

Universität Bern

Introduction to Software Engineering

# Shoppypyapp

Software Requirements Specification Document

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Version	Date	Revision Description
0.1	02.10.2013	First version of the document.

# Introduction

## Purpose

Shoppy is an application for the Android platform to manage shopping lists with the phone. The main purpose of Shoppy is managing your shopping lists and the ability to organize them together with your friends.

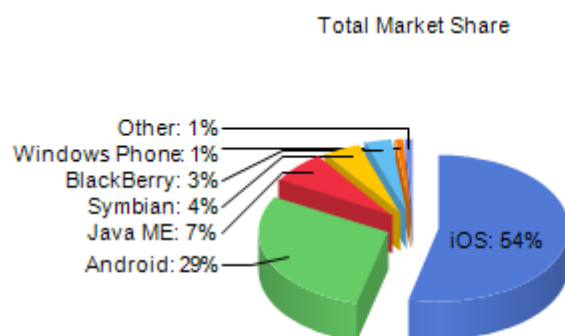
The goal of this application is to be a time-saver and cooperative tool to organize shopping with your friends and family.

## Stakeholders

The application is of use for anybody who likes to create a list before going shopping to not forget what he or she likes to buy. In that sense most people are potential customers of Shoppy. As we plan our initial release of the App only for the Android platform, just owners of an Android driven phones can use our application.

To make the potential amount of users a bit more visible, we include some statistics for mobile platform market shares.

### Mobile/Tablet Operating System Market Share as of September, 2013



Source: <http://www.netmarketshare.com/>

These numbers are difficult to evaluate and differ significantly depending on what source is used, but they can give an impression of the mobile market.

### System overview

The suggested name of the application is Shoppy which is a short and easy to remember name and has a sympathetic and cute subtone.

The user can create multiple shopping lists for different purposes and share each of them with other people. All users of a shopping list can add, remove and edit items from shopping lists, mark them as bought and organize them in categories. All of these actions will be synchronized in case of a shared list. A shared list can be created by selecting people from the phone contacts.

If the user starts typing in a new item for a list, the application suggests items that were already added to a list in the past

When you open the app it returns to the last opened list and presents you the items you have to buy.

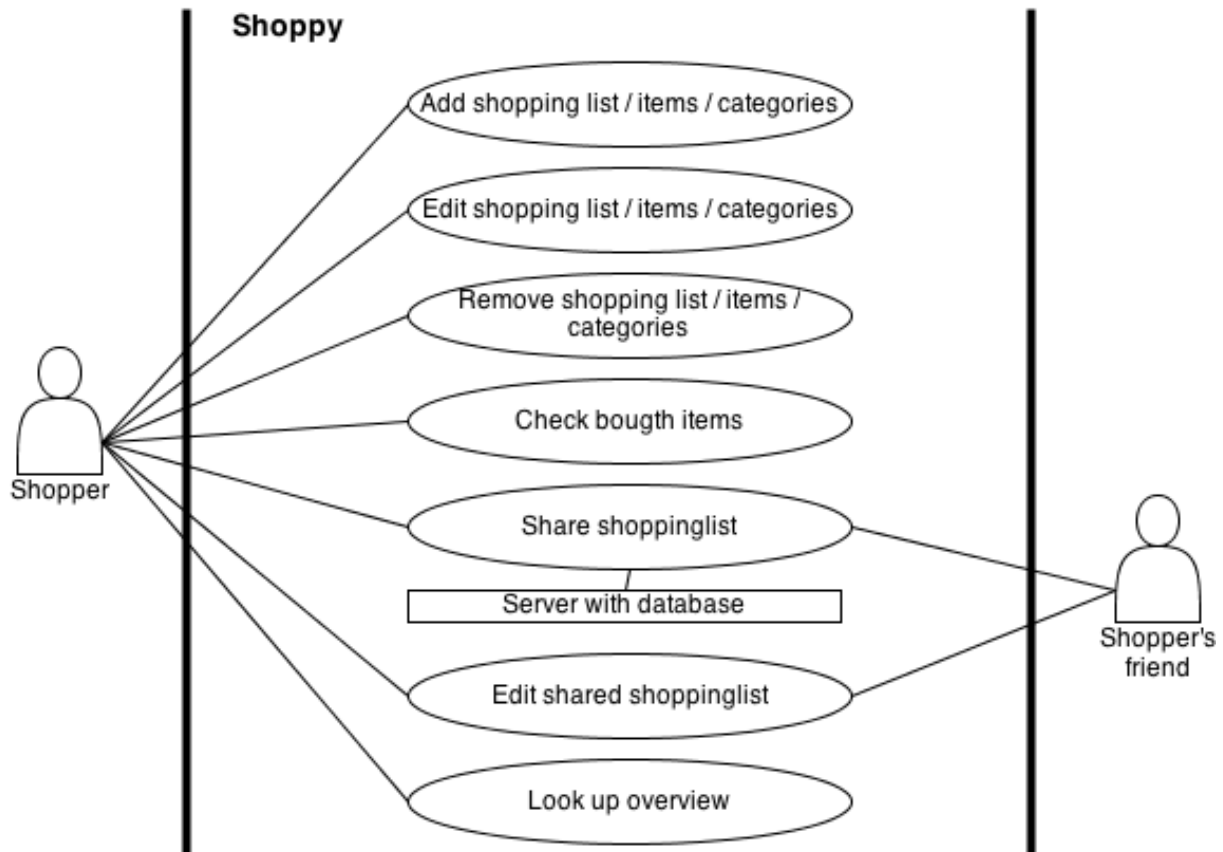
### References

There are a lot of already existing shopping list applications, but each of them has different downsides. We evaluated user comments for many apps and tried to build our feature set with these comments in mind. Some very popular applications are:

- [Out of Milk](#)
- [Einkaufsliste](#)
- [myShopi](#)

## Overall description

### Use case diagram



### Use cases

**Add Shopping List:** A customer wants to add a shopping list, which he can add in the main menu. The preconditions for this is only that he bought the program. The customer can do this by clicking an “add shopping list” button (temporary) in the main menu.

**Edit Shopping List:** As a customer I want to edit the shopping list by adding items, remove items, and rename lists and Items. Here are no more preconditions necessary as to buy the app. To access this function, delete/add it with a button (temporary) in the list view.

**Add/Edit Categories:** A customer can add a category to an item or a list, which can be used to sort items. The category-view provides the user with a special experience to view all categories and the items in it.

Use Shopping List: As a customer i actually want to use the list i created (or a friend of mine) and check the items i bought. This can be done with pressing the checkbox next to an item (temporary).

Share Shopping List: A customer wants to share his shopping list with his friends, which he can access through a share button (temporary). The additional pre-condition for this is a login to a social network (name, password) which either exists and has to be implemented, or we create our own. After sharing, the one who shares his list should be the admin of it and controls the actions of the other friends he shared it with. As a user i also want to stop sharing a list.

Edit Shared Shopping List: A customer can edit shared lists, what he can or can't do to a shared shopping list is up to it's admin.

Overview over all Items: The Customer can view all the items he has bought or still has to buy. This can be accessed through an other tab (temporary).

## Specific requirements

### Functional requirements

all use cases

### Non-functional requirements (external, performance, etc.)

#### Sharing via push notifications

excellent performance! (app has to be started or provided with a shopping-list screen almost instantly, overall performance should not be annoying (for example the scrolling is continuous, the transitions between different pages is fluid))