Sprint Review 2

Thursday, 1st October



Hello Again 💉





Quick Outcomes

- Clearly defined MVP
- Overall UI starting to take shape
- Backend libraries delivering usable data
- Decided on working product architecture
- Bonded as a team

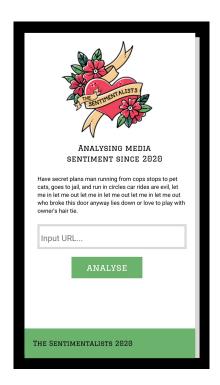


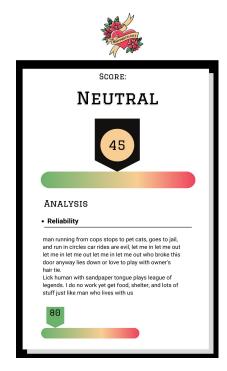
Frontend <u>F</u>

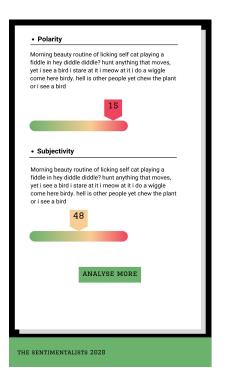
- Developed UI prototype with colour
- Defined the components needed to display data
- Decided app will be built in React using Material for styling and layout, with additional CSS where appropriate
- Started implementing grid layout for app
- Gained a greater understanding of props, state and event handling and where they fit into our product functionality



User Interface - Mobile









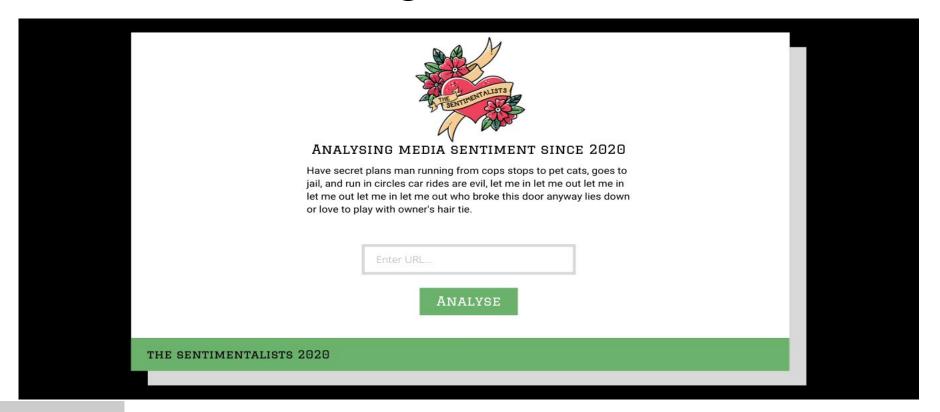
User Interface - Large Screens



ANALYSING MEDIA SENTIMENT SINCE 2020



User Interface - Large Screens



Backend 🏈

- Input for modules will be an URL (no free text / document upload at this stage)
- Defined **Python** as backend programming language
- Tools and Frameworks:
 - Visual Studio Code;
 - Visual Studio Live Share (collaboration);
 - Jupyter Notebook;
 - PyTest (testing);
 - GitHub (repositories and version control);
 - GitHub Project Board (track project tasks);







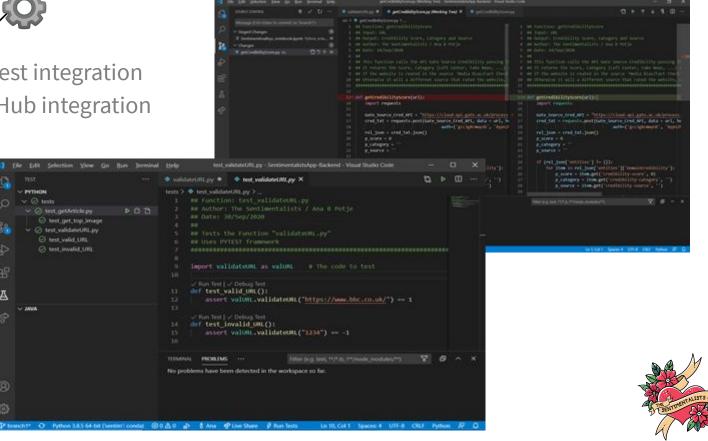






Backend 🕉

- VsCode X Pytest integration
- VsCode X GitHub integration





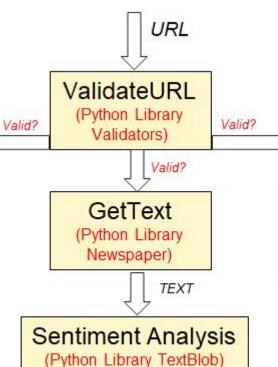
Python modules:

GetCredibility

(API Gate Source Credibility)

OUTPUTS:

- Score
- Category (Left, Right, ..)
- Source



OUTPUTS:

- Polarity
- Subjectivity

GetArticle

(Python Library Newspaper)

NLP Properties Extract OUTPUTS:

- Article Summary
- Keywords
- Top Image

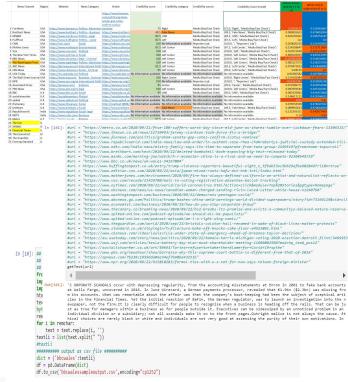




Tests, tests, tests!

