item that a facility orders using the GPO here. Please select an item." Two input fields are present: "Facility Name: CEN - CENTRASTATE" and "Category Name: ANESTHESIA AIRWAY MANAGEMENT". A table titled "List of Items and price:" displays item details, costs, and GPO costs. Buttons for "Check Percent Savings" and "Percent Savings:" are shown. A link "Back to Facility and Category Selection" is at the bottom left, and the NC State University logo is at the bottom right.

Item Name	Cost to Facility	GPO Cost
ARTIFICIAL AIRWAY ACCESSORIES	\$27.42	\$25.36
BITE BLOCKS	\$33.78	\$31.25
TRACHEOSTOMY ACCESSORIES	\$2.69	\$2.59
TRACHEOSTOMY TUBES	\$33.93	\$31.38
EMERGENCY MEDICAL SERVICES OROPHARYNGEAL AIRWAY OR INTUBATION KIT	\$2.69	\$2.59

Object Name	Attached Queries	Attached Macros	Event Property
Categoryname_lbx	Categoryname_qry	-	-
List6	Mkt_Facility_Name_qry	-	-
PercentSavings_lbx	Mkt_Savings_Qry	-	-
Command5 - Check Percent Savings	-	checkPrimeprice_mcro	On click
Command8 - Back to Facility and Category Selection	-	Mkt_Back_to_Fac_Cat_mcro	On click
Item_lbx	Mkt_ItemCost_Qry	-	-

FORMS

2) Itemprice_frm:

MACROS:

Macro Name	Object Name	Macro	Description
checkPrimeprice_mcro	Command5 - Check Percent Savings	<pre> <code> If [Forms]![Itemprice_frm]![Item_lbx].[ListIndex]<0 Then MessageBox Message Please select atleast one item Beep Yes Type None Title Item selection error StopMacro End If Requery Control Name PercentSavings_lbx </code> </pre>	This macro activates the command button to check the Savings Percentage.
Mkt_Back_to_Fac_Cat_mcro	Command8	<pre> <code> If [Forms]![Facility_Category.frm]![Category_lbx].[ListIndex]<0 Then MessageBox Message Please select the category before proceeding to item price Beep Yes Type None Title Category selection error StopMacro End If OpenForm Form Name Itemprice_frm View Form Filter Name Where Condition Data Mode Edit Window Mode Normal SetValue Item =[Forms]![Facility_Category.frm].[Visible] Expression =No </code> </pre>	This macro activates the command button to return to the previous form.

QUERIES:

Query Name	Object Name	Sql Command	Description
Categoryname_qry	Categoryname_lbx	<pre>SELECT DISTINCT [Item Category] FROM Item_Description_tbl WHERE [Item Category]=[Forms]![Facility_Category_frm]![Category_lbx].Value;</pre>	This query populates the Category Name List Box
Mkt_Facility_Name_qry	List6	<pre>SELECT DISTINCT [Facility Name] FROM Item_Details_tbl WHERE [Facility Name] = Forms!Facility_Category_frm!Facility_lbx.Value;</pre>	This query is used to obtain the Facility Name
Mkt_Savings_Qry	PercentSavings_lbx	<pre>SELECT ROUND(((Cost to Facility)-[Cost to Primrose])/[Cost to Facility])*100), 2) & '%' AS [Percentage Savings] FROM Item_Details_tbl WHERE [Facility Name] = Forms!Facility_Category_frm!Facility_lbx.Value AND [Item Category] = Forms!Facility_Category_frm!Category_lbx.Value AND [Item Name] = Forms!Itemprice_frm!Item_lbx.Value;</pre>	This query is used to obtain the savings percentage in the list box
Mkt_ItemCost_Qry	Item_lbx	<pre>SELECT [Item Name], [Cost to Facility], [Cost to Primrose] AS [GPO Cost] FROM Item_Details_tbl WHERE [Item Category] = Forms!Facility_Category_frm!Category_lbx.Value AND [Facility Name] = Forms!Facility_Category_frm!Facility_lbx.Value;</pre>	This query is used to obtain the Items Cost in the list box

FORMS

3) Purchasing_frm:

Place an order for a Facility or cancel an existing order.

