

Criterion A: Planning

Defining the Problem

Client Gary is a close family friend. His family loves cooking, and his grandmother develops recipes that he sends to him and to our family regularly.

At a family party, I had a conversation with Gary about cooking and making recipes. After talking for a bit, I suggested the idea of a computer program to help with the hassle of writing down recipes. Paper recipes are cumbersome to carry around in the kitchen, and it takes a lot of time to write up a specific recipe and print it out, especially when the recipe is already online. He also had a lot of recipes from relatives that he would like to have saved, and he was worried it wouldn't be reliable to keep looking in a big book of recipes, especially as time goes on. It would also be handy if the program could do calculations to scale recipes and sort recipes by certain criterias, like ingredients in a recipe. While he agreed there were already some software available that did similar things, he wanted something really simple that he could keep on one computer and that everyone, including his grandmother, could use.

Words: 193

Rationale for Proposed Solution

I believe a Java program will be a good fit for Gary's proposition because it will let me make different GUIs and connect it to several algorithms. With Java, I can make a program that will let me sift through a series of recipes and create an interface that will allow the user to input and edit recipes. Much of the requested features like sorting and searching can also be done through algorithms implemented in Java, and object oriented programming can be effective in instantiating and organizing each recipe. Java can also write and "create" files for saving which will be needed to back up files and for printing recipes, as Gary proposed.

Java is a great candidate for this project because:

- I use Java in school and am familiar with it

- Java programs can be used everywhere provided there is a Java Virtual Machine to run the program
- Graphical interfaces can be implemented in a simple and intuitive way and be tailored to different algorithms and functions
- Object oriented programming will be perfect the idea of many editable recipes
- Java is able to read and write to files

Words: 189

Stating Success Criteria

1. Program will allow user to add recipes to a text file, change/edit recipes, and delete recipes
2. Program will provide a simple, intuitive interface for adults and grandmothers
3. Program will display information messages when data is entered incorrectly to help guide users
4. Recipes will be formatted in a way that is easy to follow
5. Program will allow the user to sort recipes by ingredients
6. Program will allow the user to search for a specific recipe
7. Program will allow the user to scale recipes and ingredient quantities
8. It will be easy to back up recipe files