

Project Proposal

Smart Shopping List

Project Name	Smart Shopping List
Project Leader	A. Walliser
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1 Introduction

The smart shopping list is an easy to use app which makes shopping and finding recipes to cook easier because you can merge all shopping lists and recipes of your household and have them always with you. In the app you can create and join groups, those groups have shared shopping lists and recipes.

You can also find other peoples recipes or get inspired by them. When you select a recipe all needed ingredients will be automatically added to your shopping list unless you mark them as already present.

2 Initial Situation

A typical household must go shopping for groceries at least once a week. A lot of households use grocery list 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.

Another problem is if someone wants to cook a dish using a recipe because adding the items to the grocery list manually can be a chore. Those two processes could be simplified by using a grocery list app. Apps like this already exist but often they can only be used by one person at a time, have no or bad option for recipe management or they have a discursive user-interface.

3 General Conditions and Constraints

The proposed system has to deal with the following constraints:

Framework conditions:

- needed know-how: Java, databases, mobile-development
- Project release: 13.6.2019
- Development environment: IntelliJ

Technical conditions:

- The GUI must be intuitive
- An external database needs to be setup
- Possibly cross-platform development
- The database must always be available

4 Project Objectives and System Concepts

The project objectives can be summarized as follows:

- Users can create/enter groups with shared grocery list.
- Every group member can add/remove items from the grocery list.
- A user can enter multiple groups.
- Recipes show the needed ingredients which are automatically added to the grocery list.
- Users can share recipes in their groups or with the world.
- The items in the grocery list are sorted by categories which can be altered by the user.

5 Opportunities and Risks

Potential customers:

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

The project has the following opportunities:

- The processes of shopping gets simplified.
- Decreases the time of finding recipes.
- The time needed for shopping will drastically decrease.

The following risk have to be taken into account.

- People don't use the app because they don't want to readjust.
- People use the app of competitors rather than ours.

6 Planning

- Project end: 13.6.2019
- Project start: 23.10.2018
- First prototype: 25. 2. 2019

Milestones:

- Setup basic Database: 13.12.2018
- Login: 14.1.2019
- basic Graphical-User-Interface: 25. 2. 2019
- Implementation of a shopping list: 25. 2. 2019
- Implementation of the recipe book: 4.4.2019

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