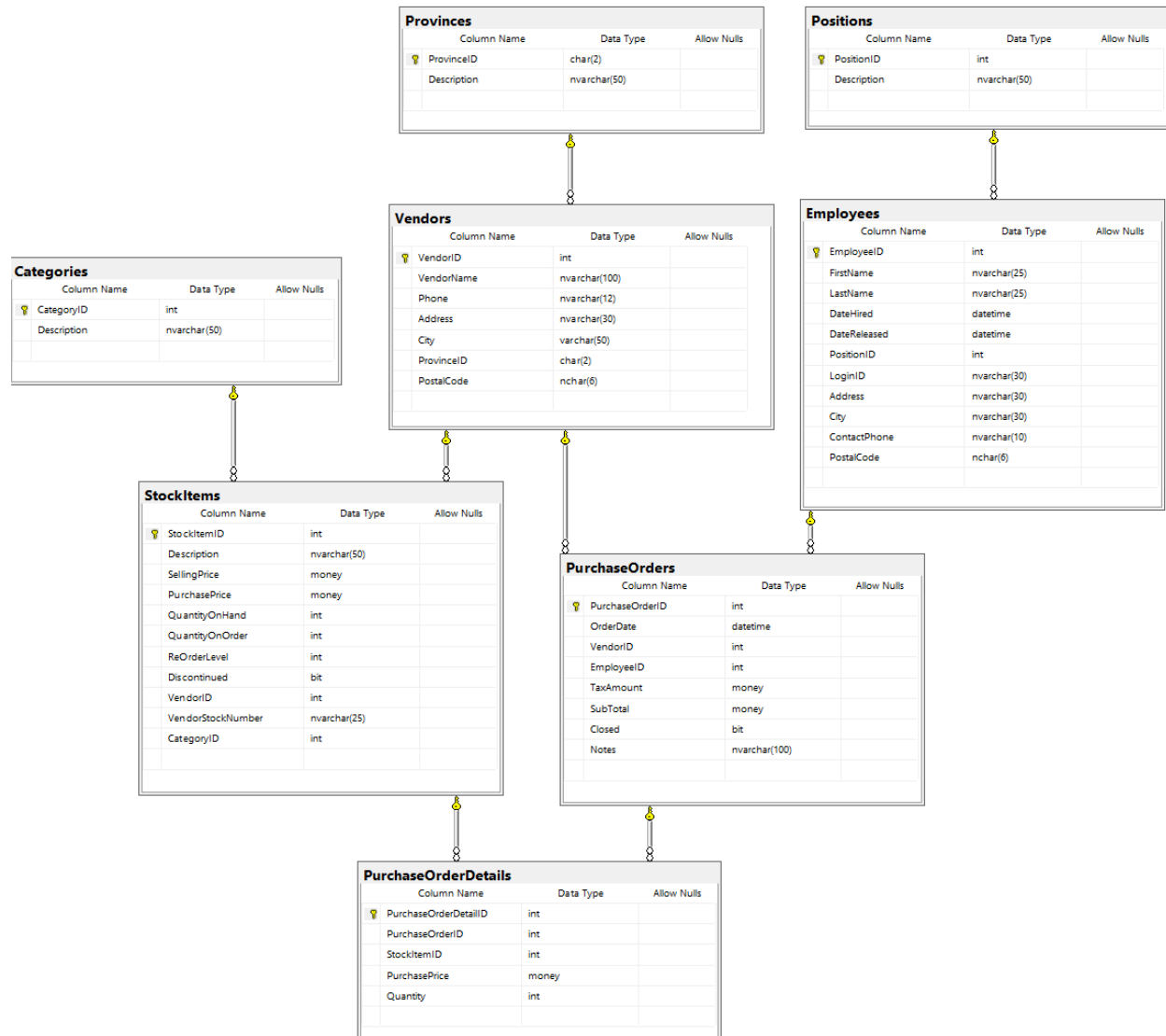


Purchasing Subsystem

ERD for UX process

Purchasing ERD



Possible UX Interface

1

Select a Vendor

2

Retrieve

3

Update

4

Place

5

Delete

6

Clear

Employee: John Doe

7

Phone

City

Purchase Order #

8

ID	Description	9	QOH	ROL	QOO	QTO	Price	
10	<div><div></div>5581 Snow Joe 11 in 10 Amp Electric Snow Shovel</div>	15	50	0	35	129.65	11	
	<div><div></div>5582 Toro Electric Power Shovel Snowblower</div>	23	65	0	42	115.45		
	<div><div></div>5583 Toro 1500 Electric PowerCurve Snowblower</div>	6	25	0	19	206.78		
	<div><div></div>5587 Echo 25.4 cc Handheld Power Blower</div>	16	25	0	9	154.56		
		Subtotal:	14706.51	GST:	735.33	Total:	15441.84	12

