Web Hosting Technical Review

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Web Framework: Django vs. Flask

Django is...

- A high-level Python Web framework that encourages rapid development and clean, pragmatic design.
- Heavy-weighted: takes care of many standard functionalities
- Efficient: built-in template engine saves development time
- Template-based, ensuring developers use best coding and design practices

Web Framework: Django vs. Flask

Flask

- A Python micro web framework that encourages agile development
- Light-weighted: minimalistic built-ins and require no particular libraries
- Flexible: allows developers to add any number of libraries or plugins for an extension
- Dynamic: easily accommodates requirement changes

Web Framework: Django vs. Flask

Our choice: Django

- The requirements of our website will not change significantly.
- Many features expected for our website are offered by Django.
- In teamwork, using best coding practices is crucial

Getting the Data: Python Scraping vs. IEX Cloud API

Python Scraping

- Scrape data from Yahoo Finance.
- Updating stock info would require additional scraping.

Getting the Data: Python Scraping vs. IEX Cloud API

IEX Cloud API

- IEX Cloud is a financial data infrastructure that provides stock-related data.
- No need for development.
- Stock info from API is real time.
- Not free.

Getting the Data: Python Scraping vs. IEX Cloud API

Our choice: Python Scraping

- As a team of 6 we have enough time to develop the codes for web scraping.
- Our project goal is to perform long term analysis, so real time information is not that important.
- Cost efficient.

Dashboard

Get Stock Quote

Stock Quote

Add Stock

Get Stock Quote

Add Stock

Company Name	Price	Previous Close	Market Cap	YTD Change	PE Ratio	52WK high	52WK low	Delete
Microsoft Corporation	234.51	$240.97	$1768725019519	0.029975014030532376	$34.95	$245.56	$131.19	Delete
Alphabet Inc - Class A	2054.26	$2088.81	$1394147110999	0.15555466861420486	$35.05	$2145.14	$1008.87	Delete
Square Inc - Class A	268.08	$276.57	$113934000000	0.20105886785517363	$414.73	$283.19	$32.33	Delete
SelectQuote Inc	30.01	$29.43	$4888370554	0.4659750602409639	$None	$30.08	$15.76	Delete

Technology Use

- Python
- Django
- Sqlite3(Built in Django)
- HTML
- Bootstrap
- AWS

Question?