

Programming Project / C++ – Cooking Recipes Application

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I. Task Description

- **Student 1** is responsible for managing recipes:
 - Adding new recipes (title, description, ingredients)
 - Modifying existing recipes
 - Deleting recipes
- **Student 2** is responsible for interacting with the recipes:
 - Viewing all available recipe titles
 - Viewing the full details of a selected recipe
 - Searching recipes by keyword

II. Data Structures Used by the Team

The following class will be used:

- Recipe: `string title, string description, vector<string> ingredients`

III. File Structure

The following file will be used:

recipes.txt

A file where details about recipes will be stored in the form:

```
<number of recipes>
<recipe1 title>
<recipe1 description>
<number of ingredients>
<ingredient1>
<ingredient2>
...

<recipe2 title>
<recipe2 description>
<number of ingredients>
<ingredient1>
<ingredient2>
...
```

IV. Interacting with Executables

The application will offer the following options:

```
./app.exe view_recipes  
./app.exe view_recipe <title>  
./app.exe add_recipe <title>  
./app.exe delete_recipe <title>  
./app.exe edit_recipe <title>  
./app.exe search_recipe <keyword>
```