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Project Group 19

Project title: Cooky Thingy Dingy

Application domain: Curated Recipe Tracker

Database application description:

A curated recipe database that stores on-hand ingredients and recipes. It can display information about ingredients, as well as acceptable substitutions. It can store recipes from an online database. A user will be able to find recipes based on available ingredients and build shopping lists based on what's missing. Recipes can also be tagged and filtered with those tags.

Requirements statement:

- Each user will have a unique userID.
 - They will use an email, and password used for login.
- Each user will have a cupboardID that uniquely identifies their cupboard.
 - Cupboards will store ingredientID's for each ingredient that a user currently has in their cupboard.
- Each ingredient will have an ingredientID, which will be unique to the ingredient.
 - Each ingredient will have an expiration.
 - Ingredients will also have a list of substitutions, substitutes will be assigned an ingredientID when a user imports their own or a recipe via URL.
 - IngredientID's will be in the format of INID0000001 and will increment with each ingredient that is added.
- Each recipe will have a recipeID which will be unique to the user.
 - Each recipe will have a list of ingredients. Some will be listed explicitly as mandatory and others as optional.
 - RecipeID's will be in the format of RID0000001 and will increment with each manually or imported recipe.
 - Each recipe will have a user rating stored, and the amount of times the user has cooked that recipe. It will also store the last time that it was cooked.
 - A recipe contains a step-by-step guide to make the food.
 - Recipes will contain URL links to step-by-step methods in preparing specific ingredients.
 - A recipe can be filtered by rating.
- Each user will have a Shoppingcart, which stores a list of IngredientID's based on the previously added recipes to their cart that aren't already in their cupboard.
- Users will be able to add recipes to the shopping cart, after it already exists in their account. The database will store when the recipe was added, and also store the list of required ingredients not already in their cupboard into their shopping cart.