**Parts Crib Database System – David, Tosin & Mohand.**

**Week 5 Progress Report – CENG 355 (5th March, 2018)**

**Group Members Individual Progress & Problems Encountered.**

The team, Austin and Vlad had a discussion last week concerning the parts crib’s preference on which of our 2 different Identification readers will be more convenient for the student authentication process. We tried to decide between Mohand’s magnetic strip card reader (Swipe) and David’s USB Barcode reader (Scan). We later came to the conclusion that both readers could actually be utilized for specific purposes as described below:

* USB Barcode Scanner/Reader: For Scanning Individual Items into the Web Application.
* Magnetic Strip Card Reader: For Student Authentication.

**Mohand Ferawana:** Mohand worked on the Magnetic strip card reader. This is implemented in the first stage of the main operations procedure for User authentication. Basically, he created a page on the web application where administrative users can swipe student cards from a text field and auto trigger a server request for valid and existing user information before proceeding to the second stage of the main operations procedure which is David’s item scanning/selection functionality. He made this possible by extracting the data needed from the student card in order to query the database through the web application. After which the returned information is presented in the web page for user verification. He successfully completed this functionality on the 4th of March and no major problems have been encountered so far. This week, during the group meeting, the team will decide the next step to focus on.

***[NOTE] “Main Operations” is a 3-step procedure we’re implementing into our web application in order to complete the item check-out process. These three steps include User Authentication, Item scanning/selection and Quantity Selection (Summary) and Approval.***

**Ifeoluwa David**: Personally, the focus has been on facilitating the selection of items in the system using the USB barcode scanner. Instead of programmatically extracting a list of items from the server for user selection through a long list of categorically arranged checkboxes and what not, I decided with my team to keep the web application’s functionalities strictly administrative. I successfully worked on the front and back end of the second stage of the main operations procedure which simply involves the ability to scan a registered barcode on an item and the corresponding item name for that specific barcode will be returned from the server into a cumulative list box on the web page. At the moment, I am currently at a stage where I’m trying to ensure this list box of scanned items is modifiable by implementing a way of deleting specific indexes in order to make the item selection process a bit more flexible.

**Tosin Ajayi**: Tosin’s role in the project is to set up the user login, registration and profile settings functionality. This simply allows administrative users to login into the system, register students, make changes to their personal profile as well as carry out inventory update activities. He successfully completed the login and registration functionality; however, he’s currently working on implementing an input validation process for the user registration and profile update aspect. This will ensure that the data entered is valid enough to be entered into the database. Based off of Austin’s email and the agreement with the parts crib, the group has also decided that upon completion of this stage, Mohand will be taking over the registration process, in order to implement the student card authentication feature using the magnetic stripe card reader. Simply because every card’s data needs to be extracted and registered at first, before it can be considered valid for user authentication during the item check-out process.