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Master's Thesis Specification

Titel

Introduction

The goals of this master's thesis

We argue that complement topic extraction from reviews with the capability of cluster similar reviews (assigning them to a well defined task of maintenance/evolution) and determining the corresponding parts of source code that need to be maintained/changed (in according to the suggested change tasks), will concretely help developers planning app improvements and meeting market requirements.

Task description

The main tasks of this thesis are:

1. Read up on the current state of the art in industry and research in the areas relevant to the thesis, including AR-Miner.
2. Write a software program able to gather user reviews and save them into a database.
3. Extend the program, so it is capable to link clustered reviews with the corresponding source code.
4. Writing an academic report summarizing the results from the work on items 1 to 3.

Deliverables

The major milestones of the project are as follows:

When	What
1st month	State of the Art review is finished. Tools are picked and learned.
2nd month	Database is set up and collecting user reviews.
4rd month	Implementation of the Linking is finished.
5th month	The proof-of-concept implementation is finished.
6th month	Thesis is written, proof-of-concept is fully functional and delivered.

Provided resources

There is no need of special provided resources to realise this thesis

General thesis guidelines

The typical rules of academic work must be followed. In [1] Bernstein describes a number of guidelines which must be followed. At the end of the thesis, a final report has to be written. The report should clearly be organized, follow the usual academic report structure, and has to be written in English. As implementing software is also part of this thesis, state-of-the-art design, coding, and documentation standards for the software have to be obeyed.

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