### **CS 242 Final Project Proposal**

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### 1. Abstract

## 1.1. Project Purpose

What is the purpose of this project? What problems do you want to solve?

The purpose of this project is to set up a mini Facebook. The problem I am to solve is to build a platform in order to connect people through the use of a graph database.

# 1.2. Background/Motivation

Why are you interested in doing this project? Have you worked on something similar before?

I want to learn more about using graph databases and also learn more about preforming analytics on the data available in the website from users. I have not worked on anything like this before.

## 2. Technical Specifications

2.1. Platform: Web Application

2.2. Programming Languages: Python, HTML, CSS, Javascript, neo4j querying

2.3. Stylistic Conventions: snake\_case

2.4. **SDK:** Flask

2.5. **IDE:** PyCharm

2.6. Tools/Interfaces: Web Application, Neo4j Database

2.7. **Target Audience:** People looking for an interface to share views

### 3. Functional Specifications

#### 3.1. Features

- 1) Log in page and create user profile
- 2) Being able to share links with people based on username
- 3) Being able to build statistics such as list of closest people, what does a person tend to share more, what are person's interests?

## 3.2. Scope of project

The result of this project is very dependent on the number of users using the website. Hence, an issue that I foresee is that with limited number of users, we will not be able to show concrete results. This would mean artificially creating data.

#### 4. Timeline:

### 4.1. Week 1

- Create Login and Sign Up page.
- Create basic user page displaying information of user.
- Be able to interact with the graph database by letting users make a post.

### 4.2. Week 2

- Enable users to make posts to specific other users.
- Create a tab for the user that enables him/her to view the posts shared with him/her.
- Create a tab for users that enable them to view posts shared by them.
- Create a tab that enables users to see public posts.
- Start building statistics about users such as the users they share posts most with.

#### 4.3. Week 3

- Develop statistics about the kind of posts that users make. This will be a new tab that shows them the topics of the posts made by them.
- Provide link suggestions based on user profile.
- Develop a score of how close a person is to another person and use that to generate "friend suggestions"

### 4.4. Week 4

- Make use of graph database to develop additional features.
- Build new statistics.
- Clean up UI and project.

### 5. Future Enhancements

Additional features could be actually creating a friends database for each user. I hope to carry this project on and build it into a an actual usable site.