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For our capstone project, we’ve been working with Heart Haven Outreach to help complete a web application designed to be used by the company internally. This application was initially meant to be used as an evaluation tool. An administrator would first begin by creating a user’s account and giving them the credentials. Upon doing this, the user will then sign into the application and complete a survey asking questions based on what they felt their performance as an employee or worker of the company was like. This survey will then be written into a database left to be evaluated by an administrator. The administrator will then go into the application, select the user they wish to evaluate, and complete the survey reviewing how they performed. The results of this survey can be viewed and used to generate a summary report comparing the user’s evaluation of themselves versus the administrator’s actual evaluation of them.

The goal of our work this semester was to finish where other classes left off. This meant we had to set up a database (since one was not provided to us), build its structure, finish programming the survey, finish implementing the login system, and finalize the reporting system on both the home page and the dedicated report page. We were initially unsure of whether the development environment for this was set up by Lewis or the H2O organization, so this was where we started.

We set up a website on <https://www.gearhost.com/> which is a free cloud hosting platform perfect for spinning up websites to test and debug code against. We also liked them because we could set up and manage a MySQL database in the same place. The MySQL database and the PHP site on gearhost were created under a dummy account that we’ve included credentials for in both our github repository and on the site settings. This is so that anybody can hop into this test version immediately and continue where we left off.

Once our PHP site and database were ready to go, we worked on the project via **Notepad ++** and their **FTP** client that allowed us to edit the files directly on the server. After programming some of the requirements already given to us, we reached out to Ryan Lawrence, of whom was our contact from H2O that gave us a lot of helpful feedback and answered developmental questions that were lingering.

The progress we’ve made since the beginning of the project is as follows:

* Fully completed survey system to save & update user answers to database
* Format the report page data and make modular for administrators viewing information
* Fixed chart on home page & reports page
* Added members module to home page (only shown for administrators)
* Complete login system with user management screens (add & delete users)
* Added generic profile page (further to be implemented)
* Document hosting settings for future development

For the next phase of development, what must be expanded on further depends on the intended use of this application. From our development and the from direction that Ryan has given us, this web application feels as if it should work like an employee hub. Specifically, more development could be done to the profile page such as adding the profile pictures for each employee and the ability for a user to edit their profile. This would however assume that the web application will be expanded on to not only hold one singular survey, but perhaps multiple surveys or possibly other tools. Otherwise these additions to the user management experience are not going to be necessary. The web application in its current state is complete for the purpose of evaluating employees. It does not have any notable function outside of that and a login system. If more work is intended to be put into this project, then the direction it should go is more as a user hub of which requirements will need to be defined by H2O.

Directions for how to set up the project can be found in the attached file entitled “Resources Used to Maintain and Develop Code”.