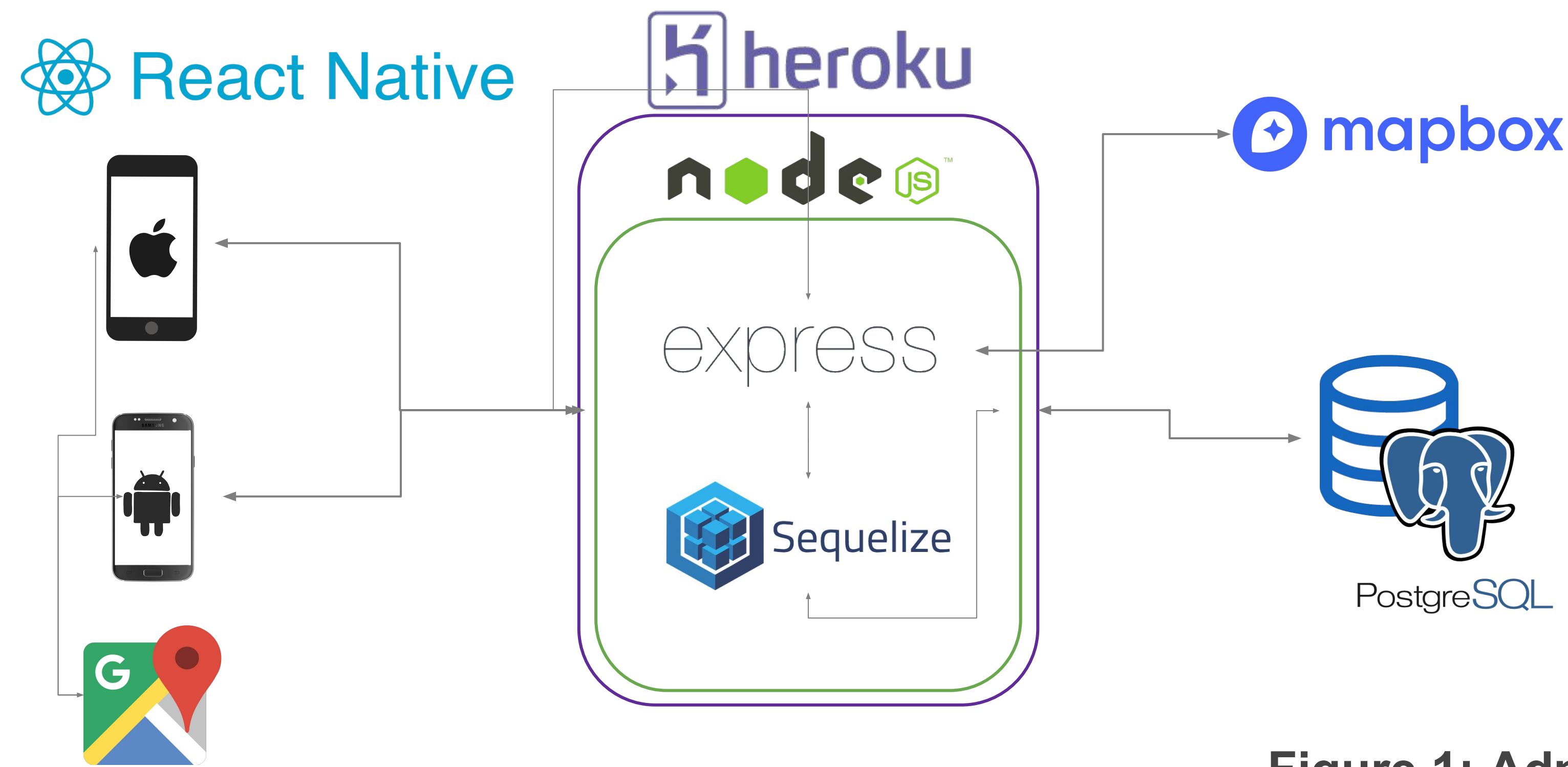# Ride Surfer

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Abstract

In order to fight the challenges of pollution, traffic, and population increase, cities will need better transportation options. To solve this we've implemented a convenient transportation app that connects drivers and passengers that are going the same direction via pre-arranged or on-the-fly means. Our solution provides the ease of ride-hailing apps while being as efficient as public transportation.

System Architecture

React Native

heroku

node js

express

Sequelize

mapbox

PostgreSQL

Google Maps

Use Case

1. Open iOS or Android App
2. Input desired route
3. View potential matches
4. Send/Accept Ride Requests
5. See live locations
6. Get directions to meetup place

Key Features

- Send/Accept Ride Requests
- Directions
- Route visualization
- Navigate using Google Maps
- Live locations
- Save home/work
- Pre-scheduled rides
- Messaging
- Sign In with Facebook
- View Facebook Profiles
- Ratings
- Environmental Stats
- Push notifications
- Admin web view
- Dark Mode
- Forgot Password

Figure 1: Administrator Dashboard