Real-Time Collaborative QDA

Summary

QDAcity (http://qdacity.com) is a web application for conducting Qualitative Data Analysis (QDA) of text data. A key benefit of this platform is easier collaboration of multiple researchers in a research project where qualitative forms of inquiry such as interviews are the main method of data collection.

Within this thesis, you will extend this capability by designing and implementing a workflow that allows multiple users to code (analyze, edit) the same document concurrently and every user's view shall be synced on a new edit by another user..

In other words you will help us make QDAcity the Google Docs of QDA software.

Work Results

- Preparation
    - App Engine development [1]
    - Collaboration frameworks, one possible direction could be the google realtime API[2]
- Implementation
    - Built on the QDAcity technology stack
        - Java 7 + JDO + Google Datastore backend
        - JS + React.js frontend.
        - Frontend and backend 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.".

[2] https://developers.google.com/google-apps/realtime/overview