Submission Date	2019-09-10
Project Name	Greenhouse System Scale Model
Student Names	Ryan McAdie, Daniel Bujold, and Aiden Waadallah
Project repository	https://github.com/McAdieCENG/CENGProject
Sensors Effectors choices	BME280 For Temp and Humidity, EK1940 Soil Moisture Sensor
The database will store	Temperature, Humidity, Soil Moisture Levels
	The mobile application will display temp, humidity and soil moisture
The mobile device	levels when the user logs in. They will also be given the option to access
functionality will include	a camera to take a picture to post on social media
I will be collaborating	
with the following	
company/department	I will be collaborating with Humber Arboretum
My group in the winter	
semester will include	Myself (Ryan McAdie), Daniel Bujold
	The real life problem being solved by this project is that Humber
	arboretum and several other nurseries don't have a proper system to
	measure temperature, humidity and soil moisture levels. This monitoring
50 word problem	system will help them to keep track of everything related to the health if
statement	the habitat.
	Humber Arboretum needs a system to measure and display, in real-time,
	the appearance, temperature, humidity, and soil moisture of the plants in
	its nursery. Through an app, employees can view these measurements
	online. It will be connected to the firebase database through the internet.
	Firebase server will hold all the levels measured by the sensors and will
	send it to the mobile application. The mobile application will display
100	those levels on the screen when the user's login. There is an additional
100 words of	camera option in the app which will allow users to click the picture and
background	share it on social media.
	(n.d.). Monnit Remote Monitoring Systems for Greenhouse Monitoring.
	Retrieved from https://www.monnit.com/solutions/greenhouse-
	monitoring Labbate, E. (2018, March 19). Greenhouse Sensor Systems for
Current product ADA	Real Time Monitoring and Control Greenhouse Automation Systems.
Current product APA	Retrieved from https://www.climatecontrol.com/blog/greenhouse-
citation	sensor-systems/ An IoT-Based Traceability System for Greenhouse Seedling Crops G.
Existing research IEEE	Ramirez-González (2018) IEEE Access, 6, 67528-67535.
paper APA citation	https://ieeexplore.ieee.org/document/8502066
Brief description of	A Raspberry Pi, a BME280 sensor, an EK1940 sensor and possibly a
planned purchases	camera that we can hook up to the RPi to take remote photos
p.s.mea parenases	To build a device capable of reading temperature, humidity and soil
	moisture to be used in plant nurseries. Along with a constructed mobile
	application that can be used to access a database to show users real-time
Solution description	information regarding temp, humidity and soil moisture
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