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Title: Ingredient Tracker

Description:

A web application that allows users to keep a digital pantry of ingredients, create and share recipes and search/filter/sort through recipes based on available ingredients and user metrics.

Actors: User, Admin

Functionality:

- User can sign up
- User, admin can log in
- User can select an ingredient from a list of canonical ingredients to add to digital pantry
- User can add an ingredient by name, regardless of whether it is a canonical ingredient
- User can attach an amount in various units (oz, cup, tbsp, ect...) to ingredients in pantry
- User can adjust amounts of ingredients in pantry
- User can remove ingredients from pantry
- User can rate recipes
- User can save a recipe to favorites
- Users can comment on recipes
- User can mark recipe as made
- User can choose to auto adjust ingredient amounts down by the amount used in recipe
- User can view list of all recipes
- User can filter list of recipes by whether they only use ingredients in user's pantry, canonical/custom status, favorites
- User can search for recipes by name, tags
- User can sort recipes by popularity, rating, and number of ingredients not in pantry needed
- User can generate a "shopping list" of ingredients in a recipe not in pantry

- User can define substitutions, allowing some ingredient to count as any other chosen ingredient when filtering or sorting recipes
- User can blacklist chosen ingredients, hiding recipes that include it from search and sort
- User can view history of made recipes
- Admin can add an ingredient to canonical ingredients
- User can save and edit custom recipes by specifying a number of ingredients with amounts and adding text instructions and descriptive tags
- Admin can create and edit canonical recipes by specifying a number of ingredients with amounts and adding text instructions and descriptive tags
- Admin can promote a user custom recipe to canonical status
- Admin can create a list of popular recipes of the month and push to the user

Stretch Functionality:
- Track cooking devices owned and needed
- Build substitutions into recipes
- Give admin moderation tools to remove custom recipes from search, blacklist certain users from populating search
- Add advertisements on the webpage