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*Capstone Project Proposal*

Brief Summary of the Project:

For our capstone project, we have decided to work on a new social-media platform. A user of this platform wouldn’t have a profile, just their name and a picture. The focus would be on participating in groups that people are free to create and invite others to. These groups would allow for creating events, having discussions, posting photos, and more! In addition to this, there would be a messaging component so people that are not in groups with each other could still communicate through this platform. The academic focus of the project would be on networking, graph theory, databases, and cryptography (passwords).

Description of what will be difficult:

The core difficulty of this project lies in supporting the wide array of functionalities the platform will offer, such as: calendars and event scheduling, photo uploading to the database, discussion threads, group creation and visibility, user searching (through other users as well as past discussions), and account creation and deletion (considering graph theory). In addition to this, we will need to learn more about and be able to execute: the storage and efficiency of large data sets, communication over the internet, storing and accessing from a database, and ensuring passwords are properly encrypted.