Student Name : David Corrigan

Project Repo URL : <https://github.com/Davidcorrigan1/NetworkProject1>

YouTube Video : <https://youtu.be/wrN-GYlKC14>

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| Grade Band | Combined Knowledge | Networking Technologies | IoT Solution | Communication |
| Base |  |  |  |  |
| Good |  |  |  |  |
| Excellent | I have included building a website in Node.js, JavaScript and Handlebars template engine.  I researched how to implement Thingspeak API calls into node.js.  I have used threading in Python to enable the Blynk app connection to be maintained when running the main program. This was required because of the sleep () function calls in the main process disconnected Blynk.  I have used some bash scripting called from my python code to convert the video to MP4 and also to delete files from the local storage. | I’ve included a number of IOT platforms including Firebase and Thingspeak. Sometimes it made sense to do so, other times it was to get around constraint using node.js which had problems connection with Firebase Storage.  I’ve used both Bluetooth BLE and WiFi 802.11x protocols.  I used HTTP API calls to send information to Thingspeak. There is an option to use a lighter weight MQTT protocol with Thingspeak but it was too high risk to change with the time left when I discovered it. | I use Thingspeak reacts to interpret the data being sent to the platform, and trigger a number of different actions based on the data.  I used Firebase Storage as the repository for videos taken, but used Thingspeak as the repository for data along with the URL to the Firebase video.  There seems to be an issue with accessing Firebase **Storage** specifically from node.js environment. To get around this I used Thingspeak to store the URL of the Firebase Storage video location, so I could then use Thingspeak APIs to get at the data for my website. | I have included a detailed slide deck outlining the project and how it was implemented.  I have included a detailed readme document and my code is well documented.  I have also included a ‘Project Overview’ tab on my node.js website with links to the documentation and a diagrammatic overview solution  I have also the original Proposal document which is unchanged to highlight the journey from initial proposal to final prototype. |
| Outstanding |  |  |  |  |

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Additional Comments:

