<u>Technology Stack Decision</u>

Current Technology Stack:

Framework: Django web framework using Python
We chose this particular framework because half of our group was proficient in Python. It is also a lightweight web server that allows rapid development in a clean Model View Template (MVT) model. Since it has a clean architecture, the Django web framework will allow us to abstract out the API calls for our web application.

View: HTML and CSS
HTML and CSS were the default views for the Django web framework, so we decided to continue to use it. It is also very simple to use and is very structured.

Client-Side functionality: JavaScript
JavaScript was added in a static script because it is compatible with most API functionality. It also allows us to easily receive or send JSON objects with important information in the API calls, and make appropriate changes to our program. The scripting language also allows us to modify elements on the page, and dynamically add news articles to the map when requested.

Database: SQL
We decided to use an SQL database because it is quick to query. Our application also follows the model for the key-value pairs, so an SQL database would fit well.

Other Stacks Considered:

MEAN:
We considered using the Node Express framework with Angular and MongoDB because it was mentioned in class. However, since only one person on our team had experience with it, we decided to choose the Django framework instead.