Pre-Existing Orders:

Order ID	Facility	Item ID	Item Category	Item Unit Cost	Quantity	Order Date	Shipping Date
1022	UVM - UNIVERSITY OF VERMONT	UVMO062	ARTHROSCOPY	\$19.80	13	11/13/2017	11/16/2017
1023	CEN - CENTRASTATE	CEN0047	OFFICE SUPPLIES	\$9.99	22	11/13/2017	11/16/2017
1024	CEN - CENTRASTATE	CEN1094	UROLOGY	\$99.00	11	11/13/2017	11/16/2017
1025	CEN - CENTRASTATE	CEN0982	ROBOTIC SURGERY	\$150.00	5	11/13/2017	11/16/2017
1026	CEN - CENTRASTATE	CEN0910	WOUND CARE, ADVANCED SKIN GRAFTS	\$285.62	6	11/13/2017	11/16/2017

[Place a new order](#) [Cancel and Delete Order](#) [Back to main menu](#)

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Quantity Per Order

Object Name	Attached Table/Queries	Attached Macros	Event Property
Orders_lbx	Orders_tbl	-	-
Graph17	SELECT [Order ID],Sum([Quantity]) AS [SumOfQuantity]	-	Double Click
Command4 - Place a new order	-	GotoOrderfrm_mcro	On Click
return_cmd - Back to main menu	-	Pur1_to_Main_mcro	-

FORMS

4)Purchasing_frm:

MACROS:

Macro Name	Object Name	Macro	Description
GotoOrderfrm_mcr0	Command 4	<p>□ OpenForm</p> <p>Form Name Order_frm View Form Filter Name Where Condition Data Mode Window Mode Normal</p> <p>⚠ SetValue</p> <p>Item =[Forms]![Purchasing_frm1].[Visible] Expression =No</p>	This macro activates command button to go back to Order form
Pur1_to_Main_mcr0	return_cmd	<p>⚠ CloseWindow</p> <p>Object Type Form Object Name Purchasing_frm1 Save No</p> <p>OpenForm</p> <p>Form Name Main_frm View Form Filter Name Where Condition Data Mode Window Mode Normal</p>	This macro activates command button to go back to Main form

QUERIES:

Query Name	Object Name	Sql Command	Description
	Graph17		

FORMS

4) Order_frm:

The screenshot shows the 'PLACE ORDER' screen of the Order_frm application. At the top left is the Primrose Solutions logo with the tagline 'Re-Engineering Healthcare'. A large blue button labeled 'PLACE ORDER' is at the top right. Below it, a message reads: 'Select item details to place an order with a GPO vendor.' On the left, a 'Facility:' label is followed by a list box containing 'CEN - CENTRASTATE', 'MAI - MAIMONIDES', and 'UVM - UNIVERSITY OF VERMONT MEDICAL C'. To the right of the list box is a 'Reset Selections.' button. Below this, a 'Select a Category:' label is followed by a dropdown menu titled 'Item Category' containing 'ANESTHESIA AIRWAY MANAGEMENT', 'ANESTHESIA EQUIPMENT AND ACCESSORIES', 'ARTHROSCOPY', and 'BLADES AND SCALPELS - CONVENTIONAL'. Further down, a 'Select an Item:' label is followed by a table with columns 'Item ID' and 'Item Name', which is currently empty. At the bottom are two buttons: 'Place an order' and 'Back to department Menu'. A red 'NC STATE' button is located at the bottom right.

Object Name	Attached Queries	Attached Macros	Event Property
CategoryPur_lbx	ItemCategory_qry	Categoryorder_mcro	On Click
FacilityOrder_lbx	SelectFacility_qry	Facilityorder_mcro	On Click
ItemnamePur_lbx	ItemNamePur_qry	-	On Click
Command9 - Reset Selections.	-	Resetoptions_mcro	-
Command10 - Back to department Menu	-	Orderfrm_to_pur1_mcro	-

FORMS

5) Order_frm: MACROS:

Macro Name	Object Name	Macro	Description
Categoryorder_mcro	CategoryPur_lbx	<pre> <input type="checkbox"/> If [Forms]![Order_frm]![FacilityOrder_lbx].[ListIndex]<0 Then StopMacro <input type="checkbox"/> Else Requery Control Name ItemnamePur_lbx End If </pre>	This macro is used to populate the Category List box.
Facilityorder_mcro	FacilityOrder_lbx	<pre> <input type="checkbox"/> If [Forms]![Order_frm]![CategoryPur_lbx].[ListIndex]<0 Then StopMacro End If Requery Control Name ItemnamePur_lbx </pre>	This macro is used to populate the Facility List box.
Resetoptions_mcro	Command9	<pre> <input type="checkbox"/> CloseWindow Object Type Form Object Name Order_frm Save Prompt <input type="checkbox"/> OpenForm Form Name Order_frm View Form Filter Name Where Condition Data Mode Window Mode Normal <input type="checkbox"/> OpenQuery Query Name Dlt_from_pur_temp_ID_tblqry View Datasheet Data Mode Edit <input checked="" type="checkbox"/> CloseWindow Object Type Query Object Name Dlt_from_pur_temp_ID_tblqry Save No </pre>	This macro is used to activate the command button to reset the selected fields.
Orderfrm_to_pur1_mcro	Command10	<pre> <input checked="" type="checkbox"/> CloseWindow Object Type Form Object Name Order_frm Save No <input checked="" type="checkbox"/> CloseWindow Object Type Form Object Name Purchasing_frm1 Save No <input type="checkbox"/> OpenForm Form Name Purchasing_frm1 View Form Filter Name Where Condition Data Mode Window Mode Normal </pre>	This macro is used to activate the command button to go to Dpt Menu.

QUERIES:

Query Name	Object Name	Sql Command	Description
ItemCategory_qry	CategoryPur_lbx	<pre>SELECT DISTINCT Item_Details_tbl.[Item Category] FROM Item_Details_tbl;</pre>	This query populates the Item Category List Box
SelectFacility_qry	FacilityOrder_lbx	<pre>SELECT DISTINCT [Facility name] FROM Facility_Category_Mapping_tbl;</pre>	This query populates the Facility List Box
ItemNamePur_qry	ItemnamePur_lbx	<pre>SELECT DISTINCT Item_Details_tbl.[Item ID], Item_Details_tbl.[Item Name] FROM Item_Details_tbl WHERE [Item Category]=[Forms]![Order_frm]!CategoryPur_lbx.Value AND [Facility name]=[Forms]![Order_frm]![FacilityOrder_lbx].Value ORDER BY Item_Details_tbl.[Item ID];</pre>	This query populates the Item Name List Box

FORMS

1) OrderSummary_frm:

ORDER SUMMARY AND CONFIRMATION

You can check the order summary, enter an order quantity and place order.

Item ID:	<input type="text" value="UVM0025"/>	Item Name:	<input type="text" value="ANAEROBIC JARS OR ACCESSORIES"/>
Order ID:	<input type="text" value="1028"/>		
Order Date:	<input type="text" value="11/24/2017"/>	Shipping Date:	<input type="text" value="11/27/2017"/>
Order Quantity:	<input type="text"/>		
Total cost of the order		Total Cost: <input type="text"/>	
Confirm the Order		Cancel Order	

Object Name	Attached Queries	Attached Macros	Event Property
ItemName	Itemnamefororder_qry		On Click
ItemID_lbx	Pur_ItemIDfororder_qry		On Click
Command19 – Cancel Order		BackToOrderForm_mcro	On Click
Get_Total_Cost_cmd - Total cost of the order		Pur_TotalOrderCost_Mcro	
TotalCost_lbx	Pur_Total_Cost_qry		
Command17 – Confirm the order		Confirmorder_mcro	On click

FORMS

1) OrderSummary_frm:

MACROS:

Macro Name	Object Name	Macro	Description
BackToOrderForm_mcro	Command19	<p>CloseWindow Object Type Form Object Name OrderSummary_frm Save No</p> <p>SetValue Item =[Forms]![Order_frm].[Visible] Expression =True</p> <p>OpenQuery Query Name Dlt_from_pur_temp_ID_tblqry View Datasheet Data Mode Edit</p> <p>CloseWindow Object Type Query Object Name Dlt_from_pur_temp_ID_tblqry Save Prompt</p> <p>OpenQuery Query Name Dlt_from_temp_order_tblqry View Datasheet Data Mode Edit</p> <p>CloseWindow Object Type Query Object Name Dlt_from_temp_order_tblqry Save Prompt</p>	This macro is used to activate the command button to go back to the Order form.
Pur_TotalOrderCost_Mcro	Get_Total_Cost_cmd	<p>Requery Control Name TotalCost_lbx</p>	This macro activates the button to get total cost.

Confirmorder_mcro	Command17	<pre> Window Mode Normal OpenQuery Query Name Dlt_from_temp_order_tblqry View Datasheet Data Mode Edit CloseWindow Object Type Query Object Name Dlt_from_temp_order_tblqry Save No OpenQuery Query Name Dlt_from_pur_temp_ID_tblqry View Datasheet Data Mode Edit CloseWindow Object Type Query Object Name Dlt_from_pur_temp_ID_tblqry Save Prompt <hr/> SetWarnings Warnings On No OpenQuery Query Name Pur_confirmorderqry View Datasheet Data Mode Edit CloseWindow Object Type Query Object Name Pur_confirmorderqry Save Prompt MessageBox Message Your order has been placed successfully! Beep Yes Type None Title Order Successful. CloseWindow Object Type Form Object Name OrderSummary_frm Save No CloseWindow Object Type Form Object Name Purchasing_frm1 Save No OpenForm Form Name Purchasing_frm1 View Form Filter Name Where Condition Data Mode </pre>	<p>This macro activates the command button to confirm order.</p>
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QUERIES:

Query Name	Object Name	Sql Command	Description
Itemnamefororder_qry	ItemName	<pre>SELECT [Item Name] FROM Item_Details_tbl WHERE [Item ID]=[Forms]![Order_frm]![ItemnamePur_lbx].Value;</pre>	This query is used to obtain the Item Name.
Pur_ItemIDfororder_qry	ItemID_lbx	<pre>SELECT [Item ID] FROM Item_Details_tbl WHERE [Item ID]=[Forms]![Order_frm]![ItemnamePur_lbx].Value;</pre>	This query is used to obtain the Item ID.
Pur_Total_Cost_qry	TotalCost_lbx	<pre>SELECT ([Cost to Primrose]*Forms!OrderSummary_frm!Order Quantity_cbx.Value) FROM Item_Details_tbl WHERE [Item ID] = Forms!Order_frm!ItemnamePur_lbx.Value;</pre>	This query is used to obtain the Total Cost.

FORMS

1) Database_Category_frm:

Primrose Solutions
Re-Engineering Healthcare

ITEM CATEGORY SELECTION

Select an Item Category:

Item Category

- ANESTHESIA AIRWAY MANAGEMENT
- ANESTHESIA EQUIPMENT AND ACCESSORIES
- ARTHROSCOPY
- BLADES AND SCALPELS - CONVENTIONAL
- BLADES AND SCALPELS - SAFETY
- BLADES AND SCALPELS - SPECIALTY
- BLOOD AND URINE COLLECTION SUPPLIES
- CALIBRATOR
- CATHETER,CORONARY DILATION
- CATHETER,PULMONARY
- CATHETERS
- CATHETERS, CENTRAL VENOUS

CHECK ITEM DETAILS

GO BACK TO MAIN FORM

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Object Name	Attached Queries	Attached Macros	Event Property
Database_Category_lbx	ItemCategory_qry	-	-
Command9 - GO BACK TO MAIN FORM	-	GobacktoMainfromDBfrm_mcro	On Click
Command10 - CHECK ITEM DETAILS	-	GotoDBItemListfrm_mcro	On Click

FORMS

1) Database_Category_frm: MACROS:

Macro Name	Object Name	Macro	Description
GobacktoMainfromDBfrm_mcro	Command9	<pre> □ CloseWindow Object Type Form Object Name Database_Category_frm Save Prompt OpenForm Form Name Main_frm View Form Filter Name Where Condition Data Mode Window Mode Normal </pre>	This macro is used to activate the Command button to go back to the Main form
GotoDBItemlistfrm_mcro	Command10	<pre> □ If [Forms]![Database_Category_frm]![Database_Category_lbx].[ListIndex]<0 Then MessageBox Message Please select atleast one category Beep Yes Type None Title Category Selection Error StopMacro End If OpenForm Form Name DBItem_List_frm View Form Filter Name Where Condition Data Mode Window Mode Normal ▲ SetValue Item =[Forms]![Database_Category_frm].[Visible] Expression =No ▲ SetValue Item =[Forms]![DBItem_List_frm]![facility_to_add_item_lbx].[Visible] Expression =No </pre>	This macro is used to activate the Command button to go back to the Item list form

QUERIES:

Query Name	Object Name	Sql Command	Description
ItemCategory_qry	Database_Category_lbx	<pre> SELECT DISTINCT Item_Details_tbl.[Item Category] FROM Item_Details_tbl; </pre>	This query is used to populate the Item Category List Box

FORMS

1) DBItem_List_frm:

MODIFY DATABASE

Item List:

Item ID	Facility name	Item Name	Primrose Vendor	Primrose price
CEN0989	CEN - CENTRASTATE	SURGICAL SCALPELS OR KNIVES OR BL/CARDINAL HEALTH INCORPOR	\$32.45	
MAI0947	MAI - MAIMONIDES	SURGICAL CLAMPS OR CLIPS OR FORCEPS ARGON MEDICAL DEVICES INC	\$255.00	
MAI1064	MAI - MAIMONIDES	SURGICAL SCALPELS OR KNIVES OR BL/ANGIODYNAMICS INCORPOR	\$828.12	
UVM1514	UVM - UNIVERSITY OF VENTILATOR ACCESSORIES		BECTON DICKINSON	\$140.60

[Update Item](#)
[Select Facility to add item](#)
[Go back](#)
[Delete Item](#)

NC STATE

Object Name	Attached Queries	Attached Macros	Event Property
DBItem_List_lbx	DBItemlist_qry	-	-
facility_to_add_item_lbx	SelectFacility_qry	-	-
add_cmd	-	Addnewitems_mcro	On Click
Addnewitem_cmd	-	selectacategorytoaddnewitem_mcro	On Click
back_cmd	-	GobacktoDBcategoryfrm_mcro	On Click
cancel_cmd	-	DBItem_List_frm_loading_mcro	On Click
Delete_cmd	-	Dlt_from_item_details_desc_tbl_mcro	On Click
update_cmd	-	GotolItemDetailsfrm_mcro	On Click

FORMS

1) DBItem_List_frm:

MACROS:

Macro Name	Object Name	Macro	Description
Addnewitems_mcro	add_cmd	<pre> □ If [Forms]![DBItem_List_frm]![facility_to_add_item_lbx].[List] MessageBox Message Please select a Facility Beep Yes Type None Title Facility Selection error StopMacro End If OpenQuery Query Name ins_id_into_temp_item_tblqry View Datasheet Data Mode Edit □ CloseWindow Object Type Query Object Name ins_id_into_temp_item_tblqry Save No OpenQuery Query Name update_id_temp_item_tbl View Datasheet Data Mode Edit □ CloseWindow Object Type Query Object Name update_id_temp_item_tbl Save No OpenForm Form Name Addnewitems_frm View Form Filter Name Data Mode Window Mode Normal □ SetValue Item =[Forms]![DBItem_List_frr Expression =No </pre>	This macro is used to activate the Add command button.

