Student Name : Paul Holohan Student No: 20086639

Project Repo URL : <https://github.com/pholohan/GreenGuard>

Project Website URL : <https://pholohan.github.io/GreenGuardWeb/>

Demo Video : <https://youtu.be/kCvXVic7keQ>

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| --- | --- | --- | --- | --- |
| Grade Band | Combined Knowledge | Networking Technologies | IoT Solution | Communication |
| Base |  |  |  |  |
| Good |  |  |  |  |
| Excellent | Concepts from more than 2 Strands Have been Used, Programming, Web Dev and Computer Systems and Networks  Advanced knowledge of Raspberry Pi GPIO & Serial Peripheral Interface along with the SPI library for Python | Lightweight Messaging Used Using a WebAPI from the Raspberry PI to publish data to the ThingsSpeak Cloud and then subscribe using ThingSpeak Channel to read the data. | Solution with clear IOT and domain application where the Moisture Sensor Detection System can be scaled and further enhanced to output to Water Pumps |  |
| Outstanding |  |  |  | Includes Git Repository and Website which provides a project report and embedded Channel Data from ThingSpeak |

Additional Comments:

