

# Logging Document

**CECS 491**

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**Date:** November 7, 2019

# Logging

## **Functional Requirements:**

### - Definition -

At every feature operation (successful/unsuccessful), a log is made of that event by the system.

### - Preconditions -

A feature operation occurs on the web application (excluding logging and archiving).

### - Required Inputs -

- Type of Operation Performed
- Error Message ("" if no error occurred)
- User/System Unique Identification

### - Successful Postconditions -

- Logs are saved separate from application information.
- A log is comprised of:
  - Timestamp (Date: YYYY-MM-DD, Time: 00:00:00:00 UTC)
  - Type of Operation Performed
  - The Error Message (if applicable)
  - The User/System Unique Identification
- All logs are saved within the file: logs.csv

### - Failure Postconditions -

- Any of the successful postconditions failing.
- Failure to log.
  - Attempts to log a maximum of 3 times, then notifies the system administrator. System prevents further logging of that specific entry.
  - This operation is then logged.

## **Non-Functional Requirements:**

- Logs are sorted by Timestamp.
- Log Timestamps should be accurate.
- The logging process should take a maximum of 3 seconds.

# Logging Examples:

## Account Registration Error Logging:

