

Cooking Calendar: Tim Magargee

Project description

Overview

The project is a meal-planning web application that is easily customizable and aimed at simplifying daily dinner decisions. The basic workflow involves users uploading their own recipes and choosing a certain “category” of food for each day of the week. Then the application would create a meal plan that has variety, is easy to edit, and guarantees that the user will like the recipes.

Goals

My web application will solve the following three common problems

First, this app will answer the daily question “what will I have for dinner today”. Users can use the app to motivate themselves to cook more often because they will not have to decide what to cook.

Secondly, the application would act as an online recipe book that will be grouped into categories. Many adults will either use multiple cookbooks or websites to keep track of recipes and creating a space to centralize recipes will ensure its users will never lose a recipe.

Lastly, busy adults do not like to go grocery shopping multiple times per week if it can be avoided. The app would plan at least a weeks worth of meals ahead so that users will know all the ingredients they need going into the week.

Personas

The app will target 2 user groups, young adults getting used to cooking on their own, and older parents with children.

Young adults generally are comfortable with technology and are starting to build their meal repertoire. The app will be aimed at allowing young adults to slowly add more recipes over time and learn what they like.

Older parents with kids will need the ability to easily input recipes quickly because they will already have a larger amount of recipes built up. Kids tend to annoy parents by asking what they are having for dinner and this app will make it easier for parents to give their kids an answer.

User Interaction

Workflow

Users would be easily able to add full recipes to the website database. Then they would choose categories of foods to have on each day of the week. The application would generate a plan for meals as far into the future as the user would like. After a plan is generated users could look at an upcoming shopping list automatically made by upcoming meals. Meals could be easily changed manually by the user and the shopping list can be added easily so that users can put everything they need into one place.

How users solve problems

The ability to add and edit recipes on the site will let young adults build up an online recipe book. Older adults will need to put in the time to add recipes at the beginning, but after that, the application can be used to generate a long-term plan that makes meal decisions for them. Both younger and older adults will especially appreciate the shopping list feature to ensure they know everything they will need to get for meals.

MVP Description

Overview

The user interface needs to have a consistent and organized look in order for the user to understand what they need to do and how to do it. After the user logs in for the first time, there will need clear instructions on what to do next. Recipes should be the main focus of the app and therefore that page needs to allow users to easily update recipes and have features that make it worthwhile to input recipes to the site.

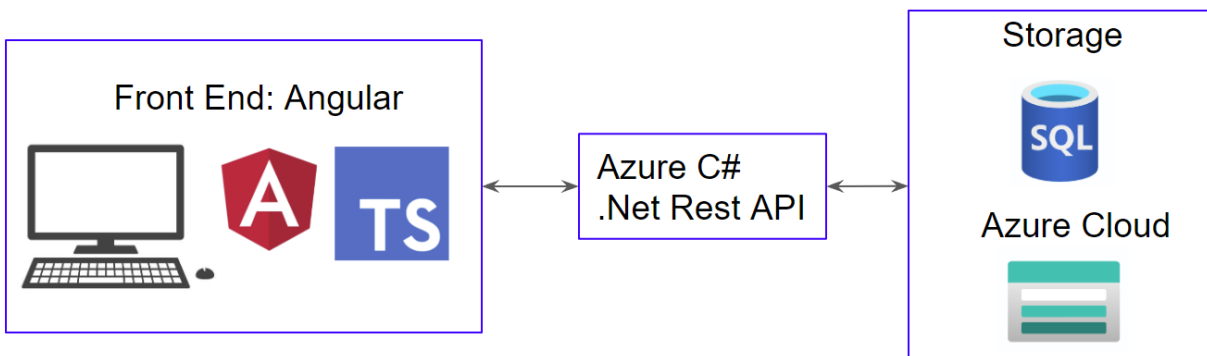
The next most important feature is having a clear way of showing upcoming meals and a way to determine those meals. From the onset, the application will need to explain how to assign a category of recipes for the application to choose and how to tag recipes to fit into categories. This will let the application do more work for the user and adds both consistency and variety in the meals the app can choose.

Lastly generating a shopping list to buy for upcoming meals will make the application shine. This feature will save the user time as long as it is easy to understand and modify. To make it more user friendly the shopping list should allow items to be added and marked as complete.

Minimal Feature List

- An account with email and password login
- Add/edit recipes
 - Ingredient and measurement lists
 - Ability to tag recipes
- Search for recipe and filter by
 - Name
 - Tag
 - Ingredient
- Choose meal categories for days
 - Separate by tag
 - Separate by recipe
 - Easily updatable
- View upcoming meals
 - Generated based on categories
 - Can be manually assigned by the user
- View the shopping list for upcoming meals

Architecture Diagram



Data Description SQL

All ids are auto-generated integers

- Users
 - Id
 - Email: string
 - Password: string
 - DefaultMeasurementStandard: boolean
 - IsDarkMode: boolean

- Recipes
 - Id
 - UserId
 - Name: string
 - Description: string
 - ServingSize: Int
- RecipeIngredients
 - Id
 - RecipeId
 - IngredientsId
 - MeasurementId
 - WholeNumber: int
 - Numerator: int
 - Denominator: int
- Tags
 - Id
 - UserId
 - Name: string
- RecipeTags
 - RecipeId
 - TagId
- Steps
 - Id
 - Text: string
- RecipeSteps
 - Id
 - RecipeId
 - StepId
 - Order
- StepIngredients
 - Id
 - StepId
 - IngredientId
 - AmountNumerator: float
 - AmountDenominator: int
- Categories
 - Id
 - UserId
 - Name: string
 - TagId
 - IngredientId
- Calendar
 - Id
 - UserId

- LastGenerated: DateTime
 - isMonthDefaultView: boolean
- CalendarMeal
 - Id
 - UserId
 - Date: Date
 - Recipeld
 - IsUserAssigned: boolean
- ShoppingList
 - Id
 - UserId
 - StartDate: Date
 - EndDate: Date
 - CreatedOn: DateTime
- ShoppingListGeneratedItem
 - Id
 - ShoppingListId
 - IngredientId
 - Amount: Float
 - MeasurementId
 - IsChecked: boolean
- ShoppingListEnteredItem
 - Id
 - ShoppingListId
 - Category: int
 - IsChecked: boolean

LookupTables

- Measurements
 - Id
 - Name: string
 - IsStandard: boolean
- Ingredients
 - Id
 - Name: string
 - DefaultMeasurementId?
 - isMeat: boolean
 - isDairy: boolean
 - isGluten: boolean