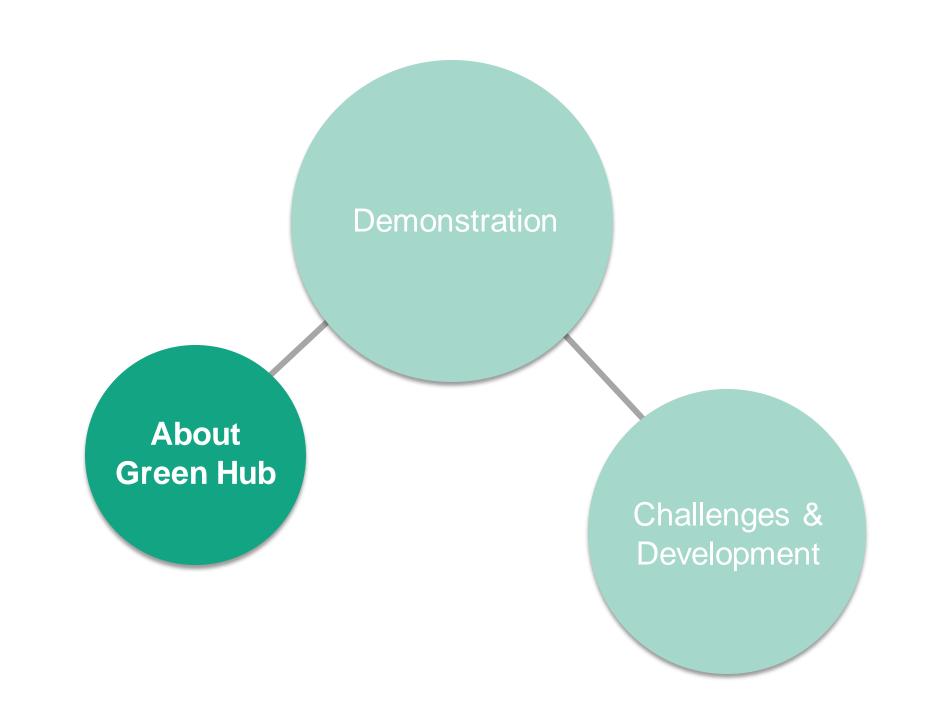
Green Hub

Team: Green Manager

Meng Chen, Weike Fang, Yunxiang Yan, Ziang Tong



We aim to develop a ride-sharing app for Notre Dame students that allows users to understand how their everyday behaviors impact the environment through reducing carbon footprint.

