Wine Cellar
An Android search engine for wines featuring camera-based text recognition

Abstract

A wine search engine that uses input from camera images rather than directly from text

Motivation

• When choosing a wine at a restaurant, want a concise search engine
• Text input is a cumbersome solution when trying to compare between many kinds of options

Features

• A concise search engine when choosing a wine at a restaurant
• Point phone’s camera at wine list and use image as input
• Collective results including all available options on the menu

Search

Optical Character Recognition

The Android mobile device captures an image using its built-in camera
The image is sent to the server
The raw text extracted from the image is sent back to the phone
The server receives the image from which text will be extracted
The server performs OCR on the received image

Conclusion

Designed an Android search application for wines that performs Optical Character Recognition on images obtained from a camera and queries the found terms as a unified search

• After text recognition is performed and results are sent back to the phone, a web based search is carried out
• All different wines found are queried and appear as unified search results

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