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CMPT220

Project Proposal

For my project, I plan on developing an application. The application will be a college-budget oriented recipe app that prompts the user to input their budget (in USD) and then randomly generates a list of ingredients, recipes or both for the user to consider. To approach making this app, I will have to research different types of foods and ingredients to make sure that the user has enough variety and spontaneousness to keep using the app and deem it worthwhile. Speaking in technical terms, the numeric value of their input budget will be compared to the prices/values I assign to the recipes (which will have different variables), and will be assigned to a range of values, i.e. Recipe1, Recipe2 and Recipe3 will show if the users budget falls from $1-$10, Recipe4, Recipe5 and Recipe6 will show if the users budget falls from $11-$20, and will list easy steps that they follow in order to create their meals. I plan on presenting at least three recipes for each range, the maximum dollar amount being ~$100 (using over $100 for one meal shouldn't be considered very 'college' in my opinion), with the user being able to choose which one out of the three they want to view, with the ability to go back to the pre-made list and look at the others after they browsed their first choice.

In regards to ingredients, the user will have the ability to choose if they just want to be presented with a list of budget-based ingredients instead of recipes (a feature I hope to include in the application itself, possibly in the form of a question). I will limit the amount of ingredients to basic things like eggs, milk, chicken, etc., in order to make sure that the app doesn't get too complicated or confuses the user. The ingredients most likely will fall into general categories, i.e. things like spinach and lettuce will be represented by variable saladGreens, in order to neatly present the potential options users can afford without getting overly specific.

Other potential additional add-ons to the application could be health measurements like calories per recipe and vegetarian choices. The calories would be presented in the recipe itself, while things like the possibility of only vegetarian options would be presented during the beginning set of questions. But, in the recipes (3) I choose for the original budget ranges, I will try my best to do a regular recipe with no strict dietary specifications, a vegetarian option and a healthier option with vegan substitutes. Also, the recipes, if time permits, will have a substitutes option probably on the bottom, where things like meat and dairy products will be swapped for other possible alternatives (via suggestive sentences, like "Instead of chicken, try tofu for this recipe!").