CS380 - Phase I: Project Proposal

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Group Name: CWU Dining Services

                              SOUS

It’s happened to the best of us. Your belly is rumbling, but you’re unsure what to make for dinner. You search for recipes, but nothing sounds good. When you finally come across something only to find it calls for some obscure ingredient that you can’t find. SOUS has you covered. SOUS takes inventory of the ingredients you have lying around the pantry and then searches for recipes based on those ingredients.   
SOUS is geared towards the lifestyle of a college student. With so many obligations on the modern student’s plate, eating well and in a timely manner is imperative to success. Meal planning is a difficult task for many students and SOUS attempts to alleviate the stress and time needed to eat well.

SOUS is an Android application that queries recipe websites and offers users suggestions for recipes. SOUS will be based upon a predefined database of ingredients users have lying around the house. The application should take the time of day into account, and suggest limiting recipes to meals appropriate for that time (ie; not suggesting pancakes and eggs for dinner). The application should also take dietary restrictions into account (ie; allergies, keto, vegan/vegetarian, etc). Should a user select a recipe, SOUS will suggest deducting those ingredients automatically. The database should allow a user to manually add or remove ingredients at any time. The application should automatically handle unit conversions; for instance, if a user specifies, they have ⅓ tablespoon and 1 tsp should be considered equivalent as far as recipes are concerned. The application should maintain a history of recipes the user has made and recommend those first. Following that, the application should suggest recipes that have a similar flavor profile to the ones a user has cooked before.

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