

## ABSTRACT

The Assessment and Payment Queuing System with Android Application, SMS bot and Web based scheduling for the students of the College of Engineering, Architecture and Technology is a system which automates the process of queuing for assessments and payments at the DLSU-D's administration office. It does not include the assessment process or the payment process and only focuses on the queue. This automation is done by developing an Android application. There are two versions of the Android application -- one version is made specifically for the proposed terminals and one version is for Android mobile phones. The above mentioned terminal has an Android Tablet and a Thermal printer. The purpose of this terminal is to cater to those students who do not have Android phones since according to survey results, 31% of the students of CEAT use non-android phones. The 69% who