



Final project proposal

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Department / Group			
Software engineering			
Topic(s)			
Pattern recognition, machine learning, image processing			
Project can start from		01.04.2014 - 01.03.2015	
Project duration		4 months	
Short description			
This project is inspired by the well-known iPhone app "Word Lens". It identifies, recognizes the text captured by the camera on a mobile device, translates it to another language, and renders the translation onto the screen. The motivation of this project is to enable the user to navigate in a foreign language setting with the assistance of a mobile device. The application should work on Android phone, while the OCR and translation engines should run on a			
server. The goal is to achieve near real-time mobile-based system of text extraction,			
recognition and translation.			
Results and assessment The final result from the project should be a written report on the methods that segment and			

The final result from the project should be a written report on the methods that segment and recognize the letters. Also implementation of some chosen methods and possible improvements should be provided. This implementation will be tested and evaluated on existing database. The results from the testing and evaluation should be also reported and presented.

## Other (additional) information