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Abstract—The abstract goes here.

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I. INTRODUCTION

IN today's day and age where technology keeps changing and new ideas are born on a daily basis, there are still a lot of holes left to plug in various areas of computing. There has been a tremendous success of mobile apps in the areas of social networking and location based services, and there have been quite a few that combine these 2 disciplines. Our project provides a little a twist to these 2 disciplines to make it different from other apps, and make it better for people on the go.

A. Project Description

Our project is location based social network. There can a lot be done with a users location, and thus we chose to use this location data to group a user within a zone with other app users. The size of the zone is determined by the number of other app users around. While in a zone, the user can then send messages to others within the same zone and discuss and what's happening near by. This app would help users understand if there is something special on nearby, and also help understand the events in the zone.

B. The Need

The main use of the app would be for the social networking and getting to know what is going on around you at a given time. There have been a number of other mobile apps that have gained traction lately that relate to social networking and location based services, but none quite have a good blend of the 2 that can be used on the go.

The use of a location service where a user is automatically allocated to a zone they are in based on "hotspots". This way a user who is new to the area can instantly tell what is going on at the

moment based on where other app users are and see if there is anything special going on.

Another noteworthy use of the app is for getting a live feed of the current event in a "hotspot". For example, for a college football game, there could be a large number of users in around the stadium that form a zone and everyone within that zone can talk and discuss about the game on that thread. Users are stored within a zone 24 hours after they have left it if they wanted to discuss the thread for a little while after the event too.

II. RELATED WORK

III. GOALS

For our project, we had 3 main goals that we wanted to accomplish

- Ability for the user to be assigned a zone automatically based on location: We wanted to make sure that the user would be allocated into their zone based on where the other app users were. This further determined zones for future users to connect to. This was the heart of the project.
- Users should be able send messages to others in their zones: The entire point of being allocated in a zone is for the users to see what others around them are discussing. Since this is a part social network, it is integral for the user to communicate with others.
- Setup a centralized server with Zone messages: Our project will rely on a centralized service that a user can GET and POST to. Joining a zone, downloads the messages on to the users device.

IV. SYSTEM MODEL AND PROBLEM STATEMENT

A. System Model

B. Problem Statement

Terms, definitions, components

V. APPROACH

A. Idea

B. Planned Architecture

C. Implemented Architecture

VI. IMPLEMENTATION

VII. RESULTS

VIII. CONCLUSION