

## Author

**Name:** BARATH VIRUPRIYA

**Roll Number:** 22F2000800

**Email ID:** [22f2000800@ds.study.iitm.ac.in](mailto:22f2000800@ds.study.iitm.ac.in)

**About Me:** I am passionate about programming. Though I was sick for the past 2 weeks, I managed to write the code without any help because of my passion towards coding.

## Description

- 1) A Grocery Store Web Application has to be developed with two different roles – Inventory Manager Role and User Role.
- 2) The Inventory Manager should be able to add new categories, new products, edit categories and products.
- 3) The User should be able to Register, Login and add products to a shopping cart. No payment gateway integration is required.

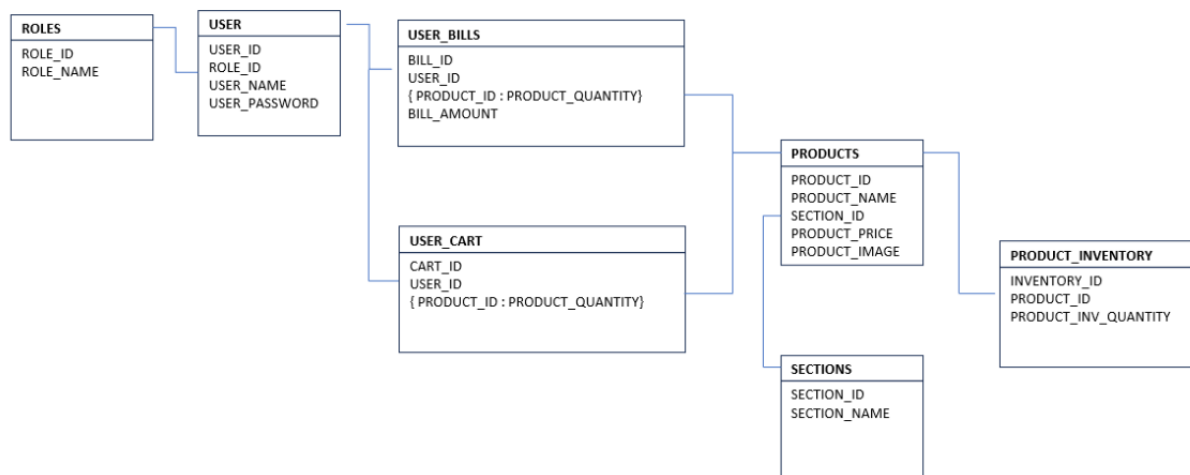
## Technologies used.

**Flask** – For UI and Backend,

**SQLite3** – for DBMS,

**Jinja2** – Dynamic Front-end rendering

## DB Schema Design



The main reason behind the above DB Schema is to make the application scalable.

## API Design

I have created multiple apis for each of the following page in the given application. Please check the yaml file for more information.

## Architecture and Features

The project is organized in the following way:

- a) The main application (app.py) and database are placed on the top folder.
- b) The templates are placed in templates folder.
- c) The controller resides in the main application which would redirect based on various conditions.
- d) The database related files are also present in the top folder.
- e) The database initialization is present in the database.py file.
- f) Schema.sql – creates the necessary tables and database.py initialises the DB.

## Video

<<Link to your online video of not more than 3 minutes length>>