Project Overview

Campus-wide platform

Money-saving and Safe

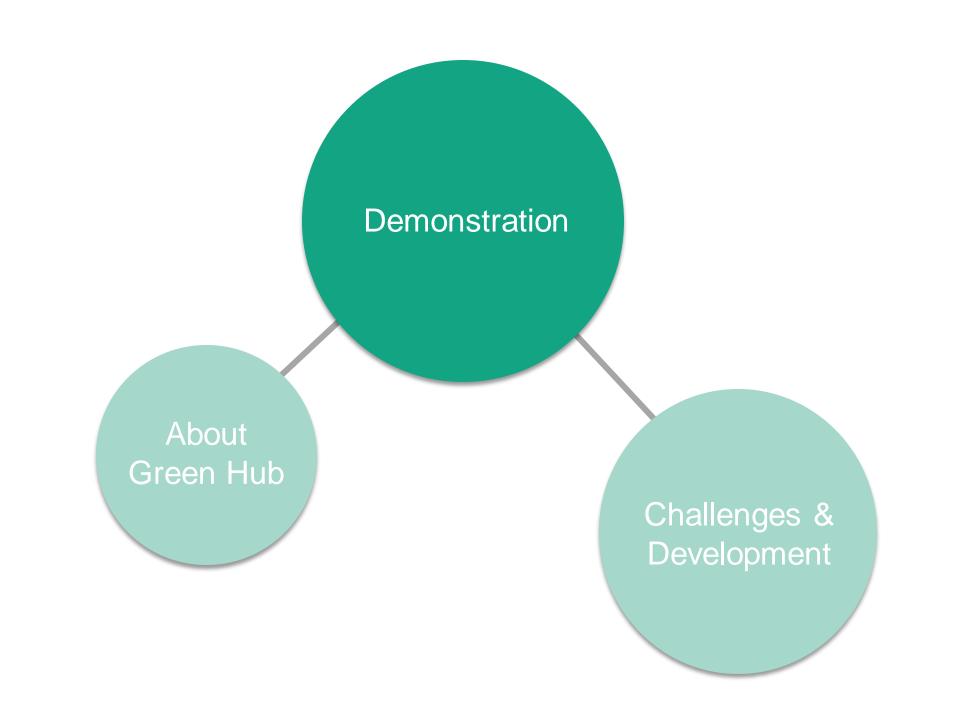
Free and Open Source

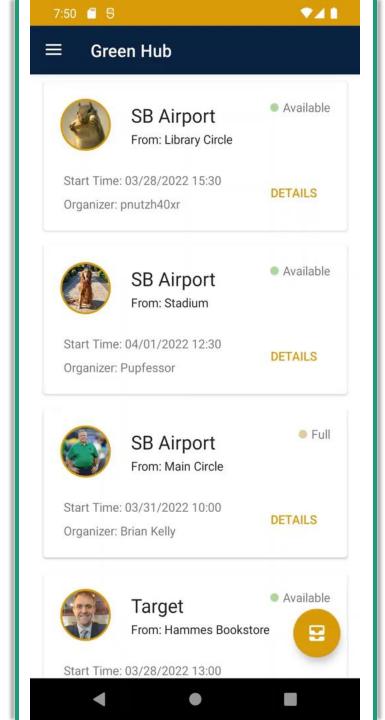
Green - Sustainable

Hub – Community





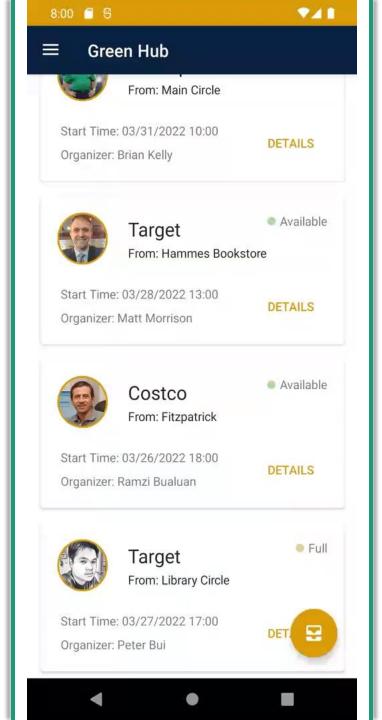




Demo I

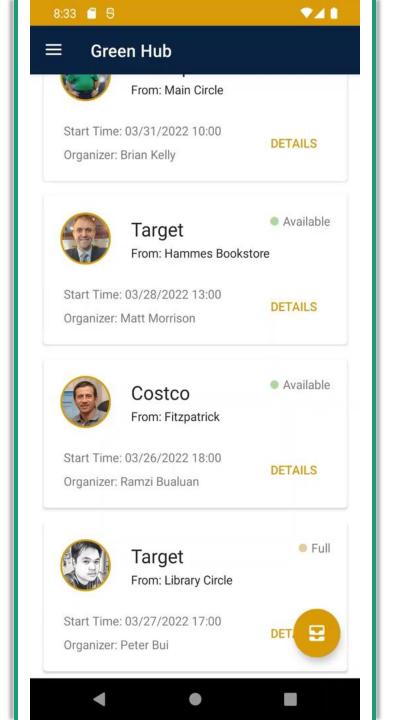
Sunny is going to South Bend Airport to fly home for spring break.





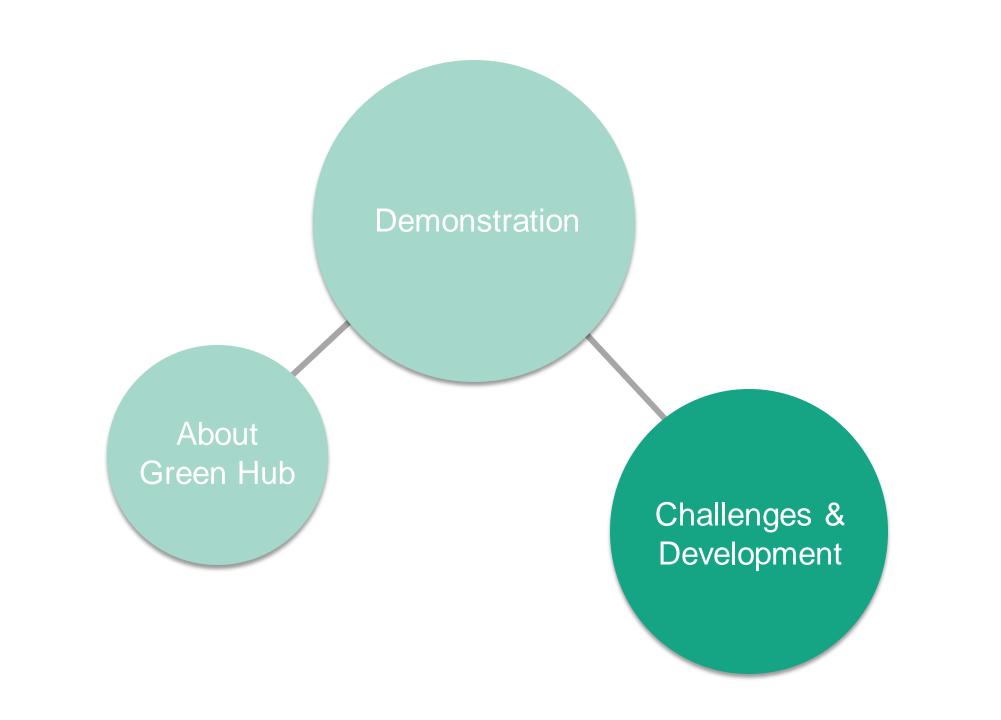
Demo II

After returning to campus from the break, Sunny seeks to get some snacks from Target.



Demo III

After taking Peter Bui's exam, Sunny wants to hang out with her friends at Howard Park for a nice Friday afterschool party.





Technical Merit

Full stack development

Embed external API (Google Map)

Carbon footprint estimation with EPA data¹

1 mile shared ride = $-400g CO_2$

Intelligent matching



Android Studio, SQL, Java, Kotlin, HTML & CSS



Customized Markers and Polylines catering to our design.



Dynamically update carbon emission reduction.



Match people with close destination to maximize usability.





API Versioning

Java Class Hierarchy

User Friendly

Comparative advantage





Rides are rewarded with Green Energy, which can redeem for gifts



Develop more services such as environmental protection education and daily tips



Support web counterpart & connect with phone calendar apps

Thank you for listening!