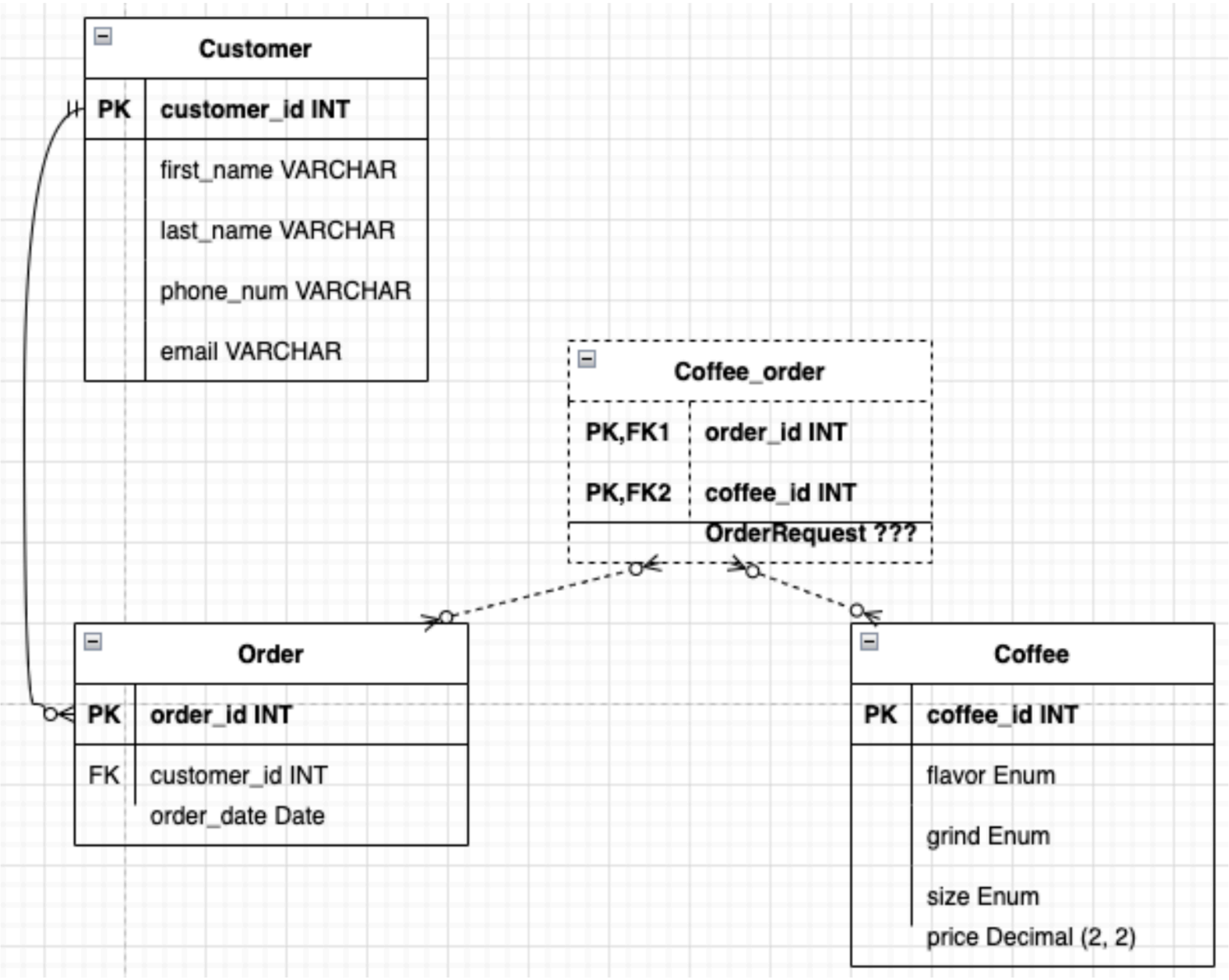
Coffee Subscription Service



GitHub Link:

https://github.com/joshuatmello/PromineoTechFinalProject

Project Participants:

Josh Mello

Executive Summary:

I LOVE coffee. There is actually local coffee roasting company that I really enjoy and they are very much a start-up, operate-out-of-their-garage type of business. They sell their product at the farmer’s market but do not have a website and have not expanded beyond the farmer’s market or local deliveries right now. My thought is that it would be fun to create and implement a RESTful Web API with full CRUD operations on a MySQL database that could ultimately be provided to this company in the long-term, and after I finish working through my “Stretch Goals”. Since they only sell whole bean or ground coffee of a variety of types, I thought it would be a good way to approach this project. Who knows, if it works out, I might be able to get some free coffee out of it!

Initial Features:

Entities:

Customer, Order, Coffee, Coffee_Order

Customer: customerID; firstName; lastName; phone; email

Order: orderID; customerID; orderTotal

Coffee: coffeeID; flavor, size, grind, price

CoffeeOrder: FK’s from Order, Coffee, OrderRequest

Relationships:

One-to-many relationship:

customer to order

order to customer

coffee to order

Many-to-many relationship:

the join table Coffee_Order connects the Order and Coffee tables in a many-to-many relationship

The goal of my API will be to be able to perform the following operations:

CRUD on customer

CRUD on order

Coffee- GET

CoffeeOrder- GET

Stretch Goals (to be completed if time allows, or after graduation):

In the future I think it would be good to add the following:

-a way for collecting money

-an option for subscribing beyond the weekly subscription (i.e. a way to choose to subscribe for delivery every 2, 4, or 6 weeks).

Probably added through a Subscription Table (On/Off; Boolean) with Duration (enum 2-4-6)

Packages:

com.promineotech.coffee

CoffeeApplication

com.promineotech.coffee.controller

Customer

DefaultCustomer

Order

DefaultOrder

CoffeeOrder

DefaultCoffeeController

Coffee

DefaultCoffee

com.promineotech.coffee.dao

Customer

DefaultCustomer

Order

DefaultOrder

CoffeeOrder

DefaultCoffeeController

com.promineotech.coffee.entity

Coffee

CoffeeFlavor

CoffeeGrind

CoffeeSize

Customer

Order

CoffeeOrder

com.promineotech.coffee.errorhandler

GlobalErrorHandler

com.promineotech.coffee.service

Customer

DefaultCustomer

Order

DefaultOrder

CoffeeOrder

DefaultCoffeeController

Final Requirements:

Project Requirements:

- Database design which contains at least 3 entities and 3 tables
- Contains all CRUD operations (Create, Read, Update & Delete)
- **Each entity** should have **CRUD operations** with one entity having all 4 CRUD operations (Create, Read, Update & Delete).
- Contains at least 1 one-to-many relationship
- Contains at least 1 many-to-many relationship with one or more CRUD operations on this relationship
- **Required**: **REST Web API Server** tested through Swagger, Postman or AdvancedRestClient (ARC) or a front-end client.