Hello Eddy,

Thanks for sending the assessment. I went through the docs and also downloaded the repos mentioned in the assessment and came up with a set of functions that would be required to solve the assessment.

Here is the link to the repo I put in github.

<https://github.com/rampar0310/ramLibObs>

The repo contains 2 projects.

1. Electron-quick-start
   1. I took some tutorial and I was able to create an electron application with main thread and renderer thread with buttons Start and Stop button. Pressing these buttons sends a message to the main thread which in turn would trigger the functionalities defined in the cc node native module “**example.cc**”
   2. I was able to create the node native module using the c class type file example.cc and the binding.gyp. The node version I used was v 12.8.3. The commands used to set up node gyp.
      1. npm install node-gyp -g
      2. npm install nan --save
   3. However, I was not able to link the libraries that are supposedly generated by the project MyLibObs.
2. MyLibsObs project
   1. This project contains logic and function calls to set up the 4 different modules, viz, source, encoders, output and service. They are all defined in file **MyLibObs.cpp**. There are 2 functions: **StartUpOBS()** and **ShutDown()**.
   2. I was using the Xcode project to write code and compile libs, since I do not have a Windows machine and have only mac. However, since the library built in the obs-studio projects were all .so files, I had trouble linking them in the xcode project. (I should have taken the cmake direction and I am not familiar with the xcode build environment) So the project will not compile and throw errors.
   3. Also I was not able to generate mac compatible lib files with the instructions provided here. (under macOS Xcode Project section)
      1. https://github.com/obsproject/obs-studio/wiki/Install-Instructions

Please go through the two projects and provide feedback.

Thanks

Ram