**Gas station pricing app**

Requirements:

* Get current gas price for a specific location (chosen by the user, or predetermined by the app maker)
* Show difference between average price from 2 weeks ago (or another range of time) to current price (for specific gas station, or provincial/area average?)
* Option to add more gas stations?
  + Search bar for gas stations, or browse a certain area (map) for a gas station

Non functional requirements:

* Available 24/7? (hosted on a server perhaps)
* Easy to look at list of gas locations
* Easy to add/remove locations
* Not too frequent notifications, perhaps every hour
  + Same with updating the info for every gas location
* Keep track of current location?

Usability requirements: on a mobile device, tablet, any mobile os

Extras/ Nice to haves

* “Last updated” time
* Option to choose between normal grade, extra good grade, diesel etc
* Distance to gas station from current location
* How busy the gas station is? (Google maps maybe?)
  + Or calculate based on the average, is it all time low or close to, in past whatever amount of time (could be forever) and calculate # of possible people going to be there (or roughly)
* Make it known if there’s an even better location (better price, same area-ish) nearby
* Optimal time to get gas (average, everyday or a particular date)

Target audience: people who own cars, drive, or have to fill up gas on a regular basis, and want to save money while doing so

Cheap Charlie

Needs

* Cheap gas locations
* Doesn’t want to go to far for it (from work, or from home)
* (not too important) Wants to maximize air miles / points card for gas

Habits

* Listens to the radio to see when/where cheap gas is at
* Goes at the optimal time (usually at night when the gas is cheaper, or depends on location) to get gas

Pain-points

* Misses the ‘good’ times sometimes (argh, I should’ve went yesterday/the day before!) because he doesn’t/didn’t know about it
* Didn’t know that down the street from his usual location, there was a gas station with an even better prices

Takeaways

* List cheap gas locations for a particular area (not just prices for one gas location)
  + Give the cheapest one that’s also relatively close by (if it’s cheaper than the rest)
* “Gas locations close to me” feature (list them, find cheapest among them)
* List if the gas location has air miles, points cards, etc
  + List the company it’s under
* Give warning in advance for cheap gas prices as notifications
  + Or give prompt ‘here are some gas locations right now, offering good prices!’
  + Location based, (current location) or an area you set it to
* Give an ‘average’ time of optimal price
  + Or better yet, list the exact time it will become optimized (i.e. go down in price)
* Give notifications where gas is relatively cheaper to others, or are known to consistently be
* If a gas station nearby shows even better prices, list that as well (as a notif)

Technology stack