

Student Name : Sophia McGee
 Project Repo URL : <https://github.com/SophiaMcGee20040472/MarvelMirror>
 Youtube Video : <http://youtu.be/O9Hg5FzW4PU?hd=1>

Grade Band	Combined Knowledge	Networking Technologies	IoT Solution	Communication
Base	Web development, programming, ict	router,wifi, raspberry pi	Checking for temp,pressure,humidity gives light response with Sensehat	readme and video
Good	computer systems, ict ,Web development,networking,	wireless printer smart android eg livestream port 8000 eg email messaging port 587	My firebase real time database keeps track of photos taken and stores its timestamp, this is one example of data processing.	repository includes clear presentation and documentation
Excellent	bash script, Javascript, html,css,python,	Blynk buttons that send Text,email,and tweet. I have used Blynk buttons. I have 10 virtual pins that link both to app and blynk dashboard.Blynk communicates with raspberry pi and my glitch website. I have also used a wireless printer to print from pi.	physical Mirror made with ability to take and store Photos using the Blynk App and Firebase	Installation and general construction documentation
Outstanding	Using tweepy library for tweeting, Learning how to incorporate Html+css in Javascript. Learning how to programme exact light pixels for Sensehat.	I experimented with pyrebase library but went with the Firebase approach to Cloud iot. I am able to take pictures with my blynk app and upload them to firebase storage_bucket and then using my js script in my glitch app can return some to my image gallery.	I think my project could have potential marketing potential given more time and experience.	Glitch Website with gallery selection from Firebase and livestream option

Additional Comments:

Grade Spectrum

	Combined knowledge (15)	Networking/IoT Technologies (35)	IoT Solution (35)	Communication (15)
Base (40-49)	2 programme strands present in output. Basic knowledge of each exhibited. (e.g. programming, database, computer systems)	Physical/Data link layer solution. Minimal devices	Basic solution that may form basis of overall application. Sensor focused.	Minimal (1) communication resource used (simple read me) and video.
Good (50-64)	Apply concepts from more than two modules/strands..	Wireless/Wired protocols including network and transport layer. >1 protocol. Interconnected devices.	Solution with clear IoT and domain application. Includes data processing/ gateway function.	Portfolio/repository includes clear presentation, documentation.
Excellent (65-80)	>2 strands as above and including more advanced knowledge and concepts.	Lightweight messaging. Network/API programming. Architecture/ IOT Framework that mediates between <u>high and low level</u> devices.	IoT Application of good prototypical standard. Used to evaluate overall suitability for a production system.	Additional communication resources (e.g. instruction video, learning resources, installation guide)
Outstanding (80-100)	All above, including self-acquired knowledge over and above module content.	All <u>previous to</u> excellent level. Excellent Use of Cloud/IoT specific platforms	Novel solution of clear applicability to specific domain. Could result in employment offer.	All the above to excellent level, accessible project platform (e.g. web site)