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Project Repo URL : <https://github.com/niallphelan01/IOT-application>

Website with supporting documents: <http://nphelan_IOT_application.surge.sh>

<https://niallphelan01.github.io/IOT-website/>

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| --- | --- | --- | --- | --- |
| Grade Band | Combined Knowledge | Networking Technologies | IoT Solution | Communication |
| Base | As below | Multiple GPIO devices (relay, door sensor, tamper)  I2c sensor (BME 280) | As below | As below |
| Good | As below | Wireless only for the arp-scan of devices on the network when the alarm triggers | As below | As below |
| Excellent | As below | As below | IOT application of prototypical standard with hardcoded devices | As below |
| Outstanding | Used knowledge from database, node.js from ICT skills and ejs and harp and surge from web development | MQTT from Pi to Wia and Blynk.  MQTT from Wia to laptop for mySQL server.  Upload (photo and video) from raspberry pi to s3 bucket | See the future section of the documentation, if some of these were achieved including the channel setup via a settings file and web interface this would be of a higher standard. This wasn’t met for this assignment. | Using harp and surge, please see the following website for information on the setup and how it was programmed along with videos and details.  <http://nphelan_IOT_application.surge.sh>  I’ve also added a site with Github pages as some features not working with surge. <https://niallphelan01.github.io/IOT-website/> |

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Additional Comments:

Youtube link to video: <https://www.youtube.com/watch?v=qXZDoCGW8Lo&feature=youtu.be>