ID	Description	13	QOH	ROL	QOO	Buffer	Price (\$)
4567	65 oz Hammer	0	150	0	-150	11.74	14
5555	Canadian Solid State Stud Finder	66	50	0	16	5.65	
5579	Botanica Compact Shovel Round Point	65	50	0	3	24.78	
5580	Botanica D grip Round Point 35 in	2	65	0	11	8.96	

Event and Wiring Summations

Controls		Events
VendorDDL (1)		None / wired via Object Data Source
BLL Class(es) and Method (s)		
VendorController	List<VendorItem> Vendors_List() <ul style="list-style-type: none"> Retrieve the VendorID and VendorName to use as the value field and display field for the VendorDDL 	
SQL Table(s): (C,R,U,D)		ViewModel
Vendors(R)		VendorItem

Controls		Events
PurchaseOrderItemList (9) RetrieveVendor (2) VendorData (7) (Phone, City) PurchaseOrderID (8) POTotalData (12) (Subtotal, GST, Total) RemainingVendorItemList (13)		RetrieveVendor_OnClick <ul style="list-style-type: none"> Ensure VendorDDL selected value field is not 0 Retrieve the PurchaseOrder information and display on the PurchaseOrderItemList, otherwise populate that ListView with StockItems that <ul style="list-style-type: none"> Have the VendorID selected in VendorDDL Are not discontinued Have the value of (ReorderLevel – (QuantityOnHand + QuantityOnOrder)) greater than 0 Populate RemainingVendorItemList with items not on the current or suggested order
BLL Class(es) and Method (s)		
PurchaseOrderController StockItemController	PurchaseOrderItem PurchaseOrder_GetPO(int vendorid) <ul style="list-style-type: none"> Retrieve PurchaseOrder, PurchaseOrderDetail, StockItem, and Vendor information via the vendorid if there is a PurchaseOrder record that does not have a OrderDate <ul style="list-style-type: none"> Otherwise, retrieve only the Vendor information, then generate a Suggested order with items that are not discontinued and have the value of (ReorderLevel – (QuantityOnHand + QuantityOnOrder)) greater than 0 StockItem StockItem_GetSuggestedItems(int vendorid, int purchaseorderid) <ul style="list-style-type: none"> Retrieve and return StockItem information for items not on the current or suggested order via the vendorid and purchaseorderid 	
SQL Table(s): (C,R,U,D)		ViewModel
Vendors(R), PurchaseOrders(R), PurchaseOrderDetails(R), StockItems(R)		PurchaseOrderItem PurchaseOrderDetailItem

	StockItem
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Controls		Events
POItemDelete (10) PurchaseOrderItemList (9)		POItemDelete_OnClick <ul style="list-style-type: none">Warning box to confirm deletionRefresh page
BLL Class(es) and Method (s)		
PurchaseOrderDetailItem	void PurchaseOrderDetail_Delete(int purchaseorderid) <ul style="list-style-type: none">Delete the purchase order where the PurchaseOrderID = purchaseorderid	
SQL Table(s): (C,R,U,D)		ViewModel
PurchaseOrderDetails(D)		

Controls		Events
POItemRefresh (11) ItemOrderData(15) (ItemOrderPrice, ItemOrderQty) PurchaseOrderItemList (9)		POItemRefresh_OnClick <ul style="list-style-type: none">Update the Purchase Order totals after an item quantity and/or price has been altered
BLL Class(es) and Method (s)		
PurchaseOrderController	PurchaseOrderItem PurchaseOrder_UpdateTotalPrice(PurchaseOrderItem item) <ul style="list-style-type: none">Return the updated SubTotal and TaxAmount after the PurchaseOrderDetails Quantity and/or PurchasePrice	
SQL Table(s): (C,R,U,D)		ViewModel
PurchaseOrderDetails(U)		

