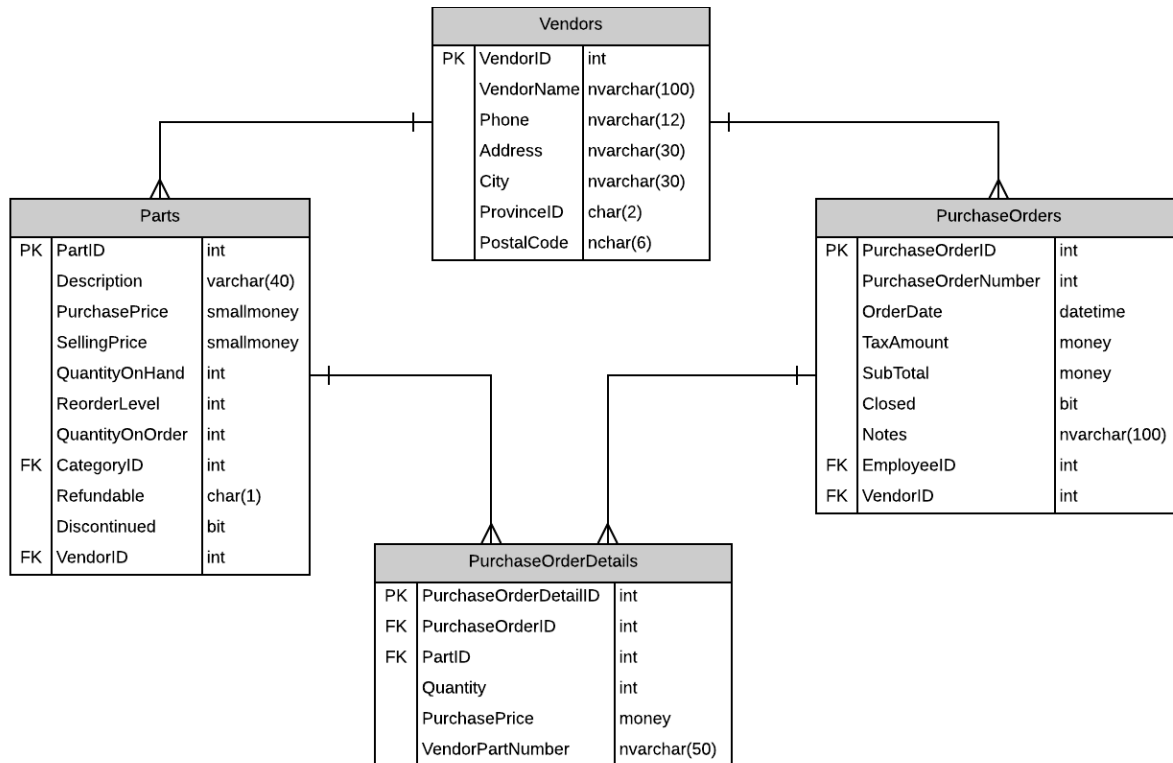


# eBikes Purchasing

## 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	<a href="#">Add</a>
105	Front brakes	5	5	10	0	40.00	<a href="#">Add</a>
106	Manifold	12	1	4	9	150.00	<a href="#">Add</a>
126	Fuel Filter	56	0	10	46	18.65	<a href="#">Add</a>
127	Brake Oil, pint	125	0	70	55	3.65	<a href="#">Add</a>
130	bulbs, signal	200	0	100	100	2.95	<a href="#">Add</a>
131	bulbs, running	185	0	100	85	1.95	<a href="#">Add</a>
132	bulbs, front	185	0	100	85	2.95	<a href="#">Add</a>

## 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"/>	<a href="#">Remove</a>
104	Rear brakes	5	0	10	<input type="text" value="5"/>	<input type="text" value="40.00"/>	<a href="#">Remove</a>
107	Plugs	10	30	50	<input type="text" value="10"/>	<input type="text" value="10.00"/>	<a href="#">Remove</a>
109	Air Filters	10	55	85	<input type="text" value="15"/>	<input type="text" value="10.00"/>	<a href="#">Remove</a>
138	Engine Oil, quart	93	0	110	<input type="text" value="17"/>	<input type="text" value="3.65"/>	<a href="#">Remove</a>

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"><li>• Call BLL;</li><li>• Bind returned data to VendorDetails;</li></ul>	
BLL Class(es) and Method (s)			
VendorController	List<VendorList> List_Vendors() <ul style="list-style-type: none"><li>• Retrieve a list of vendor names and vendor ids for DDL;</li></ul> VendorDDL_SelectedIndexChanged() <ul style="list-style-type: none"><li>• Retrieve a list of vendor information to display the vendor name, city, and phone#.</li></ul> 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"><li>Move VendorDDL ID to SearchArgID;</li><li>Bind data to CurrentPurchaseOrder</li></ul>	
BLL Class(es) and Method (s)			
PurchasingController	<div>List&lt;PurchaseOrderList&gt; List_PurchaseOrders(int argid)<ul style="list-style-type: none"><li>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;</li></ul></div> <div>Add_PurchaseOrder()<ul style="list-style-type: none"><li>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.</li></ul></div> <div>Display in CurrentPurchaseOrder, CurrentInventory.</div>		
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"> <li>• Validate data present;</li> <li>• call BLL;</li> <li>• Bind returned data to CurrentPurchaseOrder.</li> </ul>
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"> <li>• Validate data present;</li> <li>• call BLL;</li> <li>• Bind returned data to CurrentPurchaseOrder.</li> </ul>
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"> <li>• Removes that listview row item from the CurrentPurchaseOrder</li> </ul>
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"> <li>Processes the current purchase order and updates</li> </ul>
<b>BLL Class(es) and Method (s)</b>	
PurchasingController	Update_PurchaseOrder() Updates the existing purchase order details with the new current purchase order details.
<b>SQL Table(s): (C,R,U,D)</b>	<b>Entities/DTOs/POCOs</b>
PurchaseOrderDetails(U)	PurchaseOrderDetails(E)

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

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

<b>Controls</b>	<b>Events</b>
Clear Order (Clear Button)	OnClick <ul style="list-style-type: none"> <li>Clears all data on the current page</li> </ul>
<b>BLL Class(es) and Method (s)</b>	
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
<b>SQL Table(s): (C,R,U,D)</b>	<b>Entities/DTOs/POCOs</b>

## Current Inventory Section:

Controls		Events
InventoryGridView (partId, description, quantityOnHand, quantityOnOrder, reorderLevel, buffer, purchasePrice)		None / wired via ObjectDataSource <ul style="list-style-type: none"> <li>• Validate data present;</li> <li>• call BLL;</li> <li>• Bind returned data to CurrentPurchaseOrder.</li> </ul>
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
Parts(R),PurchaseOrders(R), PurchaseOrderDetails (R)		PurchaseOrderList(P)

Controls		Events
Add Item (Add link in inventory gridview)		OnClick <ul style="list-style-type: none"> <li>• Adds that gridview row item to the CurrentPurchaseOrder listview</li> </ul>
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
Parts(R), PurchaseOrderDetails(R)		PurchaseOrderDetailList(P)

You seem to have a handle on this subsystem. Remember your database modifications are done as transactions in the bll methods. As a single transaction in each method.