

## Product Vision And Strategy

The purpose of Insider Unlocked is dissemination to the general public. Just this year Insider and many other news organizations have identified at least 50 members of congress who've failed to report their financial trades as mandated by the Stop Trading on Congressional Knowledge Act of 2012, AKA as the Stock Act. We hope to build a platform that takes the publicly available information regarding what assets congress are purchasing or selling, and format it in a manner that is much better then the original PDF source we retrieve it in. By doing this we envision us battling the wrongdoings of insider trading within the government and creating an equal playing field for all investors.

The minimum viable product (MVP) is a hosted REST API (application programming interface) which includes CRUD (Create, Read, Update, Delete) functionality. Our REST API will include three endpoints: senator stock transaction data, senator profile data, and stock ticker data. The senators' stock transaction endpoint will be able to retrieve stock translation data from our database, create new entries, update existing entries, and delete entries. The senators profile data endpoint will allow you to get all data for a certain senator, add new senators information, update existing senators information, and delete senator information. The stock ticker data will be populated with general stock ticker information for tickers that appear in the stock transactions, and this endpoint will also have CRUD functionality. We will host our REST API using [Heroku](#) which allows for free hosting. Documentation will also exist explaining all the endpoints in our API.

Our tech stack will include Python, Django (Web Framework), and SQLite (Database). Our code will periodically scrape new data from the [United States Senate Financial Disclosures \(eFD\) website](#), using python. The script will run periodically using cron jobs, we will use a python library called [django-crontab](#) to achieve this functionality. We will be using a python library called [django-rest-framework](#) to achieve rest functionality while using Django. Django will bring everything together to create our REST API, by using django-crontabs to periodically run a script that updates our database on SQLite. We will host our API using [Heroku](#), as it is a free option. We will use jupyter notebook which is a data analysis framework in python to visually see our data using graphs and tables.

After achieving our MVP, we hope to add one extra endpoint to our API, and add a frontend component to the website using HTML/CSS, Javascript, and React. The extra endpoint would be scraping data from the [United States House of Representatives](#), which would give us data of stock transactions from all of congress. Our other addition to our project would be the frontend component which would allow the website to be more accessible to the general public.