

# Online Shop

We will develop an Online Cafe Ordering System using Python Flask and SQLite for the backend, and C# Windows Forms for the frontend. The system will allow customers to browse products, place orders, and view their order history.

## **Basic Features for customers:**

- Customers can create an account and log in to the system.
- Customers can browse products by category and view details of each product.
- Customers can add products to their shopping cart and checkout.
- Customers can view their order history and order status.

## **Basic Features for Admin:**

- Login
- Customers CRUD
- Products CRUD
- Categories CRUD
- Orders CRUD

## Tables:

- Customers:

Column Name	Data Type	Constraints
customer_id	int	PRIMARY KEY
first_name	varchar(50)	NOT NULL
last_name	varchar(50)	NOT NULL
email	varchar(100)	NOT NULL
phone_number	varchar(20)	
address	varchar(200)	
city	varchar(50)	
state	varchar(50)	
postal_code	varchar(20)	

- Products:

Column Name	Data Type	Constraints
product_id	int	PRIMARY KEY
product_name	varchar(50)	NOT NULL
description	text	
price	decimal(10,2)	NOT NULL
image	varchar(200)	NOT NULL
category_id	int	NOT NULL

- Orders:

Column Name	Data Type	Constraints
order_id	int	PRIMARY KEY
customer_id	int	NOT NULL
order_date	datetime	NOT NULL
total_amount	decimal(10,2)	NOT NULL
payment_type	varchar(20)	NOT NULL
status	varchar(20)	NOT NULL

- Order details:

Column Name	Data Type	Constraints
order_id	int	FOREIGN KEY
product_id	int	NOT NULL
quantity	int	NOT NULL
item_notes	varchar(200)	
item_price	decimal(10,2)	NOT NULL
item_discount	decimal(10,2)	NOT NULL
item_total	decimal(10,2)	NOT NULL
item_status	varchar(20)	NOT NULL

- Categories:

Column Name	Data Type	Constraints
category_id	int	PRIMARY KEY
category_name	varchar(50)	NOT NULL
category_description	text	
category_image	varchar(200)	NOT NULL