

sdmay18-27: Data Analytic Tools for Inconsistency Detection in Large Data Sets

Week 8 Report

October 28 - November 3

Team MembersCamden Voigt — *Technical Lead*Christopher Konopka — *Communication Lead*Logan Heitz — *Project Lead*Timothy Rogers — *Quality Lead*

Summary of Progress this Report

Completed work on the Raw Data Parser

Adjusted the parser to handle multiple values of the same key in a single tuple

Added in last date modified check that will sort the raw data files by the oldest first so that data is inputted into the data base before newer information

Added in junit tests for the parser

Merged into master

Completed work on Init Configuration Parser

Conversion of the parser to utilize the SAX xml parser is delayed for now as it is not a critical issue

Test cases for the parser have been verified by the Quality Lead

Merged into master

Begun work on Inconsistency Checker Documentation with clarification on how the matching configuration file will work. It will be modified along with the InitConfig file to specify which inconsistency types will need to be checked.

Discussed and implemented name changes in code to make things more understandable

Changed Data Config File to be Init Config File and accompanying objects

Changed element in Init Config File to key-element

Changed optional-keys in Init Config File to be alias-keys

Pending Issues

Exporter Prototype

Exporter Documentation

Exporter Prototype Implementation

Inconsistency Checker Prototype

Inconsistency Checker Documentation

Inconsistency Checker Prototype Implementation

Plans for Upcoming Reporting Period

Exporter Documentation (Logan Heitz and Jackson Voigt)

Inconsistency Checker Documentation (Timothy Rogers and Christopher Konopka)

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Camden Voigt	Worked on testing and implementation of init config file. Also worked on naming conventions and renaming of objects.	2.5	21
Christopher Konopka	Worked on completing the raw data parser. Began work on the Inconsistency Checker Documentation and worked on how the match config file should be setup.	2.5	16.5
Logan Heitz	Worked on testing and implementation of init config file. Also worked on naming conventions and renaming of objects.	2.5	24
Timothy Rogers	Worked on completing the raw data parser. Began work on the Inconsistency Checker Documentation and worked on how the match config file should be setup. Added in test cases for the raw data parser.	4	23