

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

Week 2 Report

September 16 - September 22

**Team Members**Camden Voigt — *Technical Lead*Christopher Konopka — *Communication Lead*Logan Heitz — *Team Lead*Timothy Rogers — *Quality Lead*

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**Summary of Progress this Report**

Meet with Kingland to discuss project specifications and questions. Determined that there will be a central database that holds more than 100 million records and each day reports will come in that either add new records or update existing records. We have to check these reports records against the central database to find inconsistencies. Kingland also wants us to test existing industry solutions in addition to developing our proprietary solution in order to get a performance benchmark. We also learned that this project will sit on the backend of an existing UI.

Started version 1 of the project plan and uploaded it to the team website. Version 1 will include the project statement, deliverables, design, project requirements, challenges, and schedule.

Development of initial solution for the project and a block diagram to illustrate the solution we are proposing. See below for the block diagram and in group contributions and project plan for more information on the solution.

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**Pending Issues**

Complete Project plan V1

Complete Website V1

Create file structure of config file

Create parser to convert daily reports to SQL table

Create system for doing comparisons in the SQL table and flagging inconsistencies

Update proposed solution with new design plans

Update project schedule with new information

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**Plans for Upcoming Reporting Period**

Finish project plan V1 and Website V1

Meet with advisor to discuss technical approach of the project

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**Individual Contributions**

<b>Team Member</b>	<b>Contribution</b>	<b>Weekly Hours</b>	<b>Total Hours</b>
Camden Voigt	Worked on developing block diagram for proposed design and solution. The proposed design will utilize hashing in order to speed up data comparisons and reduce the size of the database tables. A configuration file will be utilized so that settings can be quickly changed to adapt to Kingland's needs and facilitate quick testing of different solutions.	3	5.5
Christopher Konopka	Worked on problem statement and literature review for project plan.	2	3
Logan Heitz	Worked on Project Timeline and Deliverables for project plan.	3	5
Timothy Rogers	Worked on Validation and Acceptance Test and Challenges for project plan. Updated website for version 1.	2.5	4.5

### Block Diagram

