

# iRobot Cloud SW Team Take Home Assignment

Here at iRobot, one of the most important things a developer strives for is free food. For this assignment, you will be creating a Python application to accept ingredients as user input, and use them to search for tasty, tasty recipes online.

## Assignment Overview

- Create an account on <http://food2fork.com>
- Create a Python executable that accomplishes the following:
  - Read in a series of ingredients
  - When the user has finished entering the ingredients, use those ingredients to search for recipes online
  - Using the most popular recipe that contains all of the supplied ingredients, display to the user which ingredients are missing from the recipe.
- Upload the solution to GitHub, complete with a readme containing instructions.
- We should be able to clone your repository, and run your solution following your instructions, so don't forget to include instructions on any dependencies used.

## Important Considerations

In addition to being able to run your program successfully, the cloud team is interested in understanding your approach to the assignment, particularly the decisions you made regarding:

- Maintainability (code organization and structure)
- User Experience
- Security (API key management)
- Documentation (End user and internal)
- Error handling
- Testability

As part of your interview with us, we will walk through your code and ask you questions regarding the assignment, with a focus on the Important Considerations section of the assignment.