Automated Lab Safety System

Overview
The Automated Lab Safety System was designed for the FAME Lab in Penn State’s IME Department. The FAME Lab safety training system is currently unorganized and involves a lot of manual effort from the FAME Lab Supervisors. Paper documents that are stored in file cabinets are used in order to keep track of everyone that comes in and out of the FAME Lab for training.

Objectives
- Understand and record how other machine shops at PSU certify users
- Define the ideal certification system for the FAME Lab
- Determine which program will be used to create the system
- Create the architecture and system requirements for the proposed system
- Develop a plan for how the system will be created and implemented

Approach
- Identify the scope of the project with the major stakeholders
- Identify ideal features for the Automated Lab Safety System
- Conduct research on current automated safety systems
- Perform research on programs to create the online system
- Conduct research on whether to get rid of the EHS Laboratory Initial training
- Decide which program will be recommended to the department
- Construct functionality and system architecture details for the proposed system
- Create all deliverables necessary for system implementation

Outcomes
- The PSU IME 5 team recommends ColdFusion for the Automated Safety System to be programmed on
- 19 Deliverable were created in order for fast and easy implementation for the IME IT Department
- Once implemented, FAME Lab Supervisors will be able to look up users and their safety training a lot faster and supervisors will be able to sign off on safety training for users online
- Users will be able to schedule their in person training online, be able to view all of their training completed, and have a central hub for all FAME Lab training information
- Faculty members will be able to easily make sure that all of their students have completed the required training for their courses