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Assignment 2: Project Idea Proposal
Restaurant Application

Summary:

The proposed restaurant application would serve as a hub for users who are interested in choosing a place to eat, especially if they are having a tough time deciding where to go. This application would allow users to save favorite restaurants into customizable lists. A single restaurant that is within a user's list will be chosen at random and displayed after a button click. The user will have the ability to click a deny button to request a newly generated random restaurant or click an accept button to confirm that this is the restaurant of their choice. Once a restaurant is chosen, it will be removed from their list of restaurants for the week. Additional features will display a history of restaurants the user has visited, the frequency of visitation, and an optional meal history. The user may flag special weekly offers that restaurants have, which may influence their decision on where to eat.

Problem to solve:

This application solves the problem that many people may have experienced, which is deciding on which restaurant they should go to for their next meal. The randomization feature, the user's restaurant history, frequency, meal history, list of specials, and customizable lists will help the user to better decide on where they would like to eat more efficiently.

Major Features:

- Displays a randomized restaurant until one is chosen
 - Deny and accept buttons for selection
- Special deals of the day will be displayed as a reminder to the user
- Restaurant history, frequency, and meal history
- Customizable lists to add favorite restaurants to choose from
 - Users can browse nearby restaurants to add to their list
- Three buttons at the bottom that take the user to the different webpages
 - Left - restaurant history, frequency, and meal log
 - Middle - homepage to display specials and randomized restaurant
 - Right - customizable list and browse nearby restaurants

Languages and Tools:

- TypeScript (JavaScript, HTML, and CSS) to display as a web application
- Firebase to host the website, database, and authentication
- Google Places API to display nearby restaurants

Audience:

The users who would be interested in using this application would be any person having trouble deciding on where to eat. Target customers would be adults that have the means to buy a meal, whether it is dine in, take out, or delivery.