Final Project Submission Guidelines

For project requirements, please carefully review the **Final Project Overview**. Details regarding expectations for "level of challenge" for data source access and volume are specified in the Overview.

As your final set of deliverables for the Final Project, you will prepare and submit a 2-4 page document and a 1-3 minute video. The document should be submitted in PDF format and the video must be available as a web link and configured to allow access to all members of the SI 507 teaching team.

Several elements of your final Project Document are the same as elements of your Data Checkpoint. If the information has not changed you are free to re-use those components of your Checkpoint for your final Document.

Project Documents

Readme File for Project (1/4 - 1/2 page)

- A README file - this must be a .txt file. Word or PDF is not OK.
    - think of this as a docstring for the whole project from an end-user perspective. What are the interactions? I.e. What prompts will be given to the user. What are the potential answers? What does the program do in response?
    - be sure to emphasize any special instructions or API keys needed to run your program.
    - Be absolutely sure to list any required Python packages for your project to work (e.g., requests, flask). You do not need to name built-in packages (e.g., random, json)
    - Specifically list in this readme how your Network (Graph) is organized. What are your nodes & what are your edges.

Readme File for Data sources (1/2 - 1 page) (must be .txt file)

- For each data source
    - origin, including URLs for data and documentation
    - format(s) (e.g., JSON, CSV, HTML)

- brief description of how you accessed the data, and whether caching was used
- summary of data including number of variables.

Python Code for Data Structure

- A stand alone .py file and/or json files that are needed to construct your graphs or trees from your stored data using classes (or some other method). this hsould have all the import statements as needed.
- Please call this file 'DataStructure.py'

Python Code & local data for Project

- Please provide the code needed to run the file. Please provide any files needed for your code to run. this would ideally be a .py

Summary of Project (0.5 to 1 page)

please provide a pdf or word doc that describes what your project is. This is much less technical and much more high-level than your Readme file. This should include any 'findings' or things you noticed about the dataset. This should contain whatever narrative you might use to tell people. This is not graded for accuracy. This is likely highly redundant with Demo Video in content.

Demo Video - a youtube link or an mp4

- Show how a user would interact with your program, demonstrating, ideally, 4 different ways a user can interact with your data
  - i.e. a user should be able to search for a node or type of node in your network. At this point they should be able to do 3 additional things. Types of things that might be forms of interaction are :
    - get additional data about that node.
    - get related nodes
- The interactions can simply be a text user-input. Flask or other graphical interaction is not required.
- Either provide narration or in-video text descriptions to explain what is happening

Rubric

Component	Requirement	Points
Readme Project	Readme is a .txt file	5
	README contains description of how user interacts with program	10
Readme Data	Readme is a .txt file	5
	Readme includes data sources	10
	Data access techniques are clearly described	5
	Data summary is provided and relevant data fields are described	10
Data Structure Code	Required .py and .json (or other data files) files are provided for generating	5
	py files are appropriately docstringed	5
Project Code	a .py file & data file(s) are submitted that will launch and run the project as shown in the Demo vide	15
Demo	Link to demo video or actual mp4 is provided and works	5
	Application capabilities are described and demonstrated clearly	5
	Four or more different user selections are demonstrated	25
	Data presentations look good and make sense	15
	Total	**120**