



GA/SA/BA/MA/Lab:

## Android Assisted Smart Shopping

Even as smart phone market penetration surpasses 40%, everyday shopping continues to be mostly paper-driven. Not only will your receipts be printed on paper, but the easiest way to compile a shopping list is still with a pen. This situation can be improved by the use of smart phones.

During the last semester, a first prototype addressing those issues has been developed. We intend to continue this project to develop a user-friendly application that helps to keep track of bought items and prices, and aids the user in compiling her shopping list. The application makes use of an existing OCR<sup>1</sup> library to scan paper receipts and analyze purchased items and prices. Together with previous purchasing behavior, this is used to predict what items will be required in the future.



The development of the prototype showed there are a lot of directions for further improvement to be explored. Depending on the kind of thesis you are writing, there are some fields you could choose to work on. One example are community features like shared shopping lists and bill-splitting among your flatmates, but there are many others. And of course, there is also enough room for your great ideas we haven't thought of!

### Goals

- Continue working on the Android Assisted Smart Shopping project

### Requirements

- Excellent Java Programming skills. Knowledge in software architecture is desirable for future extensions.
- Experience in development for the Android platform and/or Web Services is advantageous, depending on the area you will be working on.
- The ability to work independently on the topic.

### Interested? For more details please contact

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<sup>1</sup>Optical Character Recognition