Author

SAJAL GARG

21f1000632

21f1000632@ds.study.iitm.ac.in

I am currently enrolled in the Diploma Program of BS Online Degree at IIT Madras.

Description

Groceries store project is all about building an application for to buying groceries where admin can create categories and products for users.
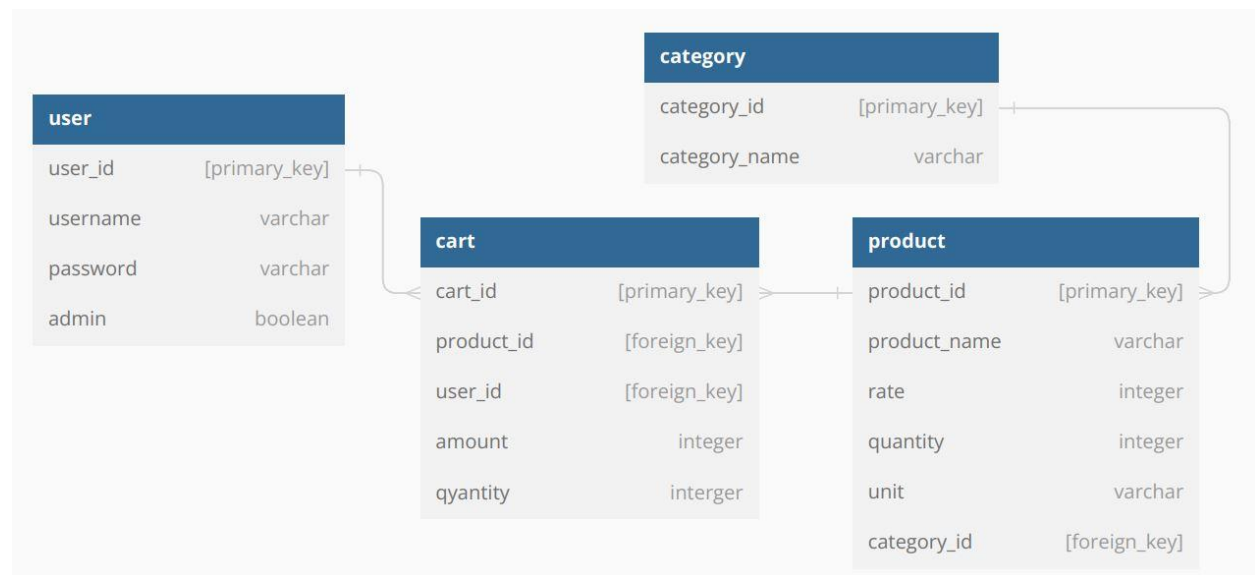
Technologies used

S.No.	Technology Used	Description/Purpose
1.	**Python flask** (Jinja2: render_template, url_for, redirect, flash)	Flask: used to create web application render_template: To render HTML files for generating outputs on webpage url_for: Generates the dynamic URL for any defined function redirect: To redirect to the path found by url_for flash: To flash warning, alert messages or any other notification
2.	**HTML FORM**	Used to create forms such as login form, registration form and also validate the POST request.
3.	**Flask SQL Alchemy**	Connects application to database
4.	**Bootstrap**	Used for aesthetics for the front end.
5.	**HTML / CSS**	To design and structure the front-end of the application.
6.	**Flask SQL Alchemy**	Connects application to database
7.	**werkzeug**	Used to throw exception

Video:

https://drive.google.com/file/d/12DDbndWJfw093tghoCBT8fRTI3NekYcF/view?usp=drive_link

DB Schema Design

Reasons for designing above schema: -

● Admin can perform actions (update, delete, move, etc.) on categories and product.

● Users can book multiple products.

● Category can have multiple products.

● products can have quantity, units, price, etc.

● Cart shows the details of the product bought by the user

API Design

● CRUD API for Category (Create, Update, Read and Delete)

● CRUD API for Product (Create, Update, Read and Delete)

● CRUD API for Summary (Read)

● CRUD API for Cart (Read)

Architecture and Features

All controllers are in the main.py file, all templates are in the template folder and all CSS files used for the purpose of styling are in the Static folder. The groceries store application has a separate dashboard for every user and for admin. Admin can create, edit and delete shows as well as venue. Admin can see performance of show in summary page. A user can buy products according his preference and search for shows. The user can see his or her bought products in cart.