

Title

Receipt to spreadsheet.

Protagonists

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Goals and work

The goal of the project is to design system that converts a given image of a receipt into a spread sheet of products and their prices. There are mainly three aspects to this work. First of all the images need to be capture by a device. In my case I will be using an Android phone (my own Nexus 5). Secondly these images will be processed by the phone using the OpenCV library before finally being feed to an OCR system. For this last part, I am currently thinking of using Tesseract [2]. My first sources in this project will be: [4], [1] and [3].

References

- [1] Archana A. Shinde and D. G. Chougule. *Text Pre-processing and Text Segmentation for OCR*.
- [2] Smith Ray. *Tesseract-OCR*. 2015. URL: <https://code.google.com/p/tesseract-ocr/>.
- [3] Chirag Patel, Atul Patel, and Dharmendra Patel. "Article: Optical Character Recognition by Open source OCR Tool Tesseract: A Case Study". In: *International Journal of Computer Applications* 55.10 (Oct. 2012). Full text available, pp. 50–56.
- [4] W. Bieniecki, S. Grabowski, and W. Rozenberg. "Image Preprocessing for Improving OCR Accuracy". In: *Perspective Technologies and Methods in MEMS Design, 2007. MEMSTECH 2007. International Conference on*. May 2007, pp. 75–80. DOI: 10.1109/MEMSTECH.2007.4283429.