Submission Date	2019-09-12		
Project Name	IoT for NFC/RFID Reader		
Student Names	Robert Dinh		
Project repository	https://https://github.com/RDinh/NFCRFID		
SensorsEffectors			
choices	PN532 NFC/RFID controller		
The database will store	Student ID and Parts Crib Inventory		
The mobile device			
functionality will	Queuing items, signing in/out items and generating NFC/QR codes that later		
include	can be scanned at the parts crib to indicate that students have arrived		
I will be collaborating			
with the following			
company/department	Humber College's Parts Crib		
company/acpartment	Trumber conege 31 arts crib		
My group in the winter			
semester will include	Johnathan Luong and Colin LeDonne		
Schlester will include	the current Parts Crib has some flaws that should be addressed to help it		
50 word problem	operate more efficiently. It has lost some of its items and is unable to		
statement	effectively hold students accountable for them. It also wastes a lot of paper		
Statement	The mobile phone has been very convenient for users especially with the		
	emergence of contactless payment. This type of technology that resolves		
	around Near Field Communication (NFC) can be applied to modern day		
	problems such as the Parts Crib. Having a contactless transaction of		
100 words of	information will allow the Parts Crib to operate efficiently and effectively		
background	without requiring any extra manpower. Since students carry around their		
Current product APA	without requiring any extra manpower. Since stauents carry around their		
citation	ENAiKOON. (n.d.). ginstr apps instead of paper forms! Retrieved from h		
Citation	Environmental apps instead of paper forms. Retrieved from t		
Existing research IEEE	Sethia, D., Gupta, D., & Saran, H. (2018). NFC Secure Element-Based Mutual		
paper APA citation	Authentication and Attestation for IoT Access Publisher: IEEE.		
Brief description of	A Canakit Raspberry Pi 3 B+ Starter kit and the Adafruit PN532 NFC/RFID		
planned purchases	controller breakout board.		
	The ability to queue items, sign in/out items and genereating NFC codes with		
	a mobile device will make the process more convenient for both the students		
	and the Parts Crib. Students will able to select their items before they reach		
	the parts crib and the Parts Crib will be able to view the items when they		
Solution description	arrive once the students have tapped their phones using NFC.		

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