Project Charter

The overall goal for Project Illumination is to create some form of software that will be able to scan, scrape, and collect data from various sites. Said product is required to have some way to read the information in a digestible format and is also required to have a working Graphical User Interface. The requirements for this project are a functioning software that is able to scrape Social Media sites, gather information, and output said information. It is to be completed within a three-week timetable and not exceed $90,000 in cost. Things that are not accounted for within this project is: continued support after the creation of the project, as well as any functionality beyond the approved Social Media sites. We believe, for this project, that all members will be available for the stated three-week period. In addition to this, we will provide a video that will showcase how to use said software as a form of training material. The only risk involved within this project is going over the predicted budget due to programming crunch time. At the end of the creation of this project, Team Illuminate will provide a working executable and source code for the created software.

The primary issue behind the project is planning out how the team is going to go about creating this product. Upon meeting with the group, the members have concluded that they are going to utilize the Python programming language and utilize public APIs from Twitter and Reddit. This will require the team to gain access to the APIs and then create the software from scratch. This will be done by the programming team with our group, and it is stated that they will create one overarching GUI that will be able to run through both of the Social Media frameworks. For the Reddit framework, they will create a process that will run through the authorization tokens given to one of our members (David Singer) and access the Reddit landscape to gather information. By requesting for information [entering the keyword to be searched], the API will return with 200 if everything is working properly, and then give the user the 50 most popular posts related to the keyword. This is exported into a csv file and includes subreddit information, title to the post, contents of said post, upvotes, downvotes, and total score of the post. The other program we are scraping is twitter. Utilizing a similar system as the Reddit scraper, in which a generated code is used to gain authorization, the program can scan Twitter posts for the given keyword. Afterwards, it will output 500 tweets related to the keyword and pack them into a csv file. Beyond this, there are no other planned functionalities expected to be incorporated within the project.

This project has the sole stakeholder of Maurice Dawson. He has provided the deadline of three weeks, in addition to budget stated previously. In addition to this, the key personnel behind this project are the 8 members of Team Illuminate.

The project is organized with the format of an eight-man team. The project manager behind this project is Jakub Urbaniak. He is responsible for the management of the other members of the team that are to be split into three other groups. These groups are the development team, testing team, and analysis team. The development team is made up of four members: Andrew H., Tyler W., David S., and Michael K. The testing team for the project is made up of two members: Dylan B. and Joseph K. And the final member of the team is the sole member of the data analysis team, Andrew S. The development team is responsible for developing the software that has been requested of the team. The testing team will make sure the software is up to standard and can be used effectively. And finally, the analysis team will be responsible for quality control.

For this project to be considered a success, Team Illuminate will be required to create a working program that is able to output data requested of the previously mentioned Social Media sites. This software must be delivered in an executable form, as well as having the source code provided.