



**Michigan
Technological
University**

College of Computing

Computer Science Department

CS3141 Team Software Project

Spring 2022

Team Software Project proposal

Section: R01

Team #: 3

Roll#	Student name	position
15	Mark Halonen	Scrum master
13	Abbie Ginman	Developer
14	Finley Green	Developer
11	Bobby Galbraith	Developer
12	Mary Galbraith	Developer

Project name/title: Healthy Recipe Generator from Common Kitchen Ingredients

Instructor name: Serein AL-Ratrout

Project introduction and description:

The purpose of this project is to provide healthy recipes to users who input ingredients they have in their kitchen. It will be created as a website and will feature various input buttons for the user to choose ingredients from. The motivation behind this project includes users who want to have the ability to create various healthy meals from food they already have in their house.

Problem statement

People have ingredients but have trouble coming up with healthy meals to prepare. This is a problem because instead of cooking healthy and nutritious meals with the food people already own, frozen meals, snacks, and takeout are eaten and groceries will be wasted.

Individuals may have trouble using google to find exactly the recipes they want to see with the ingredients they have. This is a problem because there are many healthy recipes on google not being utilized by users wanting to use them.

Another problem is existing websites that attempt to tackle this issue often provide an overwhelming amount of results and the health of the meal is unknown. The impact on users is eventual long-term health problems and an unhealthy lifestyle.

Proposed solution:

Our problems will be solved with our project, because the website will automatically create formatted google search statements to find exactly what the user is looking for and present the top 10 recipes that match the criteria the user gives. Ingredients can be selected and then an algorithm will find healthy recipes with common ingredients that could be prepared.

Tools:

Website Editor

Food Database

Github

An IDE (like VS Code)

Constraints and challenges:

1. Lack of technical skills with creating a website
2. Lack of time
3. Lack of infrastructure

Our main issue this semester will be a lack of time. Due to other classes and obligations, dedicating time to create this website will be difficult. Another issue will be a lack of

technical skills. Although we all have programming skills and computer knowledge, none of us have created a website or have much experience creating and managing databases.

The expertise of the Team Members

Although none of us have created a website before, all of us are interested in learning HTML or other new skills and creating a project from start to finish.

References

Below is a link to the market's current recipe generator, it produces an overwhelming amount of results and the health of the recipe is not a concern. It was not referenced within the document, but rather provided an example of good and bad ideas.

<https://www.supercook.com/#/desktop>