### Hui Xin Data Collection 3/13/20

Notebook: Animation Templates
Created: 3/13/2020 11:50 AM

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URL: https://stackoverflow.com/questions/25515936/perform-curl-request-in-javascript

### JavaScript/JSON Methods/Libraries to Know:

## Perform curl request in javascript?

• https://stackoverflow.com/questions/25515936/perform-curl-request-in-javascript

### Let in JS

https://stackoverflow.com/questions/762011/whats-the-difference-between-using-let-and-var?page=1&tab=votes#tab-top

Updated:

3/15/2020 6:55 AM

### JSON.parse()

- A common use of JSON is to exchange data to/from a web server
- When receiving data from a web server, the data is always a string
- Parse the data with JSON.parse(), and the data becomes a JS object

```
'{"name":"John", "age":30, "city":"New York"}'

// Use the JavaScript function JSON.parse() to convert text into a JS object

var obj = JSON.parse('{"name":"John", "age":30,"city":"New York"}');
```

# JSON.stringify()

• Data to a web server must be as a string

```
var obj = { name: "John" , age: 30 ,city: "New York"};
//convert to string
var myJSON = JSON.stringify(obj);
// myJSON is now the obj as string. Send to server
document.getElementById("demo").innerHTML = myJSON;
Output:
{"name":"John","age":30,"city":"New York"}
```

```
//Stringify a JS Array

var arr = [ "John", "Peter", "Sally", "Jane" ];

var myJSON = JSON.stringify(arr);

document.getElementById("demo").innerHTML = myJSON;

output:
["John", "Peter", "Sally", "Jane"]
```

# Fs (File System) module

- Node. js includes fs module to access physical file system. The fs module is responsible for all the asynchronous or synchronous file I/O operations.
- <a href="https://www.tutorialsteacher.com/nodejs/nodejs-file-system">https://www.tutorialsteacher.com/nodejs/nodejs-file-system</a>

#### **Good Coding Practice:**

Code basic example of your intended project and confirm your knowledge of the documentation by seeing if your basic example works.

Then code your actual projecte

#### getTranscripts.js:

```
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          // app.use(bodyParser.json());
     10  // app.use(bodyParser.urlencoded({ extended: true }));
          var obj = { // save this function inside a js object
          getFileData: (optionsList, idx) => { // define function
              if (idx == optionsList.length) { // if the idx == to the length of list
               return // break loop
              let options = {//store our request data in the following format
               url: 'http://localhost:32769/transcriptions?async=false',
                method: 'POST',
     20
                  "audio=@" + optionsList[idx][1], // this gets the audio file path
                 "transcript=@" + optionsList[idx][0] //. this gets the transcript file path
                //timeout: 5, // timeout stops the function
             // console.log(optionsList[idx]); // print the first element in the list
              curl.request(options, function (firstError, data) { // do the curl request here
                // console.log("here");
                if (firstError) {
                  console.log("first error", firstError);
```

- optionslist: contains list of the audios and transcripts
  - o inside Hui Xin's youtube-dl/downloads/audio
    - All the audios of the youtube videos extracted

```
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          // var app = express();
          const fs = require('fs');
          var joinPath = require('path.join'); //expected value for both UNIX and Windows: path/to/my/heart
      9 // app.use(bodyParser.json());
     10 // app.use(bodyParser.urlencoded({ extended: true }));
     var obj = { // save this function inside a js object
           getFileData: (optionsList, idx) => { // define function
              if (idx == optionsList.length) { // if the idx == to the length of list
                return // break loop
               let options = {//store our request data in the following format
                url: 'http://localhost:32769/transcriptions?async=false',
                 method: 'POST',
                 form: [
                   "audio=@" + optionsList[idx][1], // this gets the audio file path
                   "transcript=@" + optionsList[idx][0] //. this gets the transcript file path
                 1,
                 //timeout: 5, // timeout stops the function
               };
              // console.log(optionsList[idx]); // print the first element in the list
               \verb|curl.request(options, function (firstError, data)| { // do the curl request here}|
                 // console.log("here");
```

```
getFileData(...):
idx = argument Hui Xin created in order for her to move to the next element in the list of lists.
```

```
var obj = JSON object
// recursive function that calls obj.getFileData

var filename = joinPath...
//She defined the output as gentleOutput folder
//getJson saves the Gentle Jsons into an output file on her local computer
```

```
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                   "audio=@" + optionsList[idx][1], // this gets the audio file path
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                //timeout: 5, // timeout stops the function
              // console.log(optibnsList[idx]); // print the first element in the list
               // console.log("permissizations," // print the large element in the last curl.request("pations, function (firstError, data) { // do the curl request here // console.log("here");
      26
                 if (firstError) {
                   console.log("first error", firstError);
                 else { //if no error, stringy json output
                 jsonData = JSON.parse((JSON.stringify(data))) //parse jsonData
                  var filename = joinPath(__dirname + '/..' + '/data/gentleOutput/' + path.basename(optionsList[idx][1], '.m4a') + '.json');
                  getJSON(filename, jsonData); //write json file
                   //console.log(idx): // prints the idx num of the ison
                  obj.getFileData(optionsList, idx + 1); // increment the idx to move to the next option
               });
            },// close function()
           };// close module exports
      40
           module.exports = obj; // export obj, therefore the function defined within as well
1
```

```
what is an asynchronous function?

https://www.google.com/search?
q=what+is+an+asynchronous+function&rlz=1C1CHBF_enUS815US815&oq=what+is+an+asynchro&aqs=chrome.4.0j69i57j016.5637j1j1&sourceid=chrome&ie=UTF-8

first if statement is a catch
else statement toString() json output

var filename indicates

getJSON(filename,data) {
    //stringify data and parse the data
    //uses fs to write the file
    //try catch for failure and success cases
```

