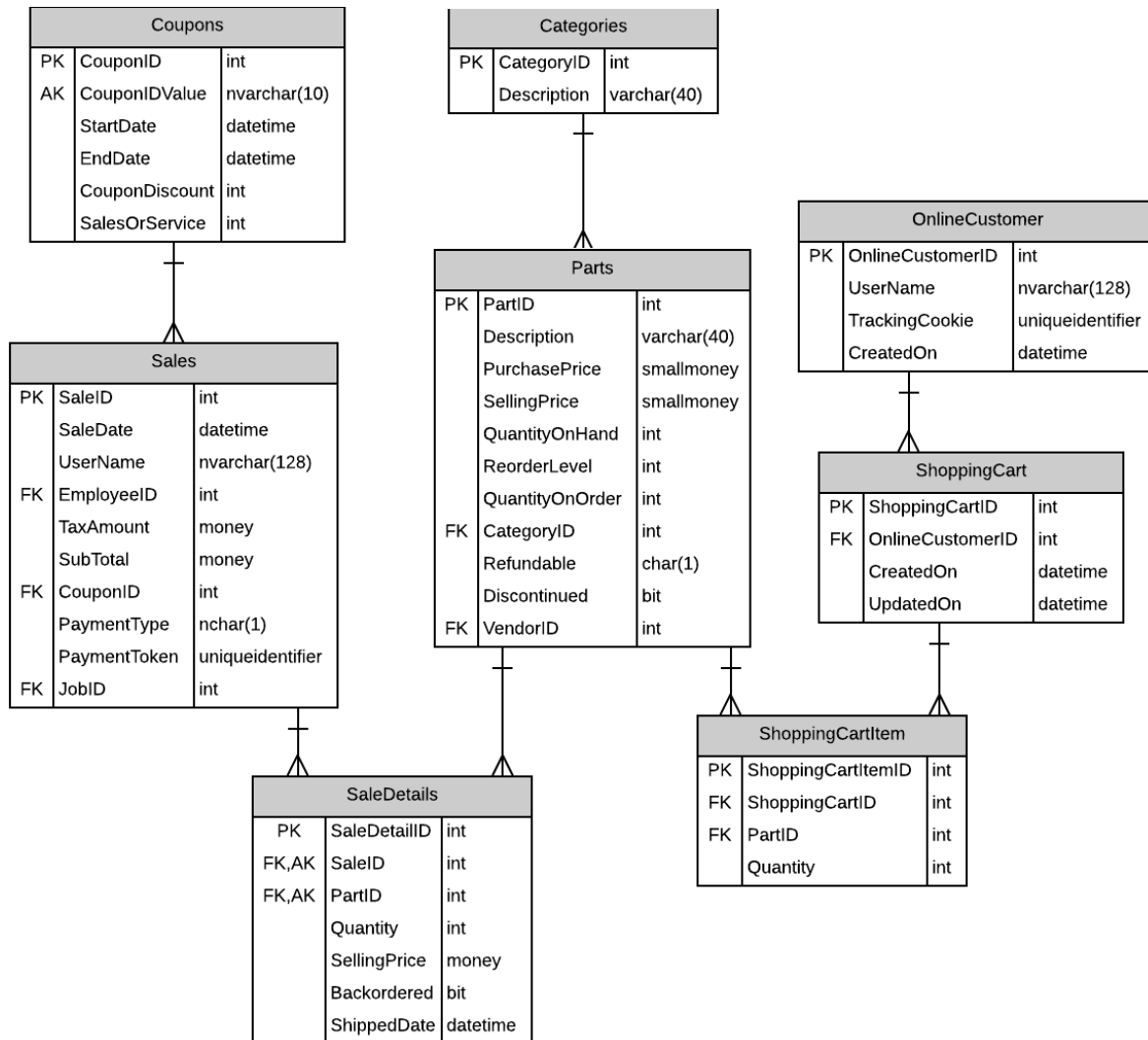


e Bike Sales by Michael Bateman

ERD for UX process




Possible UX Interface

Parts Catalog Available Online and In-Store

Browse by Category

Servicing ▾

Checkout

Shopping Cart 

Products

	Part Name	In Stock	Price
<div>Add</div> <div>1</div>	Brake Oil, pint	125	\$4.95
<div>Add</div> <div>1</div>	Transmission fluid, quart	33	\$4.95
<div>Add</div> <div>1</div>	Engine Oil, quart	93	\$4.95

First

Previous

Next

Last

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Your Shopping Cart

[← Back to Shopping](#)

Part Name	Quantity	Price(ea.)	Total		
Street Cuff Lock	<input type="text" value="1"/>	\$50.00	\$50.00	<div>Update</div>	<div>Remove</div>
Forged pistons	<input type="text" value="1"/>	\$50.00	\$50.00	<div>Update</div>	<div>Remove</div>
Brake Oil, pint	<input type="text" value="1"/>	\$4.95	\$4.95	<div>Update</div>	<div>Remove</div>
Helmet	<input type="text" value="1"/>	\$90.00	\$90.00	<div>Update</div>	<div>Remove</div>
Aviator goggle	<input type="text" value="1"/>	\$75.00	\$75.00	<div>Update</div>	<div>Remove</div>
Suit	<input type="text" value="1"/>	\$650.00	\$650.00	<div>Update</div>	<div>Remove</div>

Sub-Total: \$919.95
GST: \$46.00
Total: \$965.95

Continue >

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Purchase Details

[< Back to Shopping](#)

Enter your information for billing and shipping.

