**Group Names:** Andy Li, Yufeng Liu, Oscar Chong, Excel Espina

CSC 33600 Introduction to Database Systems

**Team Name:** ‘ OR 1=1 ;--

The purpose of this software is to serve as a hub for users to recruit for Hackathon competitions. However, it is possible for this to be generalized as recruitment for any event/task. Registered users will be able to customize their profile to list off certain qualifications they have (proficiency in programming languages, knowledge of frameworks, etc.) and other standard information such as location and contact information. In addition, they can list off past accomplishments they have done (projects/past Hackathon entries) with links to these accomplishments for other users to verify that the user has actually completed these tasks. Finally, the main draw to this software is giving users the ability to create recruitment posts that act similar to having someone join a lobby. Users specify criteria that they are looking for (such as knowledge in C++) and any user that meets the specification can be recruited.

This software is interesting because these types of recruitments are usually done when people have already registered for a Hackathon and form teams during the competition. However, most teams that plan ahead before a Hackathon are generally groups of friends that know each other and communicate frequently. With this software, one can form a team with strangers and plan out certain projects they could work on for a Hackathon and plan out which Hackathon they can go to as opposed to doing all this thinking during the event.

Existing software that could be considered similar to this would be Slack. This is a collaborative software commonly used during Hackathons for participants to stay updated with announcements or communicate with each other. However, this type of communication is done through channels that are made either public or joined through a specific URL or invitation. In this sense, the software could also be considered similar to Discord where users can join a channel through an invitation and be able to interact with other users in that channel. For the most part, our software aims to incorporate some level of communication for users to better organize their groups. However, it would be expected for users to rely on collaborative software they may be more familiar with for communicating after forming a group such as Google Drive and GitHub.

**Schemas:**

User(userID, password, firstName, lastName, email, phone#)

Skills(name, type)

Profile(userID, avatar, skills, accomplishments, location)

Recruitment(host, members, description, requirements)

Accomplishments(userId, accomplishmentName, descriptions, verification)

**Constraints:**

Host ⊆ User.userID

Members ⊆ User.userID

Profile.skills ⊆ Skills.name

Recruitment.requirements ⊆ Skills.name

Profile.userID ⊆ User.userID

Accomplishment.userId ⊆ Profile.userId

Profile.accomplishments ⊆ accomplishment.accomplishmentName