- Tested Sentiment Analysis function noted Polarity, Sensitivity results from 30 News articles with varying sources, subjects
- Tested Credibility Score function credibility scores, category and source results noted
- Discussed results and observations with team to draw further actions (validate URL, error causing article, follow-up with Gate Cloud solution)
- Created Python code removing unwanted characters from text to display







Infrastructure **

- Explored different architecture patterns
- Reviewed pros and cons of each for our needs
- Mocked up a couple of the designs in AWS
- Implementing the final architecture using AWS API Gateway, Lambdas (Python), DynamoDB (NoSQL) and Step Functions, deployed with Terraform

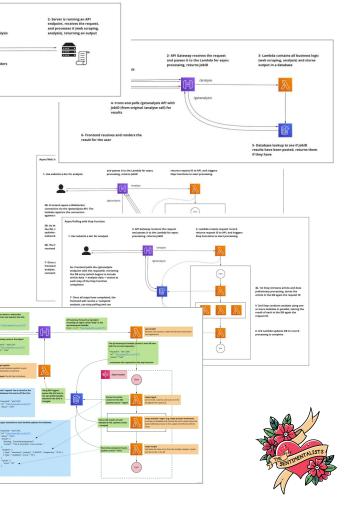
Actions • /analysis - PUT - Method Execution

ARN: armaws:executeapi:us-west-2-481434056562-62rb34zlb

Method Response

Integration Request®

Type: LAMBDA



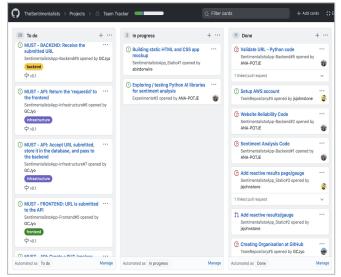
Team Practices



- Daily standups, formal retro meetings, test driven development, Pair programming as we move into V1.0
- **Github Team tracker** to priorities tasks in each sprint
- Collaboration: Reviewed various ways to **display results** at frontend and agreed one particular method to present the information







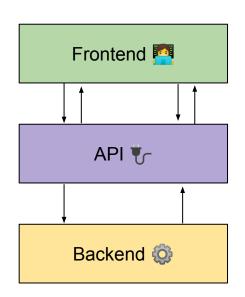


A First Draft 6

Agreed our first milestone/set of features, getting structure in place and our first data flowing:

Version 0.1:

- A simple front-end allowing the user to enter and submit a URL and view analysis results (just 'website credibility' to get us started).
- An API layer providing two endpoints: one to submit a URL/the request, and another to poll for results
- A backend that retrieves the credibility score for the given URL and stores results against the request





The First Major Milestone **

Extending functionalities to create a useful tool

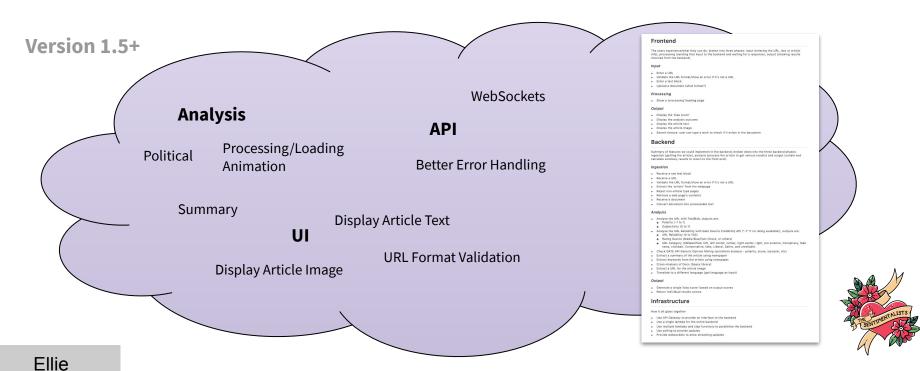
Version 1.0

- Retrieve and store the article content
- Add additional analysis, such as polarity, subjectivity
- Calculate a cumulative 'bias score'



The Future Goals

Many other features explored which we will consider for future iterations



Next Sprint Goals **Z

• Get through the v0.1 tickets



Questions?

