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**Final Project Proposal**

Project name: Personalchef

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# Introduction

Many of today daily chores are being virtualized and made simple. Such ideals as dishwashers, electric tooth brush and even doggy sitters (people who are being payed to walk your dog) are being embraced as it makes our time more available with little cost. As in those advances, the kitchen was not left behind: Lots of electrical appliances had become necessities.

Today, there are lots of way of getting to know how to cook. From physical courses, to online courses and even trying out your own made recipes. Many people are experiencing with food making in their own home as couple of thing occurred: The first is the technological advancements that were discussed above. And Secondly, Gender roles are taking less and less effects than they used to, making men using the kitchen more often than in the last centuries.

# The Need

# To understand the need for such application we need to understand what difficulties users are having when they are making food. Usually, the recipes are somewhat not easy to get. The recipes are mostly in HTML sites from the last decade and are designed for mothers who are looking to refresh their menu and gain experiences.

# For a 20-year-old student., those sites are in bad taste and feel. And the big misconception is that those sites are recipe oriented and not customer oriented. That means that they believe that for every recipe we want to make, well need to make an inventory of our refrigerator. Those tasks are exactly what 20-year-olds are having trouble doing. The Solution

# SuperChef team decided to make a site that can help those who aren’t great at making food and are planning to prepare food without leaving their houses. Our App will take a picture of the refrigerator and will print out what recipes can be accomplished with these ingredients. The recipes will be taken from all those non-readable sites and will be printed per user needs.

About the picture taking part: We will make an algorithm that knows how to identify the products in the fridge and list all (or most) of them.

About the looking for recipes part: We will make a crawler that knows how to read those sites format and save the contents in orderly fashion.

# The Academic Justification

# The main feature in our app is to know what ingredients there are inside our refrigerator and lists it for the user to see.

# To do so, the app needs to use modern day technologies such as machine learning, picture analyzing engine that knows how to define groceries into a user readable list. Furthermore, to find quickly the recipes, we need to have in cache all recipes ingredients. For this action, we need to build specific crawlers that know how to digest correctly those old sites.

# The entire app is user friendly and builds on modern techniques and technologies as was studied in the last year.Milestones

|  |  |  |
| --- | --- | --- |
| Description | Due data | Number |
| Submit Project Proposal | 15.12.16 | 1 |
| 1st project committee | 15.12.15 | 2 |
| start to define algorithm | 1.1.16 | 3 |
| starting to implement the algorithm | 1.3.16 | 4 |
| writing the app | 20.3.16 | 5 |
| Project day | 10.6 (estimation) | 6 |
| Project book | 15.8.17 | 7 |
| Defenses | 15-30.8.17 | 8 |

# Bibliography

Modern cooking sites

<http://www.supercook.com/>

<http://www.recipepuppy.com/>

<http://myfridgefood.com/>

<http://www.instantfundas.com/2010/08/15-websites-to-find-recipes-by.html>

Israelian cooking sites

<https://www.youtube.com/watch?v=cs68bVTVinQ>

<http://www.mako.co.il/food-masterchef/season6-simply_cook/Recipe-e136c512bdbf751006.htm?sCh=55e439cdf3178110&pId=25483675>