**Team RanQuoR-Turkey**
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SoftDev Period 07
December 05, 2018

**Purpose**
This website displays:
- Updates for stocks chosen by the user
- Weather for locations chosen by the user
- Headlines from The Guardian from news categories chosen by the user

It provides a customizable daily report.

**Components**
Flask Routing – Allows user to view the API data presented in the webpage
Jinja2 Template Engine – Used to display data by accessing SQLite database
Bootstrap - Open-source front-end framework for designing websites to make this site look nicer
Font Awesome - Another open-source font used to improve web design (for weather)
SQLite Database – Store data on users' stock choices; vestigial structure from development decision making.
JSON - Functions turns API responses into dictionaries and parse through that data
urllib - Retrieves requests from remote APIs
Alpha Vantage API - API used to conduct searches for stock names
IEX Trading API - API that returns stock information with not quotas
The Guardian API - API that returns article links and their headers from The Guardian
OpenWeatherMap API - API that returns data on weather (temperature, humidity, etc.) based on a query of a zip-code/location name
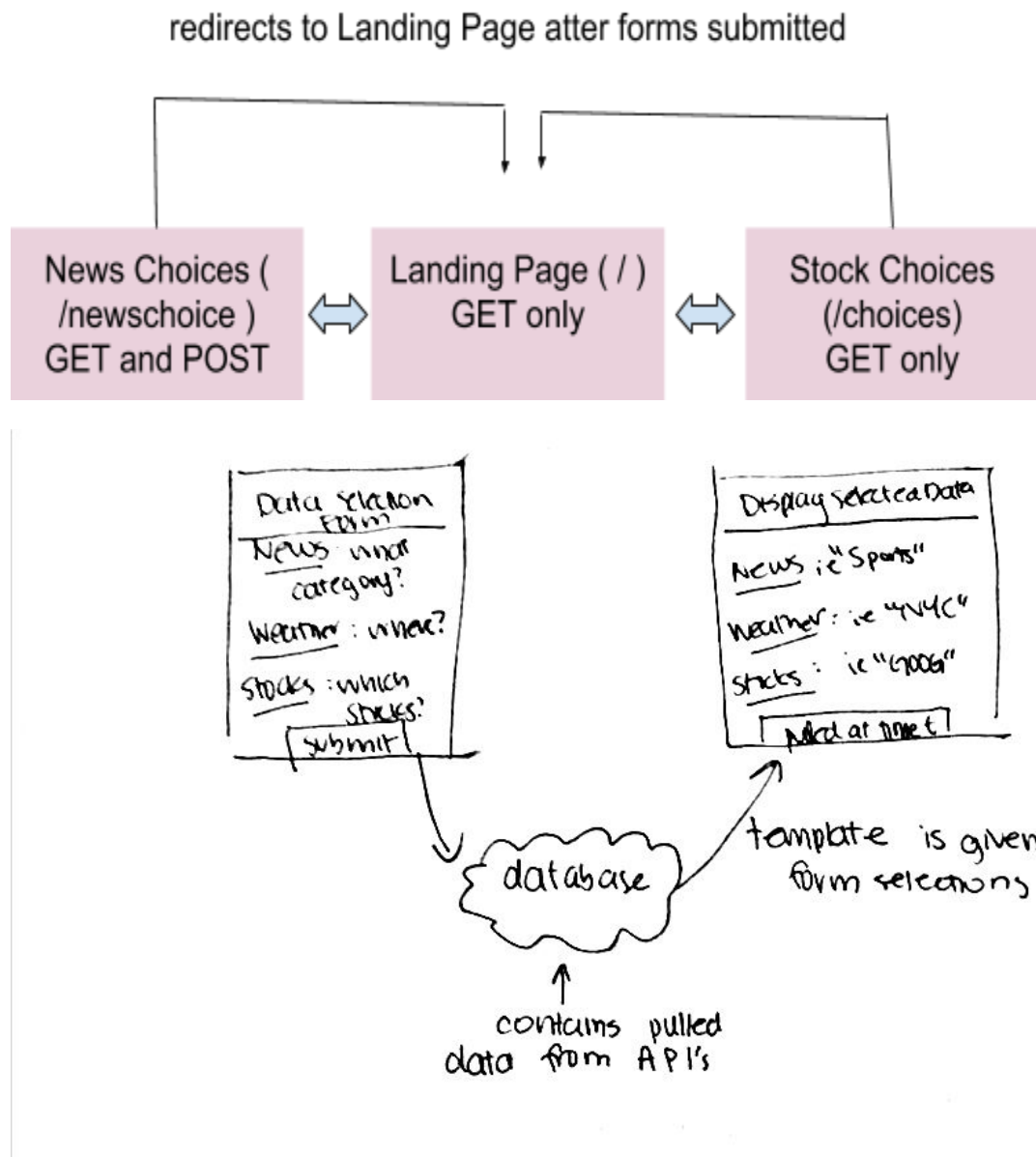IPAPI - API that returns location of user's IP address. Used to default weather location
Util - to modularize code. api_to_db(only used for stock), faciliates operations on databases; apiOperator(only used for stock), faciliates operations on apis
Keys - to modularize api keys location

**Site Map**

redirects to Landing Page atter forms submitted



This diagram shows what the website would look like without the login feature. If there were to be a login feature, then there would be a login page and a logout button. This feature would allow for settings to be saved.

Edit- The login feature did not happen, mainly due to the idea that there was no practical need for it if users were able to easily choose what stocks, news, and locations they wanted to see.

## Database Schema

Databases store most recently retrieved data from the APIs. Every time you run the page, it rewrites the database. This way, data won't be pulled from the APIs every time a new page is accessed, and we minimize the amount of time we make a call to the APIs.

APIs

| API (TEXT) | Data (TEXT) |
|---|---|

The API_JSONS table will only store stock names in a comma separated string (bad choice...perhaps) due to difficulty storing data retrieved from json for guardian.

## Roles

Ryan-  PM, Templating (Bootstrap)
Clara- The Guardian API section
      Key: 697684d3-9e9e-45e8-b3a4-b28ed5a741d9
Qian- Alpha Vantage and IEX Trading (Stocks) API Section
      Keys:  XDFTB6OV8CPHPJ45,
Rachel- Open Weather Map and IP address API section
      Key: 87bdad31331cad64c1efc0c13526c6f8