Project Title:

Finance Data App

Team Members:

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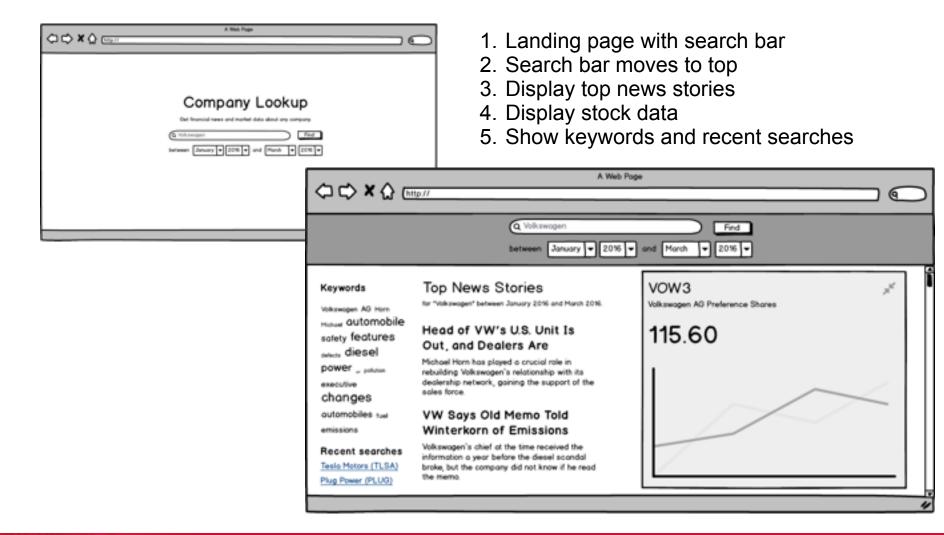
Project Description:

 Display side-by-side stock performance and news articles about any company within a set timeframe

APIs to be used:

- NYT Article Search API <u>http://developer.nytimes.com/docs/read/article_search_api_v2</u>
- Barchart OnDemand Financial Data API http://www.barchartondemand.com/api.php
- Stock Symbol Lookup API <u>http://d.yimg.com/aq/autoc?query=®ion=US&lang=en-US</u>

Initial Mockup:



Tasks:

- Landing page with search bar (HTML/CSS/JS)
- Top news stories (API)
- Keywords sidebar (API)
- Stock data and charts (API)
- Recent/favorite searches (Firebase)

Role Breakdown:

TBD

Tasks Breakdown:

1. Get user inputs:

- String ("Company Name") *required
- Start date *optional
- End date *optional

2. Look up stock symbol:

- http://d.yimg.com/aq/autoc?query=ford®ion=US&lang=en-US
- If returns only 1 result, get name and stock symbol to search
- If returns more than 1 result, list out top 5 results and let user pick 1; get name and symbol to search

3. Search financial data:

- http://www.barchartondemand.com/api/getHistory
- http://marketdata.websol.barchart.com/getHistory.json?
 key=9701a0bf851cecad546f285b4bd6b584&symbol=IBM&type=daily&startDate=20140101000000&e
 ndDate=20150101000000
- http://barchartondemand.com/api/getQuote
- http://marketdata.websol.barchart.com/getQuote.json?key=9701a0bf851cecad546f285b4bd6b584
 &symbols=IBM
- If no dates, use getQuote to get name, current price, % change, etc.
- If have dates, determine type (daily, weekly, monthly, etc.) based on difference of dates; use getHistory
 to get price values at interval of type, and calculate % change during time period
- Plot out values based on interval of type and display in a chart
- Reference for chart: https://gionkunz.github.io/chartist-js/examples.html

Tasks Breakdown (con't):

4. Search NYT Article:

- http://developer.nytimes.com/io-docs
- http://api.nytimes.com/svc/search/v2/articlesearch.json?q=volkswagen&begin_date=20140101
 &end date=20150101&api-key=sample-key
- Returns max limit of 10 results
- Get headline, byline, snippet, keywords, etc.

5. Display recent searches:

- Use Firebase to store recent searches by company name and stock symbol
- Rank by most searched

