Trucking Utilization Mobile Application

David Ventresco, Jeffrey Paradis

Sponsers: Brian Widell, Dora Cserna-Nyiro

Problem

- Truck drivers are always on the go and they need a way to keep in contact with their company
- Cumbersome to determine cheapest fuel prices near them
- No automation when determining nearest job opportunities

Goals

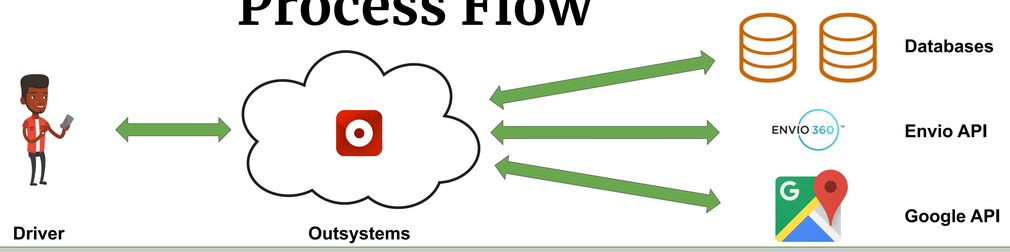
- Create a friendly UI for drivers to easily navigate the app
- Notify drivers when available jobs are in their area
- Allow drivers to know where discounted fuel is nearby
- Give driver's knowledge of their purchases and how much they are authorized to make

Technology Used

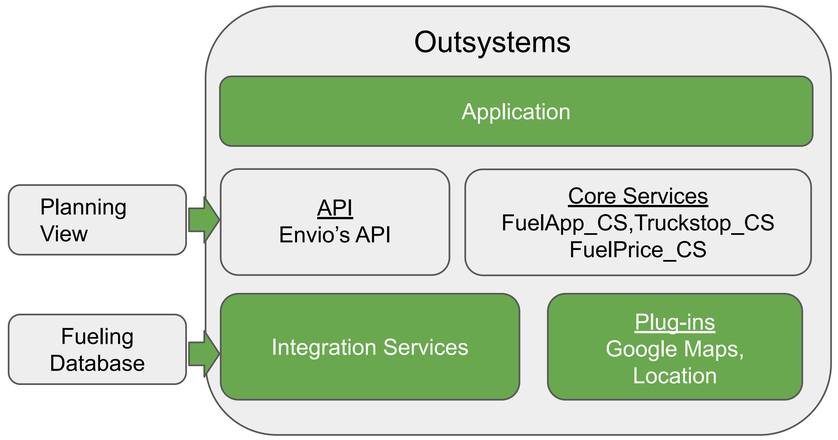
Google Maps API, CSS, IOS, Android

Outsystems, JSON, REST API, JavaScript

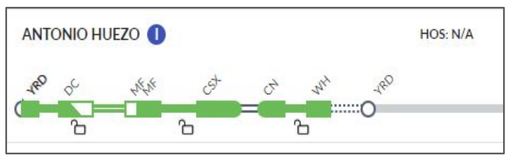
Process Flow



Module Architecture



Back-End Screenshots



Sample Driver

Sample Route

Effective Date	Truckstop	Pump Price	Your Price *	Discount
2019-04-17	Clean Energy Wilmington	3.899	3.829	0.05
2019-04-17	SC Fuels #165	3.899	3.835	0.05
2019-04-17	SC Fuels #130	3.899	3.839	0.05

Fueling Database

Solution

- Design application to create a "mobile office"
- Create customized user profiles for individual drivers
- Connect application to third party database containing discounted fuel pricing
- Connect to Google Maps to determine closest fuel stations and location on map
- Extract JSON files from Envio REST API to retrieve available routes
- Display route opportunities in current area
- In-App Accept/Reject of routes near driver
- Connect to Envio database to show drivers details about their purchases and balance remaining on account

Future

- Profile fueling stations based on service attributes
- Make application bilingual, possibly trilingual
- Implementing push notifications, not just in app notifications
- Show driver wait times at terminals and customer facilities