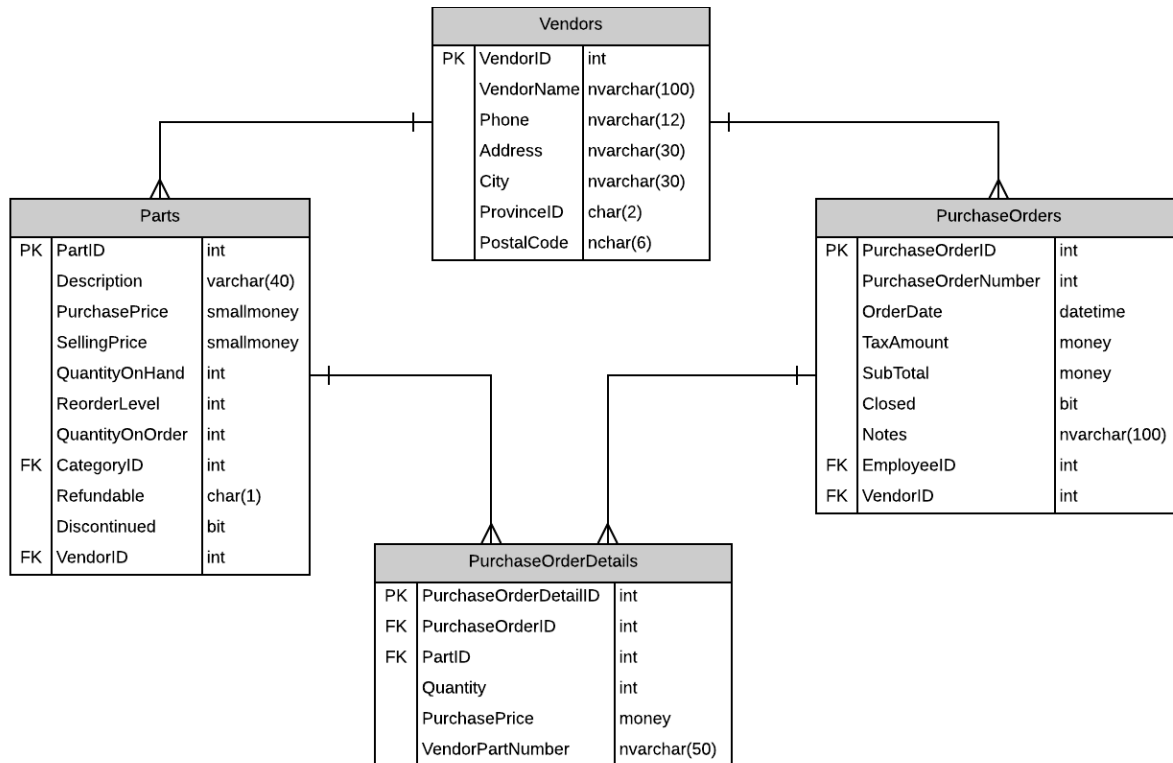


eBikes Purchasing

ERD for UX process



Possible UX Interface

Purchasing

Employee: Ken Fixit

Vendor

Cycle Glass

Get / Create PO

Vendor Name: Cycle Glass
 City Located: Edmonton
 Phone Number: 780.966.5896

Current Inventory

ID	Description	QOH	QOO	ROL	Buffer	Price	
103	Exhaust System	24	0	6	18	250.00	Add
105	Front brakes	5	5	10	0	40.00	Add
106	Manifold	12	1	4	9	150.00	Add
126	Fuel Filter	56	0	10	46	18.65	Add
127	Brake Oil, pint	125	0	70	55	3.65	Add
130	bulbs, signal	200	0	100	100	2.95	Add
131	bulbs, running	185	0	100	85	1.95	Add
132	bulbs, front	185	0	100	85	2.95	Add

Current Purchase Order

ID	Description	QOH	QOO	ROL	Qty	Price	
102	O-ring gaskets	5	0	7	<input type="text" value="2"/>	<input type="text" value="30.00"/>	Remove
104	Rear brakes	5	0	10	<input type="text" value="5"/>	<input type="text" value="40.00"/>	Remove
107	Plugs	10	30	50	<input type="text" value="10"/>	<input type="text" value="10.00"/>	Remove
109	Air Filters	10	55	85	<input type="text" value="15"/>	<input type="text" value="10.00"/>	Remove
138	Engine Oil, quart	93	0	110	<input type="text" value="17"/>	<input type="text" value="3.65"/>	Remove

Update

Place

Delete

Clear

Subtotal 572.05 GST 28.60 Total 600.65

Event and Wiring Summations

VendorDetails Section:

Controls		Events
VendorDDL		OnSelectedIndexChanged / wired via ObjectDataSource <ul style="list-style-type: none">• Call BLL;• Bind returned data to VendorDetails;
BLL Class(es) and Method (s)		
PurchasingController	List<VendorList> List_Vendors() <ul style="list-style-type: none">• Retrieve a list of vendor names and vendor ids for DDL; VendorDDL_SelectedIndexChanged() <ul style="list-style-type: none">• Retrieve a list of vendor information to display the vendor name, city, and phone#. Display in VendorDetails.	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
Vendors (R)		VendorList (P)

Controls		Events
GetOrCreateOrder(Vendor), SearchArgID		OnClick / wired via ObjectDataSource <ul style="list-style-type: none">Move VendorDDL ID to SearchArgID;Bind data to CurrentPurchaseOrder
BLL Class(es) and Method (s)		
PurchasingController	List<PurchaseOrderList> List_PurchaseOrders(int argid) <ul style="list-style-type: none">Retrieve the purchase order for the supplied vendor argument id. Return partId, description, quantityOnHand, quantityOnOrder, reorderLevel, quantity, purchasePrice ONLY IF the Purchase Order OrderDate and PurchaseOrderNumber is NULL; Add_PurchaseOrder() <ul style="list-style-type: none">A new order with suggested items will be generated by the system; Vendor Stock Items not on the displayed purchase order will be listed under Current Inventory. Display in CurrentPurchaseOrder, CurrentInventory.	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
PurchaseOrders(R, C), PurchaseOrderDetails(R, C)		PurchaseOrderList(P)

Current Purchase Order Section:

Controls		Events
PurchaseOrderListView (partId, description, quantityOnHand, quantityOnOrder, reorderLevel, quantity, purchasePrice)		OnClick / wired via ObjectDataSource <ul style="list-style-type: none"> • Validate data present; • call BLL; • Bind returned data to CurrentPurchaseOrder.
BLL Class(es) and Method (s)		
PurchasingController	List< PurchaseOrderDetailList > List_PurchaseOrderDetails() Retrieve the list part id, description, quantity on hand, quantity on order, reorder level, quantity and price for supplied purchase order. Display in CurrentPurchaseOrder.	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
PurchaseOrders(R), PurchaseOrderDetails (R)		PurchaseOrderList(P)

Controls		Events
PurchaseOrderListView (Subtotal, GST, Total)		None / wired via ObjectDataSource <ul style="list-style-type: none"> • Validate data present; • call BLL; • Bind returned data to CurrentPurchaseOrder.
BLL Class(es) and Method (s)		
PurchasingController	List< PurchaseOrderDetailList > List_PurchaseOrderDetails() Retrieve the list of items, their quantity and price for supplied purchase order. Return subtotal, GST, and total for those items. Display in CurrentPurchaseOrder.	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
PurchaseOrderDetails (R)		PurchaseOrderDetailList(P)

Controls		Events
Remove Item (Remove link in current purchase order listview)		OnClick <ul style="list-style-type: none"> • Removes that listview row item from the CurrentPurchaseOrder
BLL Class(es) and Method (s)		
PurchasingController	List< PurchaseOrderDetailList > List_PurchaseOrderDetails() Retrieve the list of items, their quantity and price for supplied purchase order. Return subtotal, GST, and total for those items. Display in CurrentPurchaseOrder.	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
PurchaseOrderDetails(R)		PurchaseOrderDetailList(P)

Controls	Events
Update Order (Update Button)	OnClick

	<ul style="list-style-type: none"> Processes the current purchase order and updates
BLL Class(es) and Method (s)	
PurchasingController	Update_PurchaseOrder() Updates the existing purchase order details with the new current purchase order details.
SQL Table(s): (C,R,U,D)	Entities/DTOs/POCOs
PurchaseOrderDetails(U)	PurchaseOrderDetails(E)

Controls	Events
Place Order (Place Button)	OnClick <ul style="list-style-type: none"> Processes the current purchase order and generates updates (date and PO#)
BLL Class(es) and Method (s)	
PurchasingController	Place_Order() Processes order and generates a current date and a purchase order number
SQL Table(s): (C,R,U,D)	Entities/DTOs/POCOs
PurchaseOrders (U)	PurchaseOrders(E)

Controls	Events
Delete Order (Delete Button)	OnClick <ul style="list-style-type: none"> Removes the current displayed purchase order
BLL Class(es) and Method (s)	
PurchasingController	Delete_Order() Removes the current displayed purchase order from PurchaseOrders and PurchaseOrderDetails
SQL Table(s): (C,R,U,D)	Entities/DTOs/POCOs
PurchaseOrders (D)	PurchaseOrders(E), PurchaseOrderDetails(E)

Controls	Events
Clear Order (Clear Button)	OnClick <ul style="list-style-type: none"> Clears all data on the current page
BLL Class(es) and Method (s)	
PurchasingController	Clear_Click() Clear CurrentPurchaseOrder Section of all data, Clear CurrentInventory of all data, Clear VendorDetails area of all data. Display in VendorDetails, CurrentPurchaseOrder, CurrentInventory
SQL Table(s): (C,R,U,D)	Entities/DTOs/POCOs

Current Inventory Section:

Controls		Events
InventoryGridView (partId, description, quantityOnHand, quantityOnOrder, reorderLevel, buffer, purchasePrice)		None / wired via ObjectDataSource <ul style="list-style-type: none">• Validate data present;• call BLL;• Bind returned data to CurrentPurchaseOrder.
BLL Class(es) and Method (s)		
PurchasingController	List< PurchaseOrderDetailList > List_PurchaseOrderDetails() Retrieve the part id, description, quantity on hand, quantity on order, reorder level and price for supplied purchase order, buffer is calculated then displayed. Display in CurrentInventory.	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
PurchaseOrders(R), PurchaseOrderDetails (R)		PurchaseOrderList(P)
Add Item (Add link in inventory gridview)		OnClick <ul style="list-style-type: none">• Adds that gridview row item to the CurrentPurchaseOrder listview
BBL Class(es) and Method (s)		
PurchasingController	List< PurchaseOrderDetailList > List_PurchaseOrderDetails() Retrieve the part id, description, quantity on hand, quantity on order, reorder level and price for that item row in the gridview. Quantity is set to 1 as default in the current purchase order. Display in CurrentInventory.	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
PurchaseOrderDetails(R)		PurchaseOrderDetailList(P)