

Harold E. Johns Studentship Project

Project Summary

The purpose of the project was to design a communication dissemination system for Sunnybrook employers and employees to be able to track and access necessary documents easily. The employers needed a way to be able to easily see who has completed the necessary training and post/update any new information for Sunnybrook employees to be able to complete. The employees needed a system in which all necessary training for them is located and they are notified when any new training is required. The system allows for improved organization and communication between employers and employees by updating the necessary people in real time when documents have been posted, updated, completed, put on hold, etc. The website was designed using PHP and JavaScript as the backend languages and HTML and CSS to develop the frontend. An SQL database was used to store necessary information and was protected from SQL injection by careful handling of the PHP code. All necessary information was assigned properties in the database that can be queried for use in the backend code. The website has two main access portals. One for general users and one for Admins. The Admin level is given separate permissions depending on the type of admin with admin being a superuser that has complete access.

User View

All users access the website using their Sunnybrook username and password. They are assigned access permission from supervisor. The user has access to their own tracker page which displays any past due items, pending items, optional items, on hold items, completed items, along with the teams they are apart off. It also displays all documents in a table where the users can click on a link to access the documents. When clicking on the link it directs the users to the document where they are required to submit their Sunnybrook username and password after reading the document to verify that it has been read and it will then update the system. Once the user has completed the document it will update on their end as well as the supervisors end saying the document has been read.

Admin View

The admin has access to their own my tracker page but also has the ability to access the global tracker page which shows all their employees and their status on document completion. The Admin is also able to edit documents within their assigned groups and post any new documents that will appear on their employees my tracker page so they can complete it. They can also put documents on hold if need be by saving them as drafts to publish later. Admins also have the ability to give access permissions to the employees along with add any new team name or departmental name if need be. Everyone has access to a profile page where they can update their display name if desired. Finally, all users can logoff which will end the session. The website will also logoff the user automatically if the user is inactive for a certain amount of time.

Project Timeline

Having little to no experience with any of the languages including SQL databases I spent the first month learning all these topics. While learning I began setting up an overall plan of how the system would be designed. The next month and a half were spent developing and testing the backend code through the terminal and setting up all necessary file paths. Once the server was online to run the website the rest of the time was spent testing the website and fixing any errors. As well time was spent adding new features to improve the backend of the site and the overall design. The final few weeks were spent on documentation and final edits to properly setup the project for future use