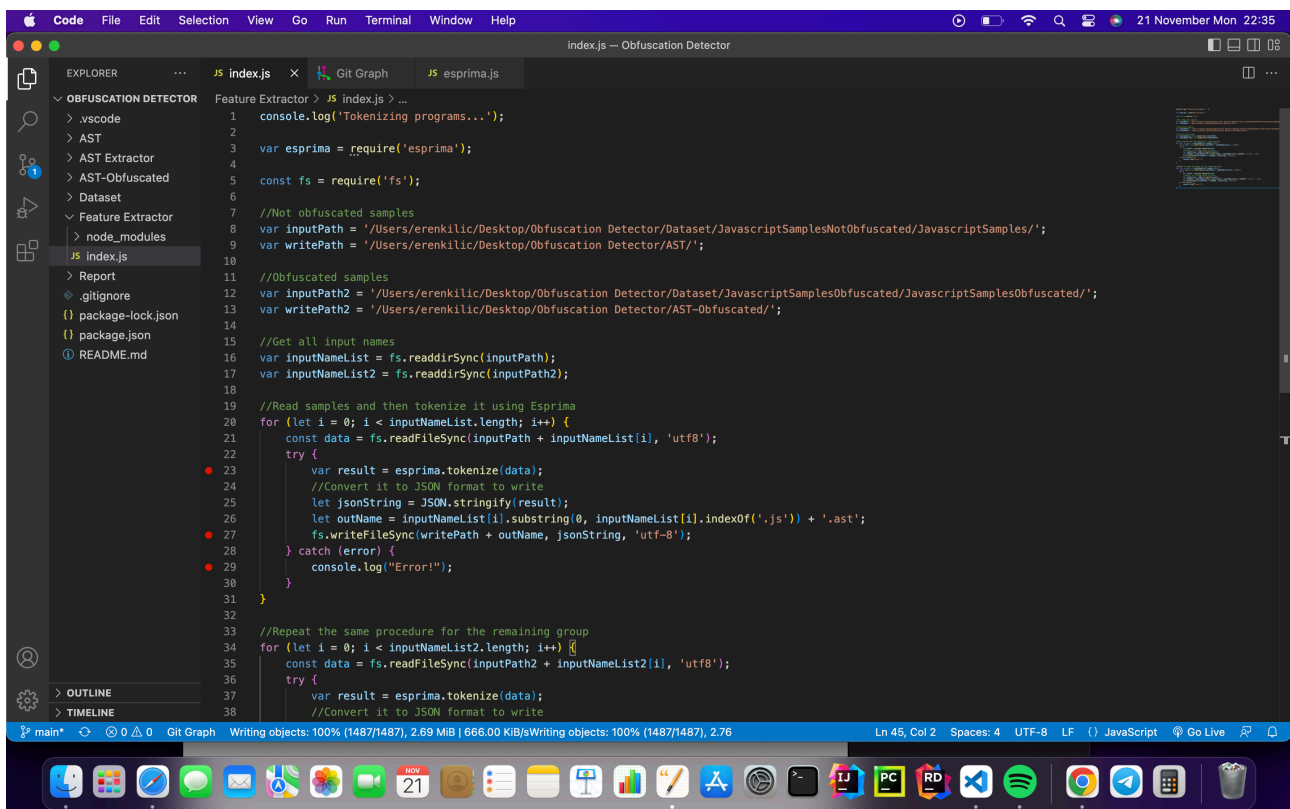


Progress Report

Eren Kılıç

- 1- Downloaded dataset from [Kaggle](#).
- 2- The dataset contains 1898 not obfuscated and 1477 obfuscated JS samples. They are not paired.
- 3- To analyze samples I created a JS program that uses parser called Esprima. I read all the data and tokenized it using Esprima. Then I converted it to JSON file and saved them.

A screenshot of my project as follows:



```
1 console.log('Tokenizing programs...');
2
3 var esprima = require('esprima');
4
5 const fs = require('fs');
6
7 //Not obfuscated samples
8 var inputPath = '/Users/erenkili/Desktop/Obfuscation Detector/Dataset/JavascriptSamplesNotObfuscated/JavascriptSamples/';
9 var writePath = '/Users/erenkili/Desktop/Obfuscation Detector/AST/';
10
11 //Obfuscated samples
12 var inputPath2 = '/Users/erenkili/Desktop/Obfuscation Detector/Dataset/JavascriptSamplesObfuscated/JavascriptSamplesObfuscated/';
13 var writePath2 = '/Users/erenkili/Desktop/Obfuscation Detector/AST-Obfuscated/';
14
15 //Get all input names
16 var inputNameList = fs.readdirSync(inputPath);
17 var inputNameList2 = fs.readdirSync(inputPath2);
18
19 //Read samples and then tokenize it using Esprima
20 for (let i = 0; i < inputNameList.length; i++) {
21   const data = fs.readFileSync(inputPath + inputNameList[i], 'utf8');
22   try {
23     var result = esprima.tokenize(data);
24     //Convert it to JSON format to write
25     let jsonString = JSON.stringify(result);
26     let outName = inputNameList[i].substring(0, inputNameList[i].indexOf('.js')) + '.ast';
27     fs.writeFileSync(writePath + outName, jsonString, 'utf-8');
28   } catch (error) {
29     console.log("Error!");
30   }
31 }
32
33 //Repeat the same procedure for the remaining group
34 for (let i = 0; i < inputNameList2.length; i++) {
35   const data = fs.readFileSync(inputPath2 + inputNameList2[i], 'utf8');
36   try {
37     var result = esprima.tokenize(data);
38     //Convert it to JSON format to write
```

I am using Github during development. The link of repository: <https://github.com/Terminou/Obfuscation-Detector>