



Relational Schema

Customer(customer_id, first_name, last_name, phone, email, payment, paid_total, balance, da_line_one, da_line_two, da_city, da_state, da_zipcode)

Staff(staff_id, first_name, last_name, a_line_one, a_line_two, a_city, a_state, a_zipcode, phone, email, salary, job_title)

Supplier(supplier_id, name, phone, email, a_line_one, a_line_two, a_city, a_state, a_zipcode)

CreditCard(card_number, card_owner_name, card_expire_date, card_cvv, CBA_line_one, CBA_line_two, CBA_city, CBA_state, CBA_zipcode)

Category(id, name)

Product(product_id, product_name, price, size, add_info, category_id, category, image)

Orders(order_id, customer_id, payment_card_number, ordering_total, date_created, status)

Warehouse(warehouse_id, name, a_line_one, a_line_two, a_city, a_state, a_zipcode, capacity, capacity_used, capacity_remaining)

SupplierItem(supplier_id, product_id, supplier_price)

ProductPrice(product_id, delivery_state, price)

Stock(product_id, warehouse_id, item_quantity, size_total)

AddStock(staff_id, product_id, warehouse_id, add_quantity, add_size)

Availability(product_id, warehouse_id, item_quantity)

Owns(customer_id, card_number)

OrderItem(order_id, product_id, quantity, unit_price, subtotal)

Tasks		Code comments
Search for product available in home state	✓	Available product search refers to customer/route.py line 8-36. <Prerequisite> Staff set the product price in that state
Look up information about products	✓	View product details refers to product/route.py line 135-141.
Browse through catalog of such products grouped by "category"	✓	View product details refers to customer/route.py line 39-84.
Setup an account	✓	Set customer account refers to customer/route.py line 88-108.
Change preference and account details	✓	Change customer account details refers to customer/route.py line 131-163.
Add/Delete/Modify credit card	✓	Add new credit cards refers to customer/route.py line 198-222. Modify credit cards refers to customer/route.py line 238-272. Delete credit cards refers to customer/route.py line 276-296.
Add/Delete/Modify address	✓	Add new address refers to customer/route.py line 88-108. Modify/Delete addresses refers to customer/route.py line 131-163.
Order products in shopping cart	✓	Order products refers to product/route.py line 145-184.
Make payment	✓	Make payment refers to product/route.py line 145-184.
Add item to shopping cart	✓	Add items to shopping cart refers to cart/carts.py line 15-43.
Delete item from shopping cart	✓	Delete items from shopping cart refers to cart/carts.py line 84-108.
Change item quantity to shopping cart	✓	Modify items to shopping cart refers to cart/carts.py line 65-80.
Checkout: select one of the existing credit cards	✓	Select one of the credit card refers to product/route.py line 145-184.
Change account balance	✓	Select account balance refers to (payment_total) product/route.py line 145-184. & (paid_total) admin/route.py line 127-149
Bonus: show images for products	✓	Show images of products refers to cart/carts.py line 135-141.

Reduce availability quantity of products in the warehouse in the customer's state after receiving an order	✓	Change availability refers to product/route.py line 145-184.
Add/Delete/Modify products	✓	Add new products refers to product/route.py line 52-74. Modify product refers to product/route.py line 79-107.. Delete product refers to product/route.py line 111-131.
Add/Delete/Modify product pricing	✓	Add/Modify/Delete products' pricing refers to admin/route.py.
Update availability of product in stock	✓	Increase availability of product by adding stock refers to admin/route.py line 373-426

		Decrease availability after purchased by customers refers to product/ route.py line 145-182
Query customer information	✓	Query customer information refers to product/ route.py line 85-102.
Process orders	✓	Staff can process orders refers to product/ route.py line 127-170.
Add/Delete/Modify capacity in warehouses	✓	Add capacity in warehouse refers to admin/ route.py line 286-306. Modify capacity in warehouse refers to admin/ route.py line 323-351. Delete capacity in warehouse refers to admin/ route.py line 356-371.
Add/Delete/Modify stock in warehouses	✓	Add/ Modify stock in the warehouse refers to admin/ route.py line 375-425. Stock in the warehouse will automatically reduce when customers add orders which refers to product/ route.py line 145-184.
Bonus: check product availability when order is submitted	✓	Checking availability refers to product/ route.py line 145-184.
Bonus: check storage limits	✓	Checking storage limit refers to admin/ route.py line 275-282.

Register staff account	✓	Staff register refers to admin/ route.py line 36-56.
Login staff account	✓	Staff login refers to admin/ route.py line 60-81.
Add/Modify/Delete Supplier	✓	Add new suppliers refers to product/route.py line 185-204. Modify suppliers refers to product/route.py line 220-250. Delete suppliers refers to product/route.py line 254-271.
Add/Modify/Delete Warehouse	✓	Add new warehouses refers to product/route.py line 286-306. Modify warehouses refers to product/route.py line 323-351.. Delete warehouses refers to product/route.py line 355-371.

Modify/Delete Customer	✓	Modify customer refers to product/route.py line 220-250. Delete customer refers to refers to customer/ route.py line 131-163.
Review orders	✓	Review orders refers to customer/ route.py line 131-163.