D2D – Nearby Driver Communication Application
School of Computer Science and Engineering

Student: Ng Wee Liang    Supervisor: Dr Ta Nguyen Binh Duong

Empowers users with a platform to communicate over traffic disputes, notify others of potential road dangers and keeping up to date with the latest traffic information.

Features
Search Nearby Drivers
Direct Chat Messaging
Route Search
Traffic Congestion Map
  - Road Incidents
  - HDB/Mall Carpark
  - Traffic Camera

Proximity Search w/ GeoHash
  Locational coordinates are retrieved from device GPS/WIFI then Converted to GeoHash
  8 Adjacent Neighbor Hashes representing cardinal directions are generated to derive nearby user cardinal direction
  Device sensor is used to derive device cardinal orientation to compute nearby user’s physical direction from current user

Technology used:

www.scse.ntu.edu.sg