selectacategorytoaddnewitem_macro	Addnewitem_cmd	<pre> SetValue Item =[Forms]![DBItem_List_frm]![DBItem_List_lbx].[Visible] Expression =No SetValue Item =[Forms]![DBItem_List_frm]![update_cmd].[Visible] Expression =No SetValue Item =[Forms]![DBItem_List_frm]![back_cmd].[Visible] Expression =No SetValue Item =[Forms]![DBItem_List_frm]![Delete_cmd].[Visible] Expression =False SetValue Item =[Forms]![DBItem_List_frm]![facility_to_add_item_lbx].[Visible] Expression =Yes SetValue Item =[Forms]![DBItem_List_frm]![add_cmd].[Visible] Expression =True SetValue Item =[Forms]![DBItem_List_frm]![cancel_cmd].[Visible] Expression =True OpenQuery Query Name Dlt_From_temp_item_tblqry View Datasheet Data Mode Edit CloseWindow Object Type Query Object Name Dlt_From_temp_item_tblqry Save No </pre>	This macro is used to activate the Add new Item command button.
GobacktoDBcategoryfrm_macro	back_cmd	<pre> CloseWindow Object Type Form Object Name DBItem_List_frm Save No CloseWindow Object Type Form Object Name Database_Category_frm Save No OpenForm Form Name Database_Category_frm View Form Filter Name Where Condition Data Mode Window Mode Normal </pre>	This macro is used to activate the back command button to go back to the previous form.

DBItem_List_frm_loading_macro	cancel_cmd	<pre> SetValue Item = [Forms]![DBItem_List_frm]![DBItem_List_lbx].[Visible] Expression = True SetValue Item = [Forms]![DBItem_List_frm]![update_cmd].[Visible] Expression = True SetValue Item = [Forms]![DBItem_List_frm]![back_cmd].[Visible] Expression = True GoToControl Control Name back_cmd SetValue Item = [Forms]![DBItem_List_frm]![facility_to_add_item_lbx].[Visible] Expression = False SetValue Item = [Forms]![DBItem_List_frm]![Addnewitem_cmd].[Visible] Expression = True SetValue Item = [Forms]![DBItem_List_frm]![Delete_cmd].[Visible] Expression = True SetValue Item = [Forms]![DBItem_List_frm]![add_cmd].[Visible] Expression = False SetValue Item = [Forms]![DBItem_List_frm]![cancel_cmd].[Visible] Expression = False </pre>	This macro is used to activate the Cancel command button.
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Dlt_from_item_details_desc_tbl_mcro	Delete_cmd	<pre> ⓧ If [Forms]![DBItem_List_frm]![DBItem_List_lbx].[ListIndex]<0 Then MessageBox Message Please Select an item Beep Yes Type Warning! Title Item Selection error StopMacro End If ⓢ SetWarnings Warnings On No OpenQuery Query Name Dlt_from_Item_Details_tbl_qry View Datasheet Data Mode Edit ⓢ CloseWindow Object Type Query Object Name Dlt_from_Item_Details_tbl_qry Save No OpenQuery Query Name Dlt_from_Item_Desc_tbl_qry View Datasheet Data Mode Edit ⓢ CloseWindow Object Type Query Object Name Dlt_from_Item_Desc_tbl_qry Save No MessageBox Message Selected item deleted successfully Beep Yes Type None Title Delete action ⓢ CloseWindow Object Type Form Object Name DBItem_List_frm Save No ⓢ CloseWindow Object Type Form Object Name Database_Category_frm Save No OpenForm Form Name Database_Category_frm View Form Filter Name Where Condition Data Mode Window Mode Normal </pre>	This macro is used to activate the Delete command button.
GotoItemDetailsfrm_mcro	update_cmd	<pre> ⓧ If [Forms]![DBItem_List_frm]![DBItem_List_lbx].[ListIndex]<0 Then MessageBox Message Please select an item to update its details Beep Yes Type Warning! Title Item not selected. StopMacro End If OpenForm Form Name ItemDetails_frm View Form Filter Name Where Condition Data Mode Window Mode Normal ⓢ SetValue Item =[Forms]![DBItem_List_frm].[Visible] Expression =False </pre>	This macro is used to activate the Update command button.

