

SE 492 Bi-WEEKLY REPORT - Sdmay23-03

19th February 2023 – 4th March 2023

Project title: DigiClips Search Engine Application

Client: DigiClips

Advisor: Ashfaq Khokhar

Team Members/Role:

Aashish Komaragiri - Database analysis

Elijah Shelby - Database analysis

Grace Rasmussen - Search engine application

Khushveen Kaur Umra - Search engine application

Matthew Karmelich - Email automation

Weekly Summary

For the past few weeks, our group held weekly meetings with our client and our advisor, to talk about our progress, and to continue to advance our project. Our weekly meetings consisted of updating the client on our progress and updating each of our team what we have accomplished over the past few weeks. The meetings allowed us to check in with everyone and determine that work is still even but being completed. The meetings were a chance for those who needed help to step up and get their questions answered. For the past two weeks, our team has spent more time analyzing their code, and understanding the logistics for their search engine application. Until now, our team members have managed to work around DigiClips database, and have been able to identified the useful components that will be the backbone of our project.

Past week accomplishments

- **Aashish Komaragiri & Elijah Shelby(Database Analysis):**
 - Hosted a meeting with the client separate from the normal weekly meetings to clear up and finalize research on the database
 - Identified useful tables and elements in those tables to use in our emails
 - Discovered the tables we need to update in order to help us create better email alerts
 - Addressed a pending issue by hosting this meeting and clearing up the majority of our confusion
 - Created a document that accurately displays database information
 - Lists the tables with the important parameters that will be used in our stored procedures and put on the email alerts
 - Clearly states how a client can select options for email alerts and how that directly affects the tables we will be using
 - Created some designs for graphs that we can include in the reports using the table and its parameters and confirmed with the client the quality and effectiveness of the graphs

- Addressed a pending issue by making contact with other groups from different states in order to gain further information on aspects of our work that may overlap or be similar to their work
 - A solution to another one of our pending issues as this will help answer some of the questions that our client could not answer
- Set up new environment for the web application such as github branches based off the server code, Nodejs, NodeSource, Angular, and AWS to begin helping with the email automation
- **Khushveen Kaur Umra & Grace Rasmussen (Search Engine Application):**
 - Analyzed and created a duplicate version of the base code, to get a better understanding of how their options and help page currently functions
 - Gained access to their main search engine application, and tested the current features of the application to determine the areas for improvement
 - Analyzed the work that is being done by other universities for the search engine application
 - Created a list for necessary changes required to the options page to make it more user-friendly
 - Started working on creating different versions of their options page, that would allow it to be more user-friendly, and include more features that would improve the functionality
- **Matthew Karmelich (Email Automation):**
 - Finished testing existing email infrastructure.
 - Removed deprecated code.
 - Began networking with Colorado State University to assist the frontend team
 - Lead client meetings and assigned tasks
 - Gained access to AWS account
 - Began understanding DigiClips AWS infrastructure.
 - Removed deprecated code

Pending issues

- **Khushveen Kaur Umra & Grace Rasmussen:** It is not possible to genuinely test their base code for the search engine application, as there are currently many discrepancies in their code, along with different variations of the code.
- **Aashish and Elijah:** We know the tables of the database that need to be used but there is not a lot of information in those tables that will be of use to the reports
- **Matt Karmelich:** The code base still has a lot of depreciated code on it and the AWS server is currently inconsistent.
- **Entire team:** We managed to clear up several of our previous issues but some of our questions couldn't be answered by our Client. There are several parts of DigiClips code that appears to be unused or understood not by our Client but by different groups

o **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Aashish	Completed the database analysis and created documents that accurately describes the process of using the database for our emails	6	30
Elijah	Finish database analysis and began working on email environment	5	28
Grace	Continued understanding of DigiClips' base code. Began identifying which areas are/are not functional and need to be fixed. Began updating the Angular version currently used in the project.	6	30
Khushveen	Created a duplicate version of their base code to start making changes to their options page. Researched ideas on how their options page and the help page could be more user-friendly, along with creating different versions of the page	6	18
Matthew	Lead client meetings and assigned team tasks. Communicated with other universities working on the project. Increased test coverage of server applications. Removed deprecated code. Gained access to AWS account.	6	18

- **Plans for the upcoming week**

- Khushveen & Grace:
 - Continue updating Angular to the newest version.
 - Finish creating different versions of their options page, to increase functionality
 - Meet with other DigiClips teams to discuss the features and the implementations of the search engine application
 - Start working on the coding aspect of our project, and successfully merge our code to the main branch.
 - Start creating test cases for the different versions of the options page to ensure that is working correctly, and that it maintains its basic functionality
- Aashish and Elijah:
 - Meet with other DigiClips teams to discuss similar environments
 - Work in AWS environment to fix and implement into the DigiClips server code
 - Test implemented Code
- Matthew:
 - Implement AWS email client into DigiClips Code
 - Fix existing AWS environments