

CIS 560 Project Proposal

Project Summary:

The fitness industry has been growing rapidly over the last decade. People are more conscious on making healthy life choices. We have set out to create an easy-to-use meal prep solution. Containing a database of food containing various information of the foods; macronutrients, food types, calorie content, etc. Additionally, there will be report queries that will enhance user experience by displaying options that better fit their needs and fitness goals.

Technical Details:

We will be using *Azure Data Studios* for the SQL base of the project. For the User Interface we will be using *Visual Studio for C#*. We will also *Draw.io* for implementing the database design.

Data Instructions:

The current Data Instructions that we would like to implement is *SELECT* and *INSERT* with possibilities of *UPDATE* and *DELETE* (as the implementation of the project goes on).

Report Queries:

We propose to have several queries of different food set that would benefit the user by condensing their options. Along with general queries, we would like to implement report queries that would return:

- *Calorie Dense food (useful for bulking)*
- *Calorie light food (for losing weight)*
- *High protein foods*
- *Carb food options*
- *Gluten free options*
- *Vegetable food options*

Dataset we are using:

<https://fdc.nal.usda.gov/download-datasets.html>

Database design will be provided alongside this document!

