HTL LEONDING

Project Proposal

Smart Shopping List

Project Name	Smart Shopping List
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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 all hopping lists and recipes of a household. 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

Members of 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. It also can be a chore to look for ingredients in the recipe book and add them to the shopping list.
These 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.

Examples:
Listonic:
Pros:

- Well structured.

Cons:

- No option for recipe management.
- There is no shared shopping list.

Bring:
Pros:

- Shopping items are categorised.
- There is a recipe option.

Cons:

- Categories can not be changed or extended.
- Ones recipe book and other peoples recipes are not separated.
- Recipes can not be shared in a group.

Die Einkaufsliste:
Pros:

- Lists can be shared via link.

Cons:

- No option for recipe management.

3 General Conditions and Constraints

Conditions:

- A shopping list should be usable by anyone therefore the GUI should also be understandable for non tech-savvy people.
- We need a database that is always reachable.

Constraints:

- The user needs a internet connection.
- The app will often be used while shopping where mobile data is used therefore the app should not use to much data volume.
- The user needs an android device to use the 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 your recipe book. The ingredients of the recipe will automatically be added 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

Potential customers:

- Every person that needs to go shopping for groceries is a potential costumer.
  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

Milestones:

- Database : 13.12.2018
- Login finished: 14.1.2019
- basic Graphical-User-Interface finished: 25. 2. 2019
- shopping list finished: 25. 2. 2019
- recipe book finished: 4.4.2019

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