Universal Alerting Acquisition and Framework

Overview
This project was created in order to centralize all the trap information from the various devices that FedEx uses. The projects consists of 3 parts: creating a database schema, create an application to read traps, and read logs.

Objectives
Our 3 objectives consist of designing a database schema, creating an application to receive traps and place it into a database, and have that same application be able to receive logs and place it into the database.

We should be able to complete all 3 objectives and that would be the core of our project. If we have more time at the end, we can create a GUI for the application that shows graphically how the system is working. Also if we have more time we would try to be able to predict errors that may occur. A majority of the work however will go towards the backend design and implementation. It is unlikely that we will be able to implement the front-end features.

Approach
- Mapped out how the application works and created a diagram of the application.
- Mapped out database diagram in MySQL.
- Found open source libraries with desired functionality.
- Split development into handing snmp traps, logging, and database.

Outcomes
- Implemented basic logging system.
- Implemented basic snmp trap detection.
- Designed database in MySql.
- Learned about MIBS architecture.
- Learned about SNMP4J open source library.