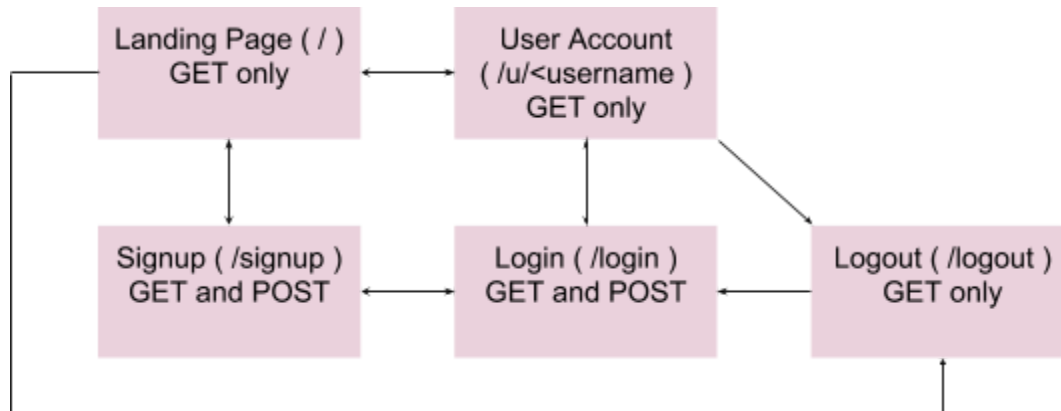**Team RanQuoR-Turkey**

Ryan Aday, Clara Mohri, Qian Zhou, Rachel Ng

SoftDev Period 07

November 20, 2018

Site Map

| landing page | → "sign up" → | landing page |

| landing page | → "login" → |user account page| (1)

(1) |user account page | → |select data you want displayed| (2)→ |user account page|

(2) |select data you want displayed| → select data you don't want anymore → |user account page|

(1)| user account page| : weather in your area, some info about stocks you choose, some news

_____stock functions _____

(2) | select data you want displayed| → |select stock data| (3)

(3) | select stock data| → search for stock → |form with related entries| → check & submit→ |home|

Database Schema

Databases store most recently retrieved data from the APIs. Every time you run the page, it remakes the database.

API JSONs

API name (TEXT)	API key (TEXT)	API URL stub (TEXT)	Last_retrieval (TEXT)	JSON data from last retrieved API call (TEXT)

The API_JSONS table will store all data from the three APIS.

USERS

username (TEXT)	password (TEXT)

The USERS table will store all information about the user accounts. The table needs to include a unique username and a password, which will be hashed. The username will be required to be at least 5 characters long.

Roles

Ryan- PM, Templating (Bootstrap)

Clara- Guardian API section

Qian- Stock (Alpha Vantage or IEX trading)

(https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=AAPL&interval=5min&apikey=XDFTB 6OV8CPHPJ45) Keys: XDFTB6OV8CPHPJ45,

https://financialmodelingprep.com/developer/docs?fbclid=IwAR3j0CW7e2w_DU3XGSw1wU6q1T_nWQpcLxBHvxCqAFhQf6 dARGspQT4wWbs

https://api.iextrading.com/1.0/stock/market/batch?symbols=aapl,goog&types=quote

Rachel- Weather API section (openweathermap.org)

Working on databases will be joint effort as all members are working with APIs.

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 and their passwords, currently active sessions, and other table info

JSON - Functions turns API responses into dictionaries and parse through that data

urllib - Retrieves requests from remote APIs