

A Tool for Visualizing Patch-Flow-Based Metrics

Summary

Inner source is the collaboration using open source practices within the confines of an organization. One method for quantifying inner source activity is to measure code contributions across project and organizational unit boundaries. We have developed a toolkit which measures (patch-flow crawler) and analyses (patch-flow analyzer) such contributions from source code repositories

The thesis implements a REST service, which will provide the analysis results that are stored in a database to other software components, and a user interface consuming the REST service, which will visualize these results. Finally, the thesis will evaluate the developed implementations against the requirements posed in the beginning of the thesis to assess whether its purpose was achieved.

Work Results

- Developed Data Provider REST service
 - Designed interface for metric result retrieval
 - Compared and selected server-side frameworks
 - Developed Java-based REST service providing metric results
 - Provides simple authorization functionality
- Developed Visualizing Client Application
 - Selected open source charting / visualization software
 - Selected a JavaScript web application frameworks
 - Implemented visualization of metrics in JavaScript oriented on given examples (patch-flow, accounting ledger, hierarchical overview of accounts)

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