API Research Document

The below key designates which APIs are 3rd Party outside the architecture, within the architecture, and Nuvven made APIs.

3rd Party APIs Outside Architecture 3rd Party APIs in Nuvven Architecture Nuvven APIs

Features:

* UI Library for styled components. React Native Paper
* GraphQL for querying database (Retrieve user data, vehicle data, customer data, and job data) which can then be displayed for the user.
* App Navigation using burger bar. React Native Navigation
* Phone camera for taking pictures of vehicles. React Native Camera
* Take payments from customers. Payment Gateways
* Customer signatures at delivery/collection. React Native Signature Capture, React Native Signature Canvas
* Estimate cost of damages. As I understand it, could potentially use Nuvven’s Fleet Management (Damage Assessment) to assess what damages are present, and then use 3rd Party API Vehicle Repair/Garages (Repair Quotes) to estimate the cost of those damages.
* Live map for tracking, employees and cars. Use Nuvven’s Vehicle Telematics (Vehicle Tracking) to get the location of vehicles and the device’s location in conjunction with React Native Maps to display locations on live map.

In summary, no new APIs need to be made for the companion app. The resources found online with those already available should be adequate to perform all listed features.

Links:

* React Native Paper - <https://github.com/callstack/react-native-paper>
* React Native Navigation - <https://github.com/wix/react-native-navigation>
* React Native Camera - <https://github.com/react-native-community/react-native-camera>
* React Native Signature Capture - <https://github.com/RepairShopr/react-native-signature-capture>
* React Native Signature Canvas - <https://github.com/YanYuanFE/react-native-signature-canvas>
* React Native Maps - <https://github.com/react-native-community/react-native-maps>