path mapper

Created by Team Breadcrumbs
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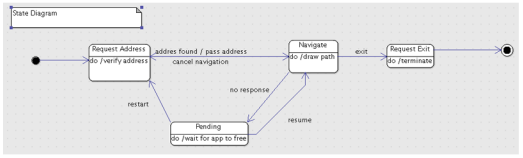
Specifications

Features
· **Search** function to choose from a current list of database stored location which a user will choose from as desired by them.
· Able to **Navigate** the user with a previously mapped path to their destination
· Allows the user to **Create** a path to a destination by walking to that destination
· Stores geo-points collected during location tracking to a external cloud based database

Constraints
· Scheduling
· No external feedback from clients
· Lack of testing devices
· Location use bound to external use
· Processing power of device
· Project Scope
· DatabaseIntegration
· Geopoint Oversaturation



Introduction

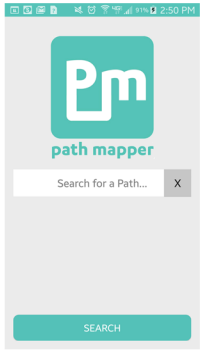
Path Mapper was originally an idea for an app that would help students find building and classes at the University of North Texas (UNT), by providing a path that they could follow to reach their destination.

Abstract

Path Mapper is an android mobile application that creates a map of walkable locations that services like Google Maps have not charted before, such as campuses, theme parks, etc. Once these places have been charted, the application can provide paths from location to location to anyone who visits the previously mapped area.

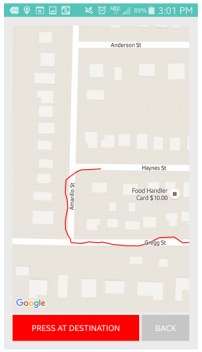
The application will utilize the mobile phone's location to create paths that users can submit; using graph theory, paths will eventually be built to create a working map of the locations. Once these maps have been built, our algorithm will find the shortest walkable distance and help the user arrive at their destination.

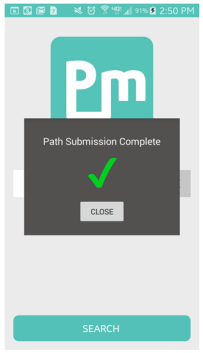
Examples



From the main app screen, users are able to search the database for their destination

If the user's path does not exist, they can create it.





Once complete, users can submit their paths and navigate