Controls		Events
UpdateBtn(3)		UpdateBtn_OnClick <ul style="list-style-type: none">• If there is no current active order for the vendor, the suggested order becomes the new active order• Otherwise, the current active order is updated with the information on the page
BLL Class(es) and Method (s)		
PurchaseOrderController	int PurchaseOrder_Update(PurchaseOrderItem poitem, PurchaseOrderDetailItem poditem) TRX (all errors returned) <ul style="list-style-type: none">• Create a new purchase order from the suggested order or update the current active purchase order• Create PurchaseOrderDetail records for the purchase order• Update the QuantityOnOrder for all items from the order• Save changes / commit transaction if there are no errors	
SQL Table(s): (C,R,U,D)		ViewModel
PurchaseOrder(C,U) PurchaseOrderDetails(C,U)		PurchaseOrderItem

StockItem(U)	
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Controls		Events	
PlaceBtn(4)		PlaceBtn_OnClick <ul style="list-style-type: none">• Validate that the current user is a manager, otherwise display error message• If there are no current active orders for the vendor, display an error message• Display a warning box, indicating the order can no longer be changed once placed• If the purchase order detail information on the page does not match the information in the database, display an error message• Set the purchase order OrderDate to the current date• Update each StockItem's QuantityOnOrder to include the quantities in the placed order	
BLL Class(es) and Method (s)			
PurchaseOrderController	void PurchaseOrderItem_Place(PurchaseOrderItem item) TRX (all errors returned) <ul style="list-style-type: none">• Update existing purchase order's OrderDate field to have current date• Update each purchase order's item to add the purchase order's item quantities to the QuantityOnOrder field for each StockItem• Save changes / commit transaction if there are no errors		
SQL Table(s): (C,R,U,D)		ViewModel	
PurchaseOrders(C,U) StockItems(U)		PurchaseOrderItem	

Controls		Events	
DeleteBtn (5) PurchaseOrderID(8) PurchaseOrderItemList (9) RemainingVendorItemList (13)		DeleteBtn_OnClick <ul style="list-style-type: none">Warning box to confirm purchase order deletionEnsure order has not been placed<ul style="list-style-type: none">If order has been placed, display an error message	
BLL Class(es) and Method (s)			
PurchaseOrderController PurchaseOrderDetailController		void PurchaseOrder_Delete(int purchaseorderid) TRX (all errors returned) <ul style="list-style-type: none">Delete all records in PurchaseOrderDetails where the PurchaseOrderID = purchaseorderid	

	<ul style="list-style-type: none"> Delete the purchase order where the PurchaseOrderID = purchaseorderid Save changes / commit transaction if there are no errors
SQL Table(s): (C,R,U,D)	ViewModel
PurchaseOrders(D) PurchaseOrderDetails(D)	

Controls	Events
ClearBtn(6) PurchaseOrderItemList (9) RemainingVendorItemList (13)	ClearBtn_OnClick <ul style="list-style-type: none"> Warning box to clear all displays Clear the entire page of all vendor information, and clear the Purchase Order and Stock Item ListViews Reset the VendorDDL back to the prompt line
BLL Class(es) and Method (s)	
SQL Table(s): (C,R,U,D)	ViewModel

Controls	Events
ItemAdd (14) RemainingVendorItemList (13) PurchaseOrderItemList (9)	ItemAdd_OnClick <ul style="list-style-type: none"> Add the item to the PurchaseOrderItemList Remove the item from the RemainingVendorItemList
BLL Class(es) and Method (s)	
SQL Table(s): (C,R,U,D)	ViewModel

VendorItem		
VendorID	int	Vendors
VendorName	string	Vendors
Phone	string	Vendors
Address	string	Vendors
City	string	Vendors

PurchaseOrderItem		
PurchaseOrderID	int	PurchaseOrders
OrderDate	DateTime	PurchaseOrders
VendorID	int	Vendors
EmployeeID	Int	Employees

PurchaseOrderDetailItem		
PurchaseOrderDetailID	int	PurchaseOrderDetails
PurchaseOrderID	int	PurchaseOrders
PurchasePrice	decimal	StockItems
Quantity	int	PurchaseOrderDetails

StockItem		
StockItemID	int	StockItems
Description	string	StockItems
PurchasePrice	decimal	StockItems
QuantityOnHand	int	StockItems
QuantityOnOrder	int	StockItems
ReOrderLevel	int	StockItems