Ultimate Optimizer: User Manual

John Viscel M. Sangkal

**Installation:**

All you need is a browser (preferably Chrome, Firefox, or Safari) to run the application. Open the index.html to go to the home page.



**Ultimate Optimizer:**

Select the Ultimate Optimizer link to go to the page.



In the Ultimate Optimizer page, you have an option if you want to minimize or maximize. You can also add and remove constraints. The program will only work with the correct form of input.

Objective Function:

variable = coefficient\*variable1 +/- coefficient\*variable2 +/- …

Constraint:

coefficient\*variable1 +/- coefficient\*variable2 +/- … <=/>= constant



Assuming that the input is correct. The program will work correctly.



**Diet Problem Solver:**

Select the Diet Problem Solver link from the Home Page or from the Navigation Bar.



Click a food to add to your diet. Click it again to remove it. The user has an option to select all or reset all input.



Once the user has decided for the foods he/she wants to include in his diet. Click Solve to solve for the serving of foods to meet the nutritional constraints and minimize cost.

