

QDAcity Quality Metrics

Summary

QDAcity is a web application for conducting Qualitative Data Analysis with a focus on collaborative research and research validation through crowdsourcing. Within the scope of this thesis the student will implement quality metrics for evaluating the quality of a QDAcity project. The thesis shall consider at least one new metric for each of the following criteria:

- Intercoder Agreement. Currently implemented only as paragraph agreement using IR metrics. Possible additions: consider different units of coding and Kappa statistic
- Theoretical Saturation. Measure saturation of a project over time.
- Completeness w.r.t the coding paradigm (Corbin & Strauss)

The metrics shall be user configurable (where feasible) and provide a sensible preset.

This thesis includes the assessment of the usefulness of different metrics, their implementation and visualization integrated in QDAcity.

Work Results

- Literature review
 - QDA evaluation methods (Intercoder agreement, saturation)
 - App Engine development ¹
- Implementation, built on the QDAcity technology stack
 - Java 7 + JDO +Google Datastore backend
 - JS + React.js frontend.
 - Frontend and backend will communicate through a REST API built on Google Endpoints.
- Description of solution in written thesis

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¹ Sanderson, D. (2015). *Programming Google App Engine with Java: Build & Run Scalable Java Applications on Google's Infrastructure*. " O'Reilly Media, Inc."

More information: <http://osr.cs.fau.de/theses/resources/>

