Project: Phase I Report

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1 Project Overview and Goals

The plan is to create a system of "tags" users will add to their documents when uploaded to the database. Our feature will be to use these tags to build a visual graph which can then be used to search the database for documents containing those tags.

2 Planned Features

1. Tag creation

2. "Clean" UI

3. Data structure for document tagging

4. Maximum match algorithm

5. Closest match algorithm

6. Graph visualization

7. Graph traversal methods

3 Projected Timeline

By end of the semester: December 6th - 8th

4 Tools Being Considered

1. SQL Alchemy

2. Python

3. DASH

4. REACT

5. Plotly (Python Library)

6. Trie

5   Team Members and Skills

1. Dan
   (a) Experience
      i. Python
      ii. GitHub
      iii. Mark Down
      iv. Research
   (b) Some Experience
      i. HTML
      ii. Front end development
      iii. Latex
      iv. Bootstrap
      v. Flask

2. James
   (a) Experience
      i. Front end development
      ii. GitHub
   (b) Some Experience
      i. Python
      ii. SQL
      iii. Bootstrap
      iv. Flask

3. Taylor
   (a) Experience
      i. Python
      ii. GitHub
      iii. Graph implementation
      iv. Graph traversal
   (b) Some Experience
      i. Flask
      ii. SQL
      iii. databases
      iv. HTML
      v. CSS

6 GitHub Repository Link

https://github.com/JamesL-dev/VOiC-GSearch