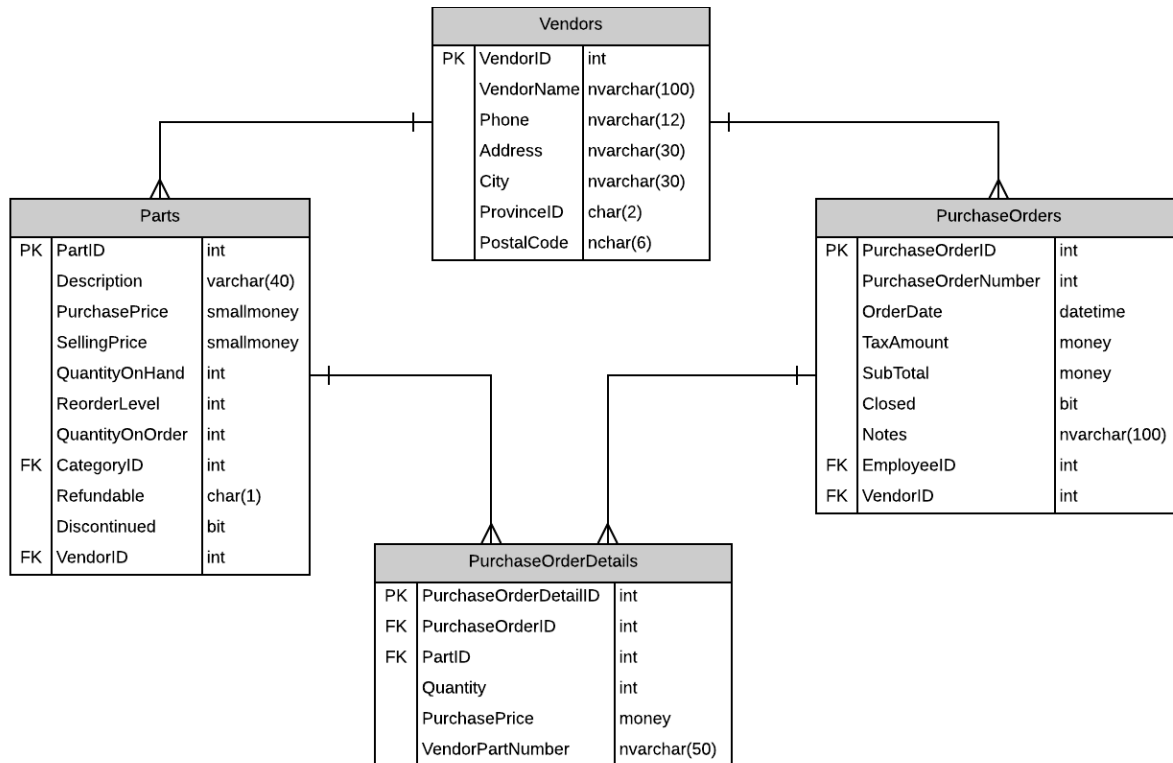


# eBikes Purchasing

## 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                             | <p>List&lt;PurchaseOrderList&gt; List_PurchaseOrders(int argid)</p> <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> <p>Add_PurchaseOrder()</p> <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> <p>Display in CurrentPurchaseOrder, CurrentInventory.</p> |  |
| 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()<br>Retrieve the list part id, description, quantity on hand, quantity on order, reorder level, quantity and price for supplied purchase order.<br>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()<br>Retrieve the list of items, their quantity and price for supplied purchase order. Return subtotal, GST, and total for those items.<br>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()<br>Retrieve the list of items, their quantity and price for supplied purchase order. Return subtotal, GST, and total for those items.<br>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()<br>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()<br>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()<br>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()<br>Clear CurrentPurchaseOrder Section of all data, Clear CurrentInventory of all data, Clear VendorDetails area of all data.<br>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()<br>Retrieve the part id, description, quantity on hand, quantity on order, reorder level and price for supplied purchase order, buffer is calculated then displayed.<br>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()<br>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.<br>Display in CurrentInventory. |  |
| SQL Table(s): (C,R,U,D)                   |  | Entities/DTOs/POCOs  |
| Parts(R), PurchaseOrderDetails(R)         |  | PurchaseOrderDetailList(P)   |