QUERIES:

Query Name	Object Name	Sql Command	Description
DBItemlist_qry	DBItem_List_lbx	<pre>SELECT [Item ID], [Facility name], [Item Name], [Primrose Vendor], [Cost to Primrose] AS [Primrose price] FROM Item_Details_tbl WHERE [Item Category]=[Forms]![Database_Category_frm]! [Database_Category_lbx].Value ORDER BY [Item ID];</pre>	This query populates the Item List Box in the form.
SelectFacility_qry	facility_to_add_item_lbx	<pre>SELECT DISTINCT [Facility name] FROM Facility_Category_Mapping_tbl;</pre>	This query populates the Facility List Box.

FORMS

1) ItemDetails_frm:

The screenshot shows a Windows application window titled "UPDATE ITEM DETAILS". In the top left corner is the "Primrose Solutions" logo with the tagline "Re-Engineering Healthcare". The main area contains five input fields: "Edit details for:" (containing "MAI1064"), "Item Name" (empty), "Item Description" (empty), "Primrose Vendor" (empty), and "Primrose Cost" (empty). To the right of these fields are two buttons: "UPDATE" and "Cancel". In the bottom right corner of the window is a red rectangular button with the text "NC STATE UNIVERSITY" in white.

Object Name	Attached Queries	Attached Macros	Event Property
Itemname_cbx	Item_details_update_nameqry	-	-
ItemDesc_cbx	Item_details_update_descripqry	-	-
PrimCost_cbx	Item_details_update_primcostqry	-	-
PrimVendor_cbx	Item_details_update_primvendorqry	-	-
Command10 - Cancel	-	Item_detail_to_DBItemList_frm_mcro	On Click
Command8 - Update	-	Update_ItemDetails_mcro	On Click

FORMS

1) ItemDetails_frm:

MACROS:

Macro Name	Object Name	Macro	Description
Item_detail_to_DBItemList_frm_mcro	Command10 - Cancel	CloseWindow Object Type Form Object Name ItemDetails_frm Save Prompt OpenForm Form Name DBItem_List_frm View Form Filter Name Where Condition Data Mode Window Mode Normal	This macro is used to activate the Cancel command button on the form.

Update_ItemDetails_mcro	Command8 - Update	<pre> SetWarnings Warnings On No If IsNumeric([Forms]![ItemDetails_frm]![PrimCost_cbx].[Value])=False Then MessageBox Message Please enter a valid number Beep Yes Type None Title Invalid Number StopMacro End If OpenQuery Query Name update_item_details_tblqry View Datasheet Data Mode Edit CloseWindow Object Type Query Object Name update_item_details_tblqry Save No OpenQuery Query Name update_item_des_tblqry View Datasheet Data Mode Edit CloseWindow Object Type Query Object Name update_item_des_tblqry Save No MessageBox Message Item updated successfully! Beep Yes Type Information Title Updated Database CloseWindow Object Type Form Object Name ItemDetails_frm Save No OpenForm Form Name DBItem_List_frm View Form Filter Name Where Condition Data Mode Window Mode Normal </pre>	This macro is used to activate the Update button on the form.
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QUERIES:

Query Name	Object Name	Sql Command	Description
Item_details_update_descrip_qry	ItemDesc_cbx	<pre>SELECT [Item Description] FROM Item_Description_tbl WHERE [Item ID]=[Forms]![DBItem_List_frm]![DBItem_List_lbx].[Value];</pre>	This query populate the combo box for Item Description
Item_details_update_name_qry	Itemname_cbx	<pre>SELECT Item_Details_tbl.[Item Name] FROM Item_Details_tbl WHERE (((Item_Details_tbl.[Item ID])=[Forms]![DBItem_List_frm]![DBItem_List_lbx].[Value]));</pre>	This query populate the combo box for Item Name
Item_details_update_pricemcost_qry	PrimCost_cbx	<pre>SELECT Item_Details_tbl.[Cost to Primrose] FROM Item_Details_tbl WHERE (((Item_Details_tbl.[Item ID])=[Forms]![DBItem_List_frm]![DBItem_List_lbx].[Value]));</pre>	This query populate the combo box for Primrose cost of Items.
Item_details_update_pricingvendor_qry	PrimVendor_cbx	<pre>SELECT [Primrose Vendor] FROM Item_Details_tbl WHERE (((Item_Details_tbl.[Item ID])=[Forms]![DBItem_List_frm]![DBItem_List_lbx].[Value]));</pre>	This query populate the combo box for Vendor cost of Items.

