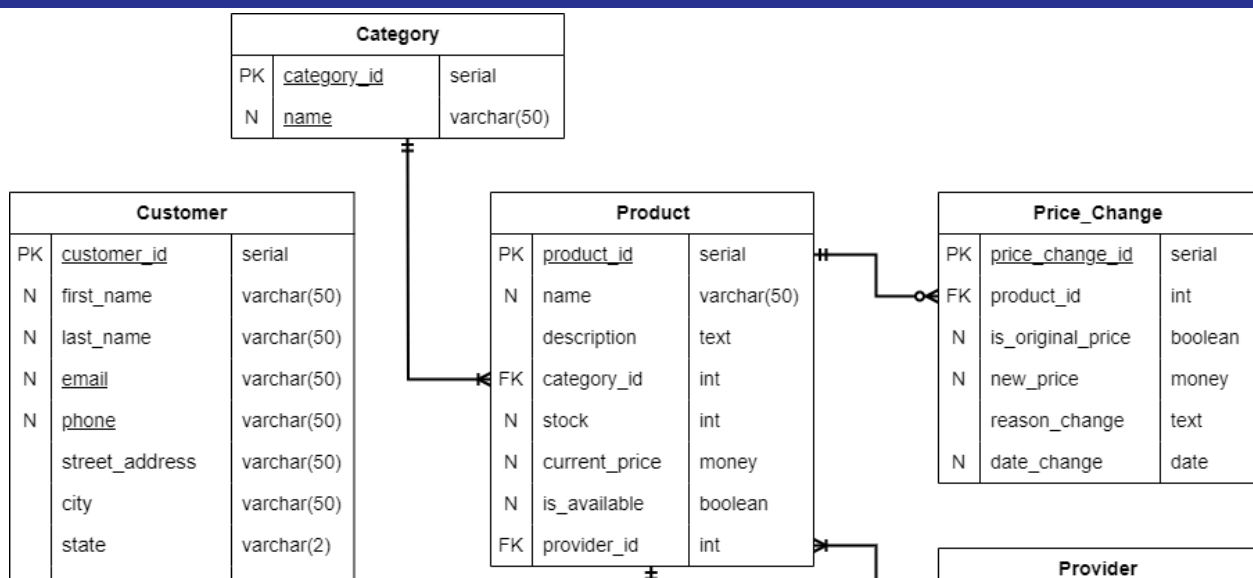# Online Store

By: Ashton Hoeft & Noah Huesman

Project Requirements:

I.   **Overview**

Our topic is the online store idea presented in the project ideas document. This application will allow you to create, edit, and delete customers, products, and other information in the database. The primary feature will be the ability to create orders for customers in the database. These orders will consist of the products found in the database. Our application will simulate what a simple online store would look like.

II. **Database Design**

Category

PK	category_id	serial
N	name	varchar(50)

Customer

PK	customer_id	serial
N	first_name	varchar(50)
N	last_name	varchar(50)
N	email	varchar(50)
N	phone	varchar(50)
	street_address	varchar(50)
	city	varchar(50)
	state	varchar(2)

Product

PK	product_id	serial
N	name	varchar(50)
	description	text
FK	category_id	int
N	stock	int
N	current_price	money
N	is_available	boolean
FK	provider_id	int

Price_Change

PK	price_change_id	serial
FK	product_id	int
N	is_original_price	boolean
N	new_price	money
	reason_change	text
N	date_change	date

Provider

III. **Functionalities:**

- Create, edit, delete, view customers forms
- Create, edit, delete, view products forms
- Create, edit, delete, view categories forms
- Create, edit delete, view providers forms
- Price change form
- Home page
- View orders form
- Edit orders form
- Create orders form
- Delete orders form
- Ability to filter products
- Create database
- Be able to see list of orders when viewing a customer
- List most popular product sold at store
- Show most expensive product
- Be able to see total price of order and price of individual products
- Ability to mark product as unavailable or available
- Ensure that data is comprehensive and understandable to the viewer

IV. **Classes:**

- Home
  - Responsible for navigation to the other three classes/forms
- Administration
  - Responsible for the CRUD functionality for Customers, Providers, and Categories
- Products
  - Responsible for the CRUD functionality for Products. Also has the price change functionality for products along with displaying the most expensive product and most popular products, and filtering functionality.
- Orders
  - Responsible for the CRUD functionality for Orders.
- Query

        ○ Has the method for sending queries to the database.

V. Responsibilities:

Both:

- Design database
- Create requirements document
- Home page
- Create database

Noah:

- Create, edit, delete, view products forms
- Create, edit, delete, view categories forms
- Price change form
- Ability to filter products
- Ability to mark product as unavailable or available
- Show most expensive product
- List most popular product sold at store

Ashton:

- Create, edit, delete, view customers forms
- Create, edit delete, view providers forms
- View orders form
- Edit orders form
- Create orders form
- Delete orders form
- Be able to see list of orders when viewing a customer
- Be able to see total price of order and price of individual products