# Overview

As a relatively disorganized person, it can be challenging to keep track of what foods I can make with which ingredients. As such, I needed a program that could store some of my favorite recipes and allow me to search through them to see what recipes I could make with the ingredients I have on hand (i.e. without having to go to the grocery store).

This Recipe Management Software has been developed as a solution to existing recipe management needs. At a high level, the following are in scope for this project:

* Storage of recipes
* Querying of recipes
* Addition of new recipes to storage
* UI to enable ease of use for non-technical people

Anything not explicitly called out in the requirements section of this document is considered out of scope.

# Glossary

* RM = Recipe Management Software, the software being developed as part of this effort.
* User = a user of the recipe management software

# Requirements

|  |  |
| --- | --- |
| Req. ID | Requirement |
| 1 | The RM shall be able to store a recipe’s name |
| 2 | The RM shall be able to store a recipe’s ingredients |
| 3 | The RM shall be able to store a recipe’s directions |
| 4 | The RM shall be able to store a recipe’s total cook time |
| 5 | The RM shall be able to retrieve a filtered list of recipes based on ingredients in a query list |
| 6 | The RM shall be able to retrieve a filtered list of recipes based on a recipe name |
| 7 | The RM shall be able to retrieve a filtered list of recipes based on both a recipe name and partial ingredient list |
| 8 | The RM shall provide the user with the ability to add new recipes |
| 9 | The RM shall not allow a user to create a new recipe without a name |
| 10 | The RM shall not allow a user to create a new recipe without ingredients |
| 11 | The RM shall not allow a user to create a new recipe without the total cook time |
| 12 | The RM shall not allow a user to create a new recipe without directions |
| 13 | Recipe names should be descriptive; the RM shall not allow a user to create a recipe if it has the exact same name as an existing recipe |
| 14 | For a given recipe, the RM shall provide the user with a list of all ingredients |
| 15 | For a given recipe, the RM shall provide the user with all associated directions |
| 16 | For a given recipe, the RM shall provide the user with the total cook time |
| 17 | The RM shall include a UI for users to interact with |

# Project Disclaimer

Initial project design was based on code taken from here: <https://gist.github.com/cuneyt76/29e9b502aaa5e7ea5adbdffe11c100f0>

While the code from that site was used as a starting point, it was significantly altered to accommodate the requirements outlined above.