testGentle.js:

```
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         //basic Express app which starts a server and listens on port 8886 for connection.
         var port = process.env.PORT || 8885; //set port to 8886
         var server = app.listen(port, function () {
          var host = server.address().address
           var port = server.address().port
          console.log("Example app listening at http://%s:%s", host, port)
         });
    39 const audiofilesPath = joinPath(_dirname + '/..' + '/sandbox/youtube-dl/downloads/audio/') 1//set path to location of audio files
         const txtFilesPath = joinPath(_dirname + '/..' + '/sandbox/youtube-dl/downloads/') // set path to location of text files
    40
    41 const aligner = require('./getAudioTranscript.js'); // import module from routes/getAudioTranscript.js
         var optionsList = [] // define an empty list to save al the options
     44
         var txtFiles = fs.readdirSync(txtFilesPath); //read the path syncrhonuously.
         txtFiles = txtFiles.filter(file => file.endsWith(".en.txt")); //find only files that end with this ext
         var audFiles = fs.readdirSync(audioFilesPath); // read the path syncrho
         audFiles = audFiles.filter(file => file.endsWith(".m4a"));// find only files that end with this ext
         for (var i = 0; i < txtFiles.length; i++ ) { // for the number of txtFiles we have</pre>
          \ensuremath{//} find the audio files that have the same basename as the basename of txtFiles
           const audioFile = audFiles.find(elem => path.basename(elem, '.m4a') == path.basename(txtFiles[i], '.en.txt'));
            if (audioFile) { //if that audioFile exists
```

- How do I call the function getFileData from the other js?
- · Define an aligner variable that requires that js file

```
// Read up on fs js documentation

txtFiles = txtFiles.filter(file => file.endsWith(".en.txt"));

// find files that end with this extension

// this is to filter out non-english transcript files
```

```
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                    const audioFilesPath = joinPath(__dirname + '/..' + '/sandbox/youtube-dl/downloads/audio/') //set path to location of audio files
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               48
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// find the audio files that have the same basename as the basename of txtFiles
               50
                      const audioFile = audFiles.find(elem => path.basename(elem, '.m4a') == path.basename(txtFiles[i], '.en.txt'));
                      if (audioFile) { //if that audioFile exists
                        // push both filenames with full file path into a list
                         optionsList.push([txtFilesPath + txtFiles[i], audioFilesPath + audioFile]);
                    aligner.getFileData(optionsList, 0); //call the function that we defined in getAudioTranscript.js
. .
```

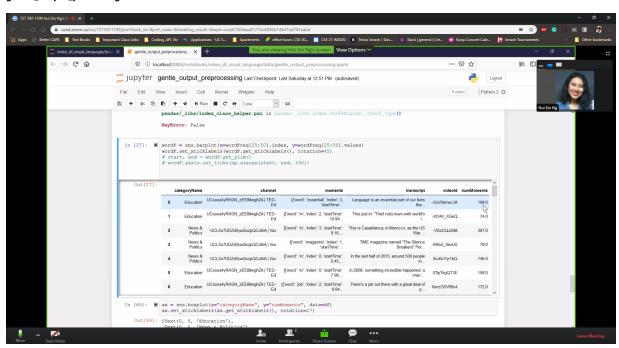
```
The for loop:
    if(audiofilename = videoId):
        push both filenames into a list
        then insert this into a list of lists

path.basename drops the extensions so you can compare just the videoIds

Hui Xin:
    Drop the extensions to do the name comparisons then reinsert the extensions to complete the curl request
```

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           var host = server.address().address
            var port = server.address().port
           console.log("Example app listening at http://%s:%s", host, port)
     37 });
    const audioFilesPath = joinPath(_dirname + '/..' + '/sandbox/youtube-dl/downloads/audio/') //set path to location of audio files
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            if (audioFile) { //if that audioFile exists
              // push both filenames with full file path into a list
              optionsList.push([txtFilesPath + txtFiles[i], audioFilesPath + audioFile]);
```

#### gentle\_output\_processing:



numMoments: number of synset rating words that appear in that transcript