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Project Pt. 3

Basic Design:

For this part of the project. We had to design Cookzilla with a frontend and backend, with SQL queries. For my version, I used Flask and built upon the code that Professor Frankl had put up.

I implemented the following functionalities:

Search for Recipes: Users can search for recipes by RecipeID, a tag, a rating, or a combination of a tag and a rating. A user is not required to be logged in to search for a recipe.

Display Recipe Info: Once a user has selected a recipe they want to see from the ways of searching mentioned above, they will be able to click a button “View Full Recipe” that will take them to a page with all information regarding that recipe. This involves a few tables. Each table is as follows:

1. Recipe Info: The first table shows the RecipeID, the Title, numServings, postedBy, Tag
2. Average Rating: The second table shows the average rating of the recipe. This is based on the average star rating of all reviews given to it. This table is empty if there are no ratings.
3. Ingredients: This table displays all the ingredients of the recipe. It shows the ingredient name, amount, and units.
4. Pictures: If the author of the user has posted any picture with the recipe, they will be shown here.
5. Steps: This table displays the Step Number and Description for each step.
6. Reviews: This table shows all the reviews given to this recipe. The review consists of the review title, description, the poster of the review, and the stars they were given.
7. Review Pictures: This table shows all the pictures posted with reviews.

Login: Users can login and Register to Cookzilla. When registering, the user enters a name and password, along with other information such as first name, last name, email, and an optional profile description. Their password has salt added to it, and then is run through a hash function to encrypt it. This is stored in the table. If a user wishes to login, they enter their username and password. Cookzilla will take their password, add the salt, and then encrypt the password. Then

it verifies if the password is the same as the password stored in the table. If it is, then the user can successfully log in.

Post A Recipe: Users need to be logged in to post a recipe. The user can post the recipe such as the Title, numServings, and the tag. They can also post the ingredients, any picture related to the recipe, and the steps for cooking the recipe.

Extra Functionalities:

The first extra functionality I implemented was posting a review. Users must be logged in to post a review. A user can post a review title, a description, the rating in stars (1-5) that they would like to give the recipe, and optionally upload a picture with the review.

The other functionality I implemented was posting an event for a group that the user belongs to. Any user that belongs to a group can post an event. For this, a user must join a group first. I implemented a way for logged in users to search for existing groups, and join whichever one they would like. Once they enter the group, they will see the group name, the creator of the group, and the group description in one table. In a separate table, they will see all previous and upcoming events. With each event, there is a button that allows users to view any event pictures affiliated with that event.