DB Project Report

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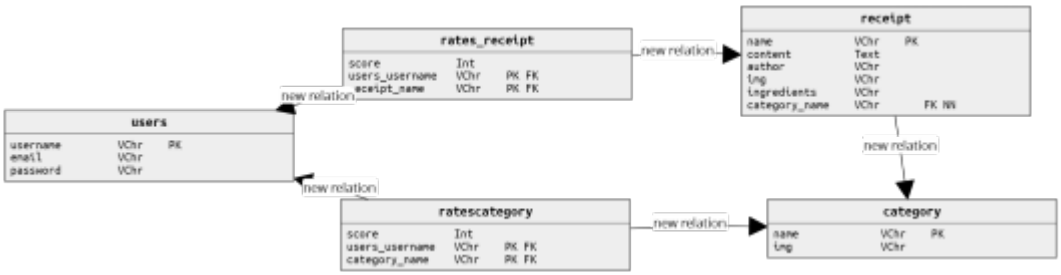
1 Introduction

This paper is a report on my project for the Database course, where I created a website with cooking recipes using Python, Django, and PostgreSQL.

2 ER Diagram



3 Django Admin and User Management System

I aimed to provide functionality for adding new categories and recipes. Adding recipes is allowed for logged-in users, and adding new categories is restricted to admin accounts. I'm using Django admin, which is a fantastic tool providing CRUD* functionality for all models!
To add a new admin, follow these instructions: https://www.w3schools.com/django/django$_{a}dmin_{c}reate_{u}ser.ph$

3.1 User Login and Registration

To implement user functionalities, I followed this tutorial: https://learndjango.com/tutorials/django-login-and-logout-tutorial

3.2 Accessibility

Once the user system is set up, it becomes straightforward to manage website accessibility. I'm using django.contrib.auth. For example, if I want to make

adding new recipes accessible only for logged-in users, all I need to do is add the "@login_required" decorator before the function.

4 New Functionalities

I have decided to enhance the project beyond the example with guitars. This includes:

- Searching by name
- Rating recipes and categories, displaying average ratings,
- showing a sorted ranking of scores
- Selecting and displaying a randomly chosen recipe
- Applying CSS styling

5 Summary

The project demonstrated the efficiency of Django and Python in creating websites. I had some experience doing it with JavaScript, but I enjoyed working with Python more.

5.1 Work Distribution

I completed the project independently.

5.2 Expectations and Evaluation

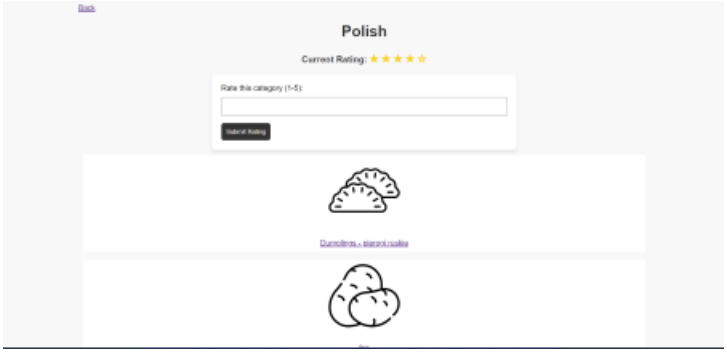
I believe I have provided all the required functionalities, explored database integration, and am satisfied with the final result. Therefore, my expected score is 100%.

5.3 Github repo

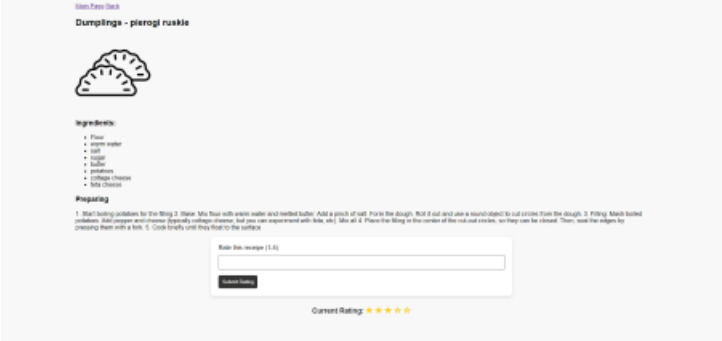
github repo

6 Screenshots from the website

6.1



6.2



6.3