Technical Proposal

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User Authentication

We intend to use Firebase to do following:

- Allow sign users up an log in to use our service, using regular expressions to verify that they are using an UW email

- A phone number, to allow SMS messages to be sent, notifying the user that their walking partner has/has not confirmed.

- Information to build a basic profile, including user name, photo, and biography.

- The ratings other people have given this user. IE how pleasant was their walk, were they on time, ect.

We also intend to allow users to login using Facebook, but that will be one of the last things that we implement.

Map

We intend to use the Google Maps API to achieve the following:

- Create the map that the user can see where other people are offering their umbrellas

- Use location services to convert an address to longitude and latitude to enter a new point onto the map.

- Use location services to allow users to use their current address to create a new point on the map.

- While the user is walking, record their walk, and be able to save the map in case of emergencies - this can only really be done if the user is logged in on their phone.

SMS

We are going to use TextBelt to be able to send users SMS messages to let them know if the person who has an umbrella has approved their walk, and potentially to allow reminders.

AngularJS

We intend to use Angular for:

- Fill out the form for a new umbrella to be shared.

- Build a user's profile page with information from FireBase.

- Filter items from the map by time, radius, ect.

Security

Some additional security features we wish to implement:

- Do not allow users to log in after a certain time of night.

- Create a emergency button/page that will contact 911 or Campus Security.

- If there is an emergency, push the map of their walk to the main page, with some kind of notification.