FORMS

1) Addnewitems_frm:

Primrose Solutions
Re-Engineering Healthcare

ADD NEW ITEMS

Item ID:	<input type="text"/>	INSERT NEW ITEMS
Facility Name:	<input type="text"/>	RESET AND GO BACK
Item Name:	<input type="text"/>	
Item Category:	<input type="text"/>	
Facility Vendor:	<input type="text"/>	
Cost to Facility:	<input type="text"/>	
Primrose Vendor:	<input type="text"/>	
Cost to Primrose:	<input type="text"/>	
Item Description:	<input type="text"/>	

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Object Name	Attached Queries	Attached Macros	Event Property
ItemName_cbx	Item_Details_tbl	-	-
item_id_lbx	temp_item_input_tbl	-	-
ItemCategory_cbx	ItemCategory_qry	-	-
Primrosevendor_cbx	Item_Details_tbl	-	-
facility_name_lbx	Facility names_qry	-	-
Item_description_cbx	Item_Details_tbl	-	

Facilityvendor_cbx	Facility_mapping_tbl	-	-
Costtoperimrose_cbx	Item_Details_tbl	-	-
Costtofacility_cbx	Item_Details_tbl	-	-
Command9	-	Insertnewitems_mcro	On click
Command13	-	GobacktoDBItemListfrm_mcro	On click

Macro Name	Object Name	Macro	Description
Insertnewitems_mcro		<pre> SetWarnings Warnings On No If IsNumeric([Forms]![Addnewitems_frm]![Costtofacility_cbx].[Value])=False Then MessageBox Message Please enter a valid cost Beep Yes Type None Title Invalid Cost StopMacro End If If IsNumeric([Forms]![Addnewitems_frm]![Costtoperimrose_cbx].[Value])=False Then MessageBox Message Please enter a valid cost Beep Yes Type None Title Invalid Cost StopMacro End If OpenQuery Query Name Update_temp_item_tbl_allqry View Datasheet Data Mode Edit CloseWindow Object Type Query Object Name Update_temp_item_tbl_allqry Save No OpenQuery Query Name ins_into_item_details_tblqry View Datasheet Data Mode Edit CloseWindow Object Type Query Object Name ins_into_item_desc_tblqry Save No OpenQuery Query Name Dlt_From_temp_item_tblqry View Datasheet Data Mode Edit CloseWindow Object Type Query Object Name Dlt_From_temp_item_tblqry Save No MessageBox Message Item added to database successfully! Beep No Type Information Title Data Entry Successful CloseWindow Object Type Form Object Name Addnewitems_frm Save No CloseWindow Object Type Form Object Name DBItem_List_frm Save No OpenForm Form Name DBItem_List_frm View Form </pre>	This macro is used to insert new items to the database.

GobacktoDBItemListfrm_mcro		<p>⚠ SetWarnings Warnings On No</p> <p>⚠ CloseWindow Object Type Form Object Name Addnewitems_frm Save No</p> <p>⚠ CloseWindow Object Type Form Object Name DBItem_List_frm Save No</p> <p>OpenForm Form Name DBItem_List_frm View Form Filter Name Where Condition Data Mode Window Mode Normal</p> <p>OpenQuery Query Name Dlt_From_temp_item_tblqry View Datasheet Data Mode Edit</p> <p>⚠ CloseWindow Object Type Query Object Name Dlt_From_temp_item_tblqry Save No</p>	By this macro, user can go back to the item list form from the Addnewitems_frm.
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QUERIES:

Query Name	Object Name	Sql Command	Description
ItemCategory_qry	ItemCategory_cbx	SELECT DISTINCT Item_Details_tbl.[Item Category] FROM Item_Details_tbl;	This query is used to populate the Item Category Combo box from the Item Details Table