Project proposal

[Project name]

[Name] [Surname]

[Student number]

(of each group member)

Problem domain

In this section, describe the real-world domain in which your proposed system will be implemented. This could be a description of a specific type of company, business, or real-world activity. Your description should be so detailed that a reader who has never heard of the domain completely understands it, what problem(s) plague it, or what opportunities there are to support/improve it. This should clearly highlight to the user why a system is necessary. If this section is shorter than half a page, it’s probably too short.

Proposed solution

In this section, describe the system you plan to develop. Think about

* What should the system do, and how should it do it?
* How would the system improve/support the current domain?
* Whether it should be desktop-, web- or mobile-based (or even a combination of some of them).
* What technologies do you think you’ll use to develop the system?
* A list of all (or at least some of) the screens or system functions you believe the system will need.

When devising your system, keep the following requirements in mind:

* Your system **must** include/be based on a database, regardless of which type of database you choose. Groups of two students must have the absolute minimum of the equivalent of at least 10 tables and groups of 3 at least 14.
* A login system will be needed.
* It should have multiple input (i.e. data capture) screens. A good rule of thumb for the number of screens/system size is around 1 per database table.
* It should include at least one interesting feature that isn’t just a simple data capture screen, such as consuming external data/services or using built-in device features (such as a camera or GPS).
* Be able to generate reports in some or other form.
* Have some form of help or guidance available.
* Incorporate security
* Be maintained via version control (to which I need access)

This section doesn’t require in-depth explanations, as all of this will be presented in later documents. The goal of this section (and document as a whole) is for you (and the reader) to think about what tasks/steps your system development will entail and whether or not the system will have utility. This section should be between half a page and a full page in length.

**Problem Domain**

In the fast paced world of today, individuals often face the issues of meal planning and trying new types of food. The growth of the fast food industry led to the home cooked meals to be less popular due to meal planning difficulties. The current recipe apps that are available feature mostly the same systems such as basic filtering of recipes. There are very few methods that allow users to filter recipes using desired ingredients allowing for quicker meal preparation. Another reason to improve the meal planning stage is to assist families that have different dietary preferences and require strict control of the foods consumed.

Adding to the other recipe apps, most of them feature measurements that require the use of a converter to change the quantities into a desired measurement style(metric or imperial). The instructions in a recipe that is long, tends to cause the individual to have to reread instructions to find their current place in the recipe.

To improve the meal planning experience users would want the feature of filtering recipes based on ingredients at home.

**Proposed Solution**

The solution we propose is a website and a mobile app that allows users to filter recipes based off dietary preferences, ingredients or cook duration. The app will allow users to search recipes and save them for later use and compiling a list of ingredients that they are missing from the kitchen.

Another useful feature that is important to include is to ask a user for their preferred measurement style and then simply convert the measurements if the user requests it.

To prevent a user from losing their current step in a recipe a user will be able to check off completed steps as they are completed.