**Problem Statement “Know your medication choices”**

**FDA Drug Data** [https://open.fda.gov/index.html]:

* Adverse events
* Enforcement
* Labeling

**Preliminary Name:** “Rx Choice**” or** “Informed Rx”

**Problem:** Many prescription medications have serious side effects, causing “adverse effects” that are reported to the FDA. Prescription medications may also be recalled by the manufacturer for various safety issues. Users should have an easy way to research prescription medications to see the side effects, reported adverse reactions, and any recalls. Users (patient, consumer) should be able to go to a single web site to research safety information of prescription medications and make informed choices on which prescription medication to choose based on history of adverse effects, label warnings, and recalls.

**Features:**

* Users must be able to search drug name (brand and generic) - REQUIRED
* Users should be able to access all information on any mobile device - REQUIRED
* Users should be able to view warning labels by drug name - REQUIRED
* Users should be able to view recalls by drug name - REQUIRED
* Users should be able to view adverse events by drug name reported over time (frequency?)
* Users should be able to view a rating of drug manufacturers based on recalls, etc.
* Users should be able to view the location the outbreak occurred in (NOTE: Current FDA datasets includes only country data and manufacturer location data)
* Users must be able to compare the generic to the name brand (for side effects, recalls, warning labels)
* Users must be able to identify alternative drugs for the same medicinal purpose
* Users should be able to create a personalized profile to view recommended drug(s) – STRETCH GOAL
* Users should be able to check with their insurance provider to assess coverage/co-pays for various drug options– STRETCH GOAL
* Users should be able to scan the prescription drug UPC code instead of entering the name manually– STRETCH GOAL

**Other Potential Non-FDA Data Sets:**

* USDA – TBD
* CDC – TBD
* EPA - TBD
* OTHERS – TBD (FEMA, DOT, etc.)