

project-2 / wdi-hamilton / david azaria / december 2017



what did i set out to do?



build on my interests and passions...



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uphill challenges

Web development + data science

news

what am i proud of?

technical wins include

- multiple CRUD features
- successful API call to third party source
- lots of new (to me) npm package implementations
- MVC all up and running
- even utilized a `for loop` to unblock my progress
- lots of data manipulation, including but not limited to:
 - stringification
 - tokenization
 - stemming
 - object/array/string parsing and conversion

what was challenging?

technical challenges include

- implementation of the tfidf did not go as planned
- implementation of the word cloud did not go as planned
- a never-ending collection of small bugs, which i should have done a better job tracking
- limited css / postgres development
- heroku deployment could have gone smoother

const allStermed = res.locals.newTokenized.reduce((acc, val) -> { return acc.concat(natural.PorterStemmer.stem(val));); D); const express = require('express'); /* again restoring my sanitized dataset into a res.locals to further sanitize elsewhere */ res.locals.allStemmed = allStemmed; const cumulusRouter = express.Router(); /* axios is my api calling package */ const axios = require('axios'); /* natural is my nlp package that will help with my stemmer and as intended the tfidf */ const natural = require('natural'); irrespective of their idf. */ const wordArray = res.locals.allStemmed; const sw = require('stopword'); /* because i knew i needed to at some point strip out just words after summing them, i decided to introduce an empty object which i will execute a loop into to sum particular words based on const tokenizer = new natural.WordTokenizer(); necessary, elsewhere in the project */ const newObject = {}; const searchDB = require('../models/searchesDB'); for (let i = 0, j = wordArray.length; i < j; i++) { if (newObject[wordArray[i]]) {</pre> newObject[wordArray[i]]++ newObject[wordArray[i]] = 1: const apikey = process.env.APIKEY; res.locals.sumWords = newObject; axios.get('https://newsapi.org/v2/top-headlines', { language: 'en', apikey. function sortWords(req, res, next) { .then(({ data: { articles } }) -> { /* run through 900 articles */ deem appropriate, which in this case are the words and counts */ const sortingArray = []; const matrix = articles.slice(1, 901) /* map over and extract only the description from each article */ .map(({ description, title }) -> title + description); for (property in object) { res.locals.matrix = matrix; if (object.hasOwn) ty(property)) { word: property .catch(err => res.send(err)); /* catch any errors from anything above */ count: object[property], atomic parts, in other words into words. */ sortingArray.sort((first, second) -> { return second.count - first.count; return sortingArray; concatination of of reduced words into a blank array */ const list = res.locals.sumWords; const allTokenized = res.locals.matrix.reduce((acc, val) => { const neworr = sortObject(list); /* here i specify that i am looking for the top 30 words based on how often they appear */ return acc.concat(tokenizer.tokenize(val)); const slicedArr = newarr.slice(1, 31); res locals sortedWords = slicedArr: res.locals.allTokenized = allTokenized: join() method to break up its pieces and sending back a comma separated list of atomic words */ const toDisplay = res.locals.sortedWords; canst words = toDisplay.map((stringify) => { further separate my concerns, either way, in this function i stem my words and introduce a stopwords package */ /* here i am stringifying through a .map function the word property of my words object */ return stringify.word; function stemWords(reg, res, next) { const oldTokenized = res.locals.allTokenized; const newTokenized = sw.removeStopwords(oldTokenized); res.locals.newTokenized = newTokenized; const newWords = words.join(', '); res.locals.words = newWords; const allStemmed = res.locals.newTokenized.reduce((acc, val) => { return acc.concat(natural.PorterStemmer.stem(val)); /* this function injects each result string into the database */ function injectSave(req, res, next) { searchDB.save(res.locals.words) res.locals.allStemmed = allStemmed;

all of this

cumulus



here our words will appear from most common to least, singling out the top thirty words currently found in english-speaking news headlines across the world

trump, presid, court, will, new, sai, year, travel, ban, suprem, mondai, t, tax, not, moor, donald, nation, mai, allow, senat, rol, back, on, U, it, republican, S, time, hous, two

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was humbling



questions? comments? concerns?