<h1 style="text-align: center">Summary of Hours</h1>

Semester 1 - Total Hours: 24 Hours

Aug 27, 2023 Professional Biography - 1 hour
Writing out detailed Professional Biography for myself

Sep 3, 2023 Project Description - 1 hour
Defining the project I wanted to work on and meeting with Project Advisor

Sep 10, 2023 Team Contract - 1 hour
Writing up Team Contract and communicating with Project Advisor.

Sep 17, 2023 Design Diagrams - 2 hours
Time spent coming up with structure for application and then detailing that design into 3 diagrams of varying levels of detail.

Sep 24, 2023 Task List - 1 hour
Time used developing list of tasks needed to be performed before successful completion of Project and documenting these tasks in a legible and usable manner.

Oct 1, 2023 Milestones, Timeline, Effort Matrix - 1 hour
Time used developing Milestones from task List and attributing the amount of effort needed to accomplish each task.

Oct 8, 2023 Project Constraints Essay - 1 hour
Time spent writing the essay and doing the research/thought necessary to write the essay

Oct 22, 2023 Slide Show - 2 hours
Time spent compiling all of the work I had done up to this point into a slide show and ensuring the quality was acceptable

Oct 29, 2023 Presentation Video - 3 hours
2 hours spent preparing performance for the video and getting a take that was satisfactory. 1 hour spent watching and reviewing other project presentations.

November 24, 2023 Foundational Development - 10 hours
- 3 hours spent learning how to set up a Node.js server and setting out the basic front-end of my application.
- 2 hour setting up MongoDB database

- 3 hours learning how to communicate with a MongoDb database
- 2 hours spent setting up needed HTTP requests to my server from the front-end to make the necessary MongoDb calls.

November 25-26, 2023 fall Design Report - 1 hours
Time spent Compiling the information developed over the course of the semester into my final report and communicating with my Project Advisor so that he could grade my project.

Semester 2 - Total Hours: 67 Hours

Jan 18, 2024 Work To Get My Application Working After Computer Crash Wiped Dependencies - 2 Hours
Over Christmas break my computer crashed resulting in much of my software and data being lost. This included MongoDB so I had to spend some time getting my Database back Working again to run my application again.

Jan 21st, 2024 Test Plan - 2 Hours
Time Spent Developing and Writing 10 Test Plans

February 9, 2024 User Docs - 1 Hour
Wrote Simple User Doc that reflected the state of the application at the time.

March 24th, Presentation Slidedeck, Expo Poster - 4 Hours
Time spent Making both my Presentation Slidedeck and My Expo poster. Extra time was spent dealing with formatting issues on poster.

April 6-8th, Making Improvements to Application before EXPO - 15 hours
Greatly expanded functionality of my application
- User Actions Add Lists **- 1 hour**
- HTML Editor had to switch from ckEditor 4 to TinyMCE - **2 hours**
- Implement BootStrap into Application - **2 hours**
- Delete Documents from database and handle removing them from the table using a modal Dialog - **2 hours**
- Implement User Authentication by merging my application with an open source authentication application. Resulted in having to reroute almost my entire application - **4 hours**
- General UI improvements - **1 hour**
- Updated Display to not displayed hardcoded data but instead pull in the data and present the user with a preview of the document - **2 hours**
- Bug Fixes - **1 hour**

April 8th, EXPO Preparation - 3 Hours
Time spent preparing and performing my presentation for the expo and running through a demo.
Also spent time having to get my application working on my laptop for the demo

April 12th-13th, Final Improvements to Application before Final Submission - 15 hours
Once Again greatly improved functionality of the Application
- Added ability to be an admin - **1 hour**
- Added 4 Web PagesPages for viewing reviews and logs as an admin - **6 hours**
- Designed Ability for User to Submit Changes for review. - **2 hours**
- Re-Worked Design of Database Queries to allow for Reviews to be created when User submits changes for review, documents to be accepted/rejected by an admin and appropriate logging of information - **6 hours**

April 14th, Final Design Report - 8 hours
Most of the content for the design report that was made was out of date because approximately 30 hours of development was done between their creation and the Final Design Report much of this work had to be redone or needed many additions to reflect state of the final submission.

Various Changes Between February 4th and March 24th - 17 hours
Unfortunately almost all of this work is contained in one commit on github so there's very little documentation of when changes were made all I know is what changes were made and how much time was spent on each one. Its hard to give exact dates of when any of these were implemented.
- **Failed Attempts To understand/Implement User Authentication - 8 hours**
  - I spent multiple hours over several weeks trying to implement user authentication using passport.js with a html/js front-end this did not work out well as all of the tutorials for how to do this use ejs which is a formatting language I am unfamiliar with and at the time I didn't know the solution of just inserting my developed html into ejs files.
- **Foundation for Logging Capabilities - 4 Hours**
  - Implemented diff module into application and spent a considerable amount of time trying to figure out a way to store the diff information in a way that was usable by a human
- **Removing Unneeded Content From Previous Commits - 1 Hour**
- **Implementing Save/Delete/Add button for Document Editor - 4 hours**