Author

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I'm undergraduate student who is currently enrolled in the diploma part of the programme and doing it as a standalone degree. I belong to Lucknow, UP and would like to express my gratitude from providing me the opportunity to study under your belt and I would like to separately thanks for the initiatives as this project and others to come. This degree is already proving to be meaningful and worthy, all due to such industrious projects.

Description

My Grocery Store project is made using flask website. It has all the core features like manager login, user registration and login, and purchasing a product of a given category and also adding the same to the cart. I have also used to graph to enhance my project i.e. is grocery store website and also used search functionality.

Technologies used

flash==1.0.3

Flask==2.3.2

Flask-SQLAlchemy==3.0.3

Jinja2==3.1.2

matplotlib==3.7.2

SQLAlchemy==2.0.7

Architecture and Features:

Haven't used API.

The app routes (i.e.controllers) are all located in app.py and so are the database schemas

The app and database configuration (in app.py)

Templates are in "templates" folder

All media (mainly) photos are in static folder

DB Schema Design

1.Category, 2.Product, 3.User, 4.Cart, 5.Bookings

```
class Category(db.Model):
    category_id=db.Column(db.Integer, primary_key=True, autoincrement=True)
    category_name=db.Column(db.String(50), nullable=False, unique=True)
    products=db.relationship('Product',backref='category')

class Product(db.Model):
    product_id=db.Column(db.Integer, primary_key=True, autoincrement=True)
    product_name=db.Column(db.String(50), nullable=False, unique=True)
    product_unit=db.Column(db.String(50), nullable=False)
    product_rate=db.Column(db.Integer, nullable=False)
    product_quantity=db.Column(db.Float, nullable=False)
    category_id=db.Column(db.Integer, db.ForeignKey("category.category_id"),nullable=False)
```

```
class User(db.Model):
    user_id=db.Column(db.Integer, primary_key=True, autoincrement=True)
    username=db.Column(db.String(50), nullable=False, unique=True)
    password=db.Column(db.String(100), nullable=False)
    bookings=db.relationship('Bookings',backref='user')
    cart=db.relationship('Cart',backref='user')

class Bookings(db.Model):
    id=db.Column(db.Integer,primary_key=True,autoincrement=True)
    name=db.Column(db.String,nullable=False)
    Quantity=db.Column(db.Float)
    Total=db.Column(db.Float)
    user_id=db.Column(db.Integer,db.ForeignKey('user.user_id'),nullable=False)

class Cart(db.Model):
    id=db.Column(db.Integer,primary_key=True,autoincrement=True)
    name=db.Column(db.String,nullable=False)
    Quantity=db.Column(db.Float)
    Total=db.Column(db.Float)
    user_id=db.Column(db.Integer,db.ForeignKey('user.user_id'),nullable=False)
```

API Design

To my dismay, I couldn't manage to use any API.

Video

https://drive.google.com/file/d/1PBOSqEmejwmz7CvkxSWvOR4R1xDQOEgD/view?usp=drive_link