Project Ideas

You all have some project ideas that you reported in Assignment 1. You are to come up with a project idea for the group as a whole, which could be an individual’s idea, but is more likely to be a combination of each of the ideas you had individually, together with comments and feedback from your Assignment 1 marker, instructor, and anyone else who you would like to consult.

You may also wish to consider what problems need to be solved, for which there are many sources of information, such as the ones below. There are many more websites like these, of course.

[https://www.weforum.org/agenda/2016/01/what-are-the-10-biggest-global-challenges/](https://www.weforum.org/agenda/2016/01/what-are-the-10-biggest-global-challenges/%20%20)

[https://www.cheatsheet.com/money-career/want-to-be-a-billionaire-solve-one-ofthese-5-problems.html/?a=viewall](https://www.cheatsheet.com/money-career/want-to-be-a-billionaire-solve-one-ofthese-5-problems.html/?a=viewall%20%20)

[https://www.quora.com/What-are-common-problems-that-need-solving](https://www.quora.com/What-are-common-problems-that-need-solving%20)

There is no set length for this section, but it is difficult to see how a description of less than 500 words would be adequate. Do not limit yourself to this if you have more than this to write, though - but it should be in a well written and concise format. If you are unsure of how much to write, ask your instructor for advice.

Ideas to begin with:

* App that provides recipes based on what is in your fridge/pantry.
* App to condense English in documents such as reports, emails or job applications.
* “Baby brain”
* Feature of maps app to advise truck drivers of abnormal bridge height locations (such as very low clearance bridges) to help plan routing ahead of time.

Project “Frecipe”

**What is Frecipe?**

‘Frecipe’ is going to revolutionise the way you decide what to cook for breakfast, lunch and dinner!

The project will be designed as a mobile app, specifically designed for integrated devices within refrigerators, tablets, phones and desktop versions also.

**How will you use Frecipe?**

Simply input (or smart scan) the contents of your fridge and Frecipe will do the rest!

Choose which type of meal you wish to cook (breakfast, lunch, dinner, dessert, baking, etc.) and Frecipe will let you know what meals you can create using the stock in your fridge (and pantry?)(or will also tell you what you will need from the pantry?). Additionally, Frecipe will offer suggestions for ingredients to possibly purchase and use next time with your chosen recipe.

**Why Frecipe?**The motivations for this idea stems from the indecisiveness I think we all experience at one time or another, when you just stare into the fridge thinking ‘What can I cook?’, frantically googling ‘What can I make with xyz?’ which often yields undesirable results. As life gets busier and busier for the average family, one less thing to think about makes all the difference!

**How will we make it happen?**Through a combination of:

⇒Tools and Technologies

* Java and Swift/Javascript (React Native)
* SQL (or variant of)
* GitHub
* IDE (such as eclipse)

⇒Skills and Knowledge

* Developers (programming)
  + Java
  + Swift
  + Possibly Javascript (React Native)
  + SQL
  + Agile development - TDD, FDD principles
* Experience Designers
  + User Experience (UX)
  + User Interface (UI)
* Marketing
  + Integrate with supermarket retailers (online shopping exports to your stock in app, purchases attached to loyalty cards also do the same)
  + Web advertising focused to online shopping and recipe sites.
  + Targeted at 18 - 30 year olds

**Specifications:**

* Lightweight design for seamless use
* Cross platform design for mobile with Android and iOS along with desktop for Microsoft Windows and Apple OSX.
* Integration with video technology to smartly identify items.
* Storage of data via remote database for multi device use.
* Option to add pantry items.
* Database for recipes.
* Ability to set/add favourites.
* Ability to add personal recipes.
* Ability to smart track perishables based on average lifespan.
* Option to share recipes with others, seamless connection to Facebook, Twitter etc.

**When?**

A 4-6 month turn around is forecast is estimated, as outlined in the roadmap below:

