

Project Proposal

Smart Shopping List

Project Name	Smart Shopping List
Project Leader	A. Walliser
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Revisions

Date	Author	Change
October 19, 2018	C. Wagner/A. Walliser	First version
November 18, 2018	C. Wagner/A. Walliser	Second version

Contents

1 Introduction

The smart shopping list is an easy to use app which makes shopping and finding recipes to cook easier because all shopping lists and recipes of a household can be shared. In the app the user can create and join groups, those groups have shared shopping lists and recipes.

One can also find other people's recipes or get inspired by them. When a recipe is selected all needed ingredients will be automatically added to the shopping list unless they are marked as already present.

2 Initial Situation

2.1 Overview

Members of a typical household must go shopping for groceries at least once a week. A lot of households use grocery lists to organise that process. Problems that could occur are that the grocery list gets lost or if the list is in use nobody else can add shopping items to the list. It also could happen that multiple lists get written because of miscommunication between the members of a household.

Furthermore things get more complex when the combination of recipe books and grocery lists is considered. The items found in different recipe books have to be manually transferred to the shopping list.

These processes could be simplified by using a grocery list app. Apps like this already exist. In the following the most popular apps in this area are listed and their pros and cons are evaluated.

2.2 Examples

2.2.1 Shopping List

The app shopping list is very simple designed, so the user has only the ability to create a shopping list where they can add and remove items. There are no features like shared lists or recipe books. The items on the list can not be categorized, and when adding an item, there is no quick select feature so the user always has to write the whole item name. When clicking on an item on the list it can be marked as bought, edited or deleted, but there is no feature to delete all items that are marked as bought. So after marking all items as bought, every single item has to be manually deleted.

2.2.2 Bring

Bring is a multi-user shopping list app where you can share shopping lists in a group. The app provides the user with default items those have icons matching the product. When an item is added to a shopping list the amount can be stated. The app provides a recipe book but the recipes added by the user are mixed with recipe suggestions which makes it harder to find recipes. New items can be added by the user. They can choose a name and one of the already existing icons for their item. Shopping items are categorized which make them easier to find but the categories can not be altered by the user in any way. That makes it hard to choose which category a new

item should be in because the category where it actually belongs is not provided. Categories can also get redundant if the user is in no need for a certain type of item for example vegetarians do not need a "Meat and Fish" category. Bring has a web-interface and is available for both android and IOS.

2.2.3 Die Einkaufsliste

In the app Die Einkaufsliste the user has the ability to share shopping lists via a link that can be send by email. The items on the list are categorized, but the order of the categories can not be changed. There also is a quick selection feature when adding an item and to remove an item the user only has to tick it and click on a button to remove all ticked items. There is no feature for creating groups or managing recipes.

3 General Conditions and Constraints

3.1 Conditions

It is very essential for our app to have an user-interface that is easy to use because every person that goes shopping is a potential customer. Some of them are quickly overwhelmed when using apps therefore we want to design our app similar to the UI google uses, that for example is used in gmail, google drive or google docs. We would benefit from using an UI that is designed like the UI google uses because most android users are familiar with it, so it is much easier for them to get used to our app.

In order to allow the user to share their lists and recipes, we have to setup a database that is always reachable, so we can guarantee that the user can update the shared lists and recipes at any time.

3.2 Constraints

Users can only update the shared lists and recipes if they have an internet connection. Since the app is mostly used while shopping where mobile data is used, the app should use as little data volume as possible. Because some users do not have mobile data or already consumed it, we have to provide an off-line feature where the user can access the lists. We want to achieve this by saving the lists local and synchronise the lists when an internet connection is available. Due to limited time we are not going to provide cross-platform,so the user needs an android device to use our app.

4 Project Objectives and System Concepts

Users should be able to create and enter groups with shared grocery lists. In those groups members can add and remove items from the grocery list. The user should be able to enter multiple groups. The grocery list can be sorted by categories. Default categories will be provided those can be altered or extended by the user. The user can add items to categories so they can be found more easily later on. The app should also help with recipe management, recipes can be saved in the recipe book. The ingredients of the recipe will be added automatically to the grocery list when selected. Recipes can be shared in a group or can be posted for other users to find.

5 Opportunities and Risks

5.1 Potential customers

Every person that needs to go shopping for groceries is a potential customer. Especially households with more than one member.

5.2 Opportunities

One of the biggest opportunities is that the process of shopping gets simplified, because the members of a household do not have to merge their lists any more and when using the app it is less likely to forget some items. An other advantage would be that the time for finding new or even the own recipes is drastically decreased.

5.3 Risks

One of the risks we have to take into account is that people use the app of competitors rather than ours because they are well-known or the user prefers them. An other risk could be that do not want to use a shopping list app because they do not want to readjust.

6 Planning

- Project end: 13.6.2019
- Project start: 23.10.2018

6.1 Milestones

Date	Milestone
December 13, 2018	Database set-up
January 14, 2019	Login finished
February 25, 2019	Graphical-User-Interface finished
February 25, 2018	shopping list finished
April 4, 2018	recipe book finished

6.2 Team

Project leader: Alexander Walliser

Programmer: Clements Wagner