SDEV230 - C++   
Summer ‘24 **User Documentation:  
FlavorFusion**

— *Sponsored by Gordon Ramsay*

short line

Team:

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# Introduction:

Flavor Fusion is a simple solution designed to streamline recording and managing recipes. Built with simplicity in mind, the C++ Console Application is capable of writing recipes to their own text files on your local machine in order of mealtimes (Breakfast, Lunch, Dinner, Snacks, etc.) to allow for easy recipe sorting. This document provides a detailed plan for the development of a recipe launchpad application.

# Installation:

The development of this application was done in Microsoft Visual Studio, which allowed our team to effectively and efficiently create it through the built-in tools of the integrated development environment (IDE). In order to access this recipe management application you will need to download it through the following process:

1. Download Microsoft Visual Studio with this link: <https://visualstudio.microsoft.com/downloads/>
2. Open ‘Microsoft Visual Studio’
3. Go to any web browser of choice and visit the GitHub repository with this link: <https://github.com/baetenJ/FlavorFusion>
4. Click the green ‘Code’ button, then click ‘Download Zip File’
5. You should now have a folder titled ‘FlavorFusion-main’
6. In Visual Studio, open the folder ‘FlavorFusion-main’
7. You should be prompted by the IDE to download C/C++ extensions
8. Download the extensions and wait for them to complete before running the program.
9. After download completion, click the file ‘FlavorFusion.cpp’ to open it
10. Select the green play button at the top of the IDE, it should show ‘Current Document (FlavorFusion.cpp)’
11. A terminal window will pop up and the application will be ready for your instruction

# Menu Selection:

Upon successful installation, you will be presented with four paths to embark on. In no particular order you may select from the following:

1. Add Recipe Entry
2. View Your FlavorFusion Menu
3. Export Recipes To File
4. Exit Program

Options 1 - 3 may be repeated as many times as necessary to receive the desired final outcome. Option 4 will close your terminal, and you will have to restart your recipe book from scratch. At this current point of development, progress will not be saved if you did not select option 3 at the end of your session. Below we will explore more of the functionality of the first three options in greater detail.

# Recipe Entry:

By selecting option 1, you will be transported to the ‘Add Recipe Entry’ portion of the application. You will first be prompted to enter the title of the recipe you wish to create. Next, you will declare what meal category that titled dish will go under. You must type a number in this portion. The following options will be:

1. Breakfast
2. Lunch
3. Dinner
4. Snack

After the selection of meal type, you will be responsible for accurately entering the ingredient name and measurement. Each entry line will contain an ingredient and measurement amount, after which you will hit the ‘Enter’ key and reiterate the same process until you have entered all necessary ingredients to make the dish. You must type the word ‘done’ on a new line to move onto the next step of the application.

Once the ingredients and measurements have been accounted for it’s now time for you to enter the steps it will take to cook the dish. After each step you input, you will have to hit the ‘Enter’ key to go to a new line. When finished, type the word ‘done’ to go to the last step of the entry portion.

The final step calls for you to enter the amount of servings your dish will be prepared for. You will simply enter any positive whole number. Push the ‘Enter’ key after entering the serving size, and you should receive a message stating that the “Recipe saved!”. You will then be transported to the main menu.

# View Created Menu:

By selecting option 2, you will be transported to the “View Your FlavorFusion Menu” portion of the application. This will show you a broken down version of the current entries that have been inputted into your FlavorFusion Menu. Each recipe entered will be under the indicated food categories. At first, this section will be blank aside from the meal type headings. It’s up to you to fill out this menu and double check it is to your liking before moving on to option 3.

Even though you can navigate between the three menu options, it is heavily recommended to complete the program sequentially.

# Export Menu File:

By selecting option 3, you will be transported to the “Export Recipes To File” portion of the application. Before you access this option, it is advised to select option 2 to assure that all items you have inputted are to your liking and are accurate. Upon typing the number 3, you will be prompted to “Enter the file name you would like to export to:”. The title of the file will be converted to a ‘.txt’ file that will be a copy of your most updated version of the menu you created. This will allow you to have your very own FlavorFusion Menu that you created.

**Exit Program:**

By selecting option 4, you will terminate the FlavorFusion application. At the state of the application, this will permanently delete all entries into the FlavorFusion menu you created. It is imperative that you have selected option 3, to get a copy of your completed menu before exiting the application. There is no warning message before destroying the data, so be very careful before selecting this option.

# Summary:

* Introduction:
  + This portion outlines the development plan for the FlavorFusion application.
* Installation:
  + This portion identifies how users should access and download the resources needed to properly install and run the application.
* Menu Selection:
  + This portion highlights the important aspect of the main menu and gives advice about how to navigate through the program to get the best results.
* Recipe Entry:
  + This portion goes over in detail about how to properly enter an entry. It gives the user suggestions on how to optimize their recipe entry experience.
* View Created Menu:
  + This portion highlights the importance of selecting this option intermittently throughout the process.
  + It allows users to validate different menu states as they develop it.
* Export Menu File:
  + This portion explains how to enter the file name and what to expect as the output.
  + The user will receive a text file with the title they listed.
* Exit Program:
  + This portion stresses the importance of exporting their completed menu before accessing this option.
  + Progress will be permanently deleted at this point in time.