Billing Details

Name:

Email:

Address:

Phone:

Shipping Details

Name:

Email:

Address:


Phone:

[< Back](#)[Continue >](#)

Place Your Order

[← Back to Shopping](#)

Part Name	Quantity	Price(ea.)	Total
Street Cuff Lock	1	\$50.00	\$50.00
Forged pistons	1	\$50.00	\$50.00
Brake Oil, pint	1	\$4.95	\$4.95
Helmet	1	\$90.00	\$90.00
Aviator goggle	1	\$75.00	\$75.00
Suit	1	\$650.00	\$650.00



Payment Method

☒ Credit ☐ Debit

Sub-Total: \$919.95
Discount: \$0.00
GST: \$46.00
Total: \$965.95

[← Back](#)

[Place Order](#)

Event and Wiring Summations

Controls		Events
CategoryListDDL		None / wired via ObjectDataSource
BLL Class(es) and Method (s)		
PartsController	List<CategoryListPOCO> CategoryList() Retrieve a list of Category titles/item count and id for DDL	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
Categories(R), Parts(R)		CategoryListPOCO(P)

Controls		Events
PartsByCategory ListView		None / wired via ObjectDataSource
BBL Class(es) and Method (s)		
PartsController	List<Part> Parts_byCategoryList(int categoryid) Retrieve a list of parts for a category for List View	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
Parts(R)		Part(E)

Controls		Events
Button command AddToCartBtn		OnClick <ul style="list-style-type: none"> Send a part id and quantity to be added to a shopping cart Check if registered user, if not throw error Create online customer profile if first time shopper Check if customer has a shopping cart, if not create one Check if item is already in cart, if it is throw exception
BBL Class(es) and Method (s)		
ShoppingCartController	Void Add_ItemToCart (string username, int partid, int quantity) Validate registered user Validate online customer Validate shopping cart Validate part Add a quantity of a part to a user's shopping cart Update quantity in Parts table Use MessageUser to return success message	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
OnlineCustomers(R, C) ShoppingCarts(R, C) Parts(R, U), ShoppingCartItems(C)		OnlineCustomer(E), ShoppingCart(E), Part(E), ShoppingCartItem(E)

Controls		Events
ShoppingCartList ListView		None / wired via ObjectDataSource
BBL Class(es) and Method (s)		
ShoppingCartController	List<ShoppingCartItem> ShoppingCartList(string username) Retrieves a list of shopping cart items from a users cart for List View	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
ShoppingCartItems(R)		ShoppingCartItem(E)

Controls		Events
TotalsList GridView		None / wired via ObjectDataSource
BBL Class(es) and Method (s)		
ShoppingCartController	List<TotalsPOCO> Totals_List(int cartid) Find the items in a cart by id and calculate the subtotal, coupon, gst and total using selling price from parts table (don't display coupon discount in shopping cart view, only place order view)	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
ShoppingCarts(R) ShoppingCartItems(R) Parts(R)		TotalsPOCO(P)

Controls		Events
RemoveItem Button		OnClick <ul style="list-style-type: none"> Send the shopping cart item id for deleting Bind data to current ShoppingCart Bind data to totals
BBL Class(es) and Method (s)		
ShoppingCartController	List<ShoppingCartItem> Remove_Item(int itemid) Find the item by id and delete it from ShoppingCartItems	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
ShoppingCartItems(R, D)		ShoppingCartItem(E)

Controls		Events
UpdateQty Button		OnClick <ul style="list-style-type: none"> Send the shopping cart item id and quantity for updating Bind data to current ShoppingCart Bind data to totals
BBL Class(es) and Method (s)		
ShoppingCartController	List<ShoppingCartItem> Update_ItemQty(int itemid, int quantity) Find the item by id and update the quantity field in ShoppingCartItems	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
ShoppingCartItems(R, U)		ShoppingCartItem(E)

Controls		Events
CouponList DDL		None / wired via ObjectDataSource
BBL Class(es) and Method (s)		
SalesController	List<Coupon> Coupon_List() Retrieve a list of coupons that apply to sales (using SalesOrService int)	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
Coupons(R)		Coupon(E)

Controls		Events
CouponListRefresh Button		OnClick <ul style="list-style-type: none"> Send selected coupon id Bind totals list
BBL Class(es) and Method (s)		
SalesController	List<TotalsPOCO> Update_Totals(int couponid) Find the coupon by id and add the discount to the totals list	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
Coupons(R)		Coupon(E) TotalsPOCO(P)

Controls		Events
PlaceOrder Button		OnClick <ul style="list-style-type: none"> Send username, couponid and payment type to BLL for processing Bind data to Shopping Cart Bind data totals list
BBL Class(es) and Method (s)		
SalesController	void PlaceOrder(string username, int couponid, char paymenttype) Create a new sale with coupon, totals and payment type info	
Also uses ShoppingCartController	Create SaleDetail for each cart item in cart Update quantities in Parts table Delete ShoppingCartItems from cart Delete ShoppingCart	
SQL Table(s): (C,R,U,D)		Entities/DTOs/POCOs
Coupons(R) Sales(C) SaleDetails(C) Parts(U) ShoppingCartItems(D) ShoppingCarts(D)		Coupon(E) TotalsPOCO(P) Sale(E) SaleDetail(E) Part(E) ShoppingCartItem(E) ShoppingCart(E)