IITM Online BSc Degree

Mad-1 Project Report

Author

Name: Adarsh kumar Gupta
Roll No: 21f1000414
Student email: 21F1000414
Project Title: Grocery Store

I am Adarsh Kumar Gupta. I graduated in Chemical Engineering from NIT Tiruchirappalli . I amNative of Kanpur, Uttar Pradesh. I am interested in fields like Artificial Intelligence, MAchine Learning and BlockChain Technology. In this project, I had made an online grocery store App using the Flask framework.

Description

The grocery app is designed for multiple users and serves as a platform for buying and selling groceries. Users have the flexibility to purchase various products across different sections. Additionally, the store manager has the authority to add new sections, categories, and products to the app.

Technologies used

- Flask:web framework for grocery store application
- Flask-SQLAlchemy- Object Relation Mapping Directory
- Python(Pandas,Numpy,os): Data Processing
- HTML/CSS: Structuring and styling the web page
- JINJA2: Build in template engine for rendering templates
- BOOTSTRAP:Front End Framework
- Javascript:Interactive Website building

DB Schema Design

DataBase Description:
Admin: It stores admin credentials which include Admin Username and Password.
Users: this database holds login information of users with username, email, contact no and password respective.
Products: It has all products added by the admin of grocery store which have product name, category of product, units(Kg, Litre,gram,dozen etc),rate of product for selling and available quantity in store respectively.
UserOrders: I User wish to purchase any things, this holds products information chosen by user include: UserId, category of product,product name,product price,volume order,unit(Kg, Litre,gram,dozen etc) and total amount (in Rupees) to pay by user respectively.

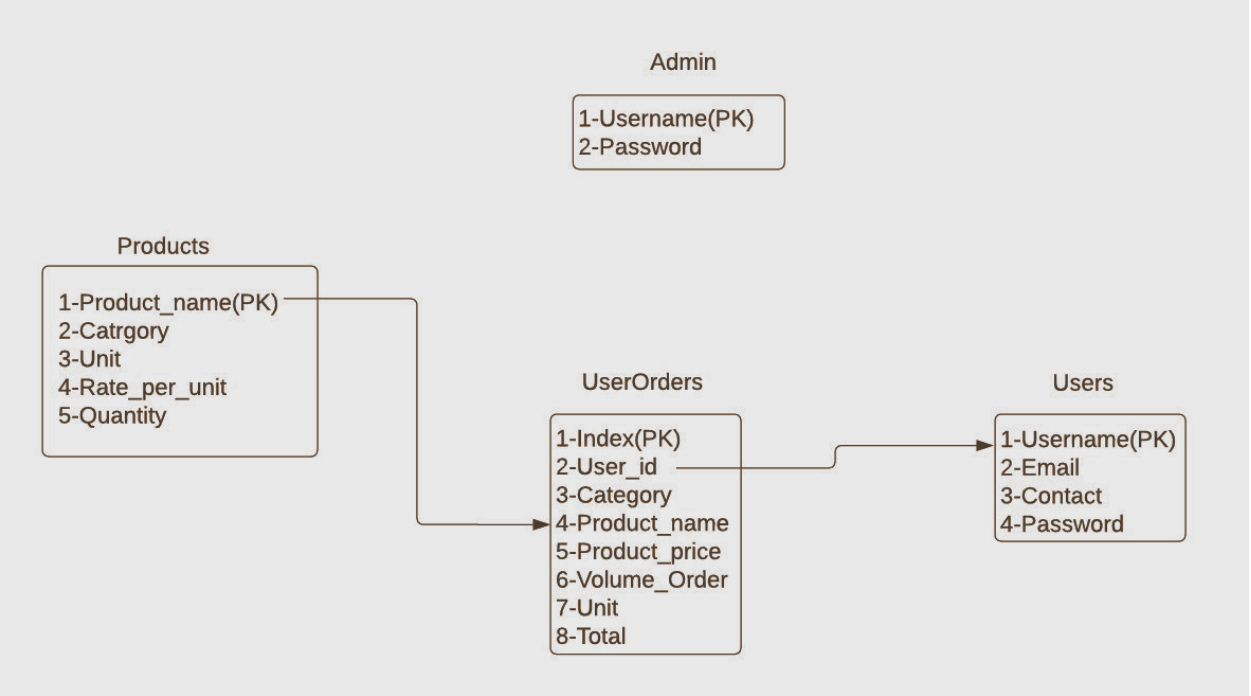

Figure: DataBase Schema for App: Online Grocery Store, Where Pk:Primary Key

Architecture and Features

- Application: It contains applications files :
  1. Config.py:Configuration File
  2. Controller.py: It has all App Controllers code.
  3. DataBase.py: It support code or DataBase Management using SQLAlchemy
  4. Models.py: It contains all models which help to run current application.
- Static: It Contains all default Static files i.e. images etc
- DB: It contains sqlite DB
- templates:Default flask template folder
- App.py: Python file to run our application
- Requirement.txt: It contains all required libraries and other dependencies for our application.

Steps to run our application:
1- Create a virtual environment i.e. venv
2- $ python -m venv // activate virtual environment
3- $ python3 app.py // Run Flask application as local development at http://127.0.0.1:8080

Video

Click for video: Presentation Video