

Wander

Team 27 - Project Charter

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Problem Statement

Everyday, people walk past each other, possibly multiple times per day, without ever knowing that they crossed paths. Crossing Paths is a mobile app designed to utilize location data of its user's daily routes and "match" people who cross paths every day. After the app matches two people who have crossed paths a certain number of times and who have similar interests, it notifies them of a match and allows them to chat with one another. Along with this, the app will keep track of long term anonymous data for certain areas (where many people go, for how long, etc.) and generate a heatmap of popular locations in certain areas. This app will work based on user consent when sharing location data and will allow the user to specify when he or she wants information to be shared and for how long.

Project Objectives

- Uses location data to determine when users cross paths
- Collects the data in a database and compares the paths of different users
- Detects when two users are regularly in the same place at the same time and matches them
- Messaging with people who you match with
- People can have preferences that limit who you match with
- Shows where you crossed paths with people you matched with
- Generates statistics for users/areas from anonymous location data
- Location services can be turned on and off by users with a quick toggle/widget

Stakeholders

- Users: People interested in meeting new people and getting statistics about their daily routes
- Developers:
 - Ali Gaildon
 - Brandon Schipper
 - Colin Cross
 - Jordan Segalman
 - Kyle Booth
 - Lucas Tao

- Project Manager: Syed Hussain

Project Deliverables

- Android application
- Python will be used for data analysis (generation of the heatmap of popular locations/user and area location statistics)
- SQL Database for securely storing user information (account and location information)
- Algorithms for efficiently determining who matches