

Data Analytic Tools for Inconsistency Detection in Large Data Sets

Week 6 Report

03/24/2018 – 04/06/2018

Client/Advisor: Kingland Systems, Ying Cai

Team Members/Role:

Logan Heitz – Project Lead

Christopher Konopka – Communication Lead

Camden Voigt – Technical Lead

Timothy Rogers – Quality Lead

Weekly Summary

Past week accomplishments

- Logan:
 - Setup for new AWS instance with Amazon Aurora setup as database
 - Begun testing of non-threaded version on new AWS instance
 - Fixed bug with unclosed JDBC resources
 - Created new releases to incorporate new bug fixes and log level changes
- Christopher:
 - Testing of new releases on AWS instance using MySQL database
 - Finding and fixing bugs found during performance testing
- Camden:
 - Finished setup and deployment of REST API and front-end UI demo on AWS server
 - Testing of Multi-threading release on local test server for comparison of non-threading release on local test server.

- Fixed memory leak caused by unclosed ResultSet object
- Timothy:
 - Continued work on getting integration tests properly setup
 - Continued work on removing SQL dependencies from existing unit tests
 - General improvements to test suite

Pending issues

- Logan:
 - Fix test issues with AWS instance using Aurora
 - Finish testing of Non-threading release on AWS with Aurora
 - Start testing of threading release on AWS with Aurora
 - Update logging to reduce the number of logs even further
 - Update threading to reduce total number of threads
- Christopher:
 - Start testing of threading release on AWS instance with MySQL
- Camden:
 - Finish testing of Multi-threading release on local test server
 - Start testing of newest Non-threading release on local test server
- Timothy:
 - Finalize test suite improvements

Individual contributions

Team Member	Weekly Hours	Total Hours
Logan Heitz	12	130
Christopher Konopka	12	115
Camden Voigt	14	125
Timothy Rogers	14	130

Plan for coming week

- Logan:

- Fix test issues with AWS instance using Aurora
- Finish testing of Non-threading release on AWS with Aurora
- Start testing of threading release on AWS with Aurora
- Update logging to reduce the number of logs even further
- Update threading to reduce total number of threads
- Christopher:
 - Start testing of threading release on AWS instance with MySQL
- Camden:
 - Finish testing of Multi-threading release on local test server
 - Start testing of newest Non-threading release on local test server
- Timothy:
 - Finalize test suite improvements

Summary of weekly advisor meeting

03/30/2018 Advisor Meeting

- Create new release that have logging changes (1.0.1 for non-threading and 1.1.1 for threading)
- UI is now deployed and working with AWS
- We will create a new AWS instance using Amazon Aurora as the database
- Testing is still moving forward and we should have the SQL dependencies remove from unit tests.

04/06/2018 Advisor Meeting

- Want to get graphs for different performance on AWS and local server made to show Kingland how the performance changes with different size of records in the database.