CS 410 Project Proposal

Team Name: Team Mountaineer

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I will be creating an intelligent browsing project, which is a browser extension that allows users to save recipe blogs and then query for a list of recipes based on what ingredients they have. This project is a way to browse intelligently to save sites for future use and have a basic search engine and use a ranking algorithm, the idea is very similar to the browser extension we used in this class for MP2. My plan for this project is to have a database to store the links and the ingredients, which are added via the chrome extension, and then have another option on the extension with fields for ingredients where you can then query for the top results for recipe links that you already have most or all of the ingredients for. For my algorithm I plan on just ranking based on which recipes have the most shared ingredients with the query. I plan on creating small tests with queries for a short list of ingredients and testing the rankings of saved websites with only the same ingredients, one recipe with the same ingredients but a couple extra, one missing a couple ingredients, and one sharing no ingredients from the query.

I plan on using javascript to create a chrome browser extension and I think it will be around 20 hours of work for me to figure out how to host the database and the browser extension, figuring out how to get the extension working with chrome, adding the code to save the links with the ingredients being saved automatically if I have time, manually if it take too long, and then writing the algorithm to take the query of ingredient words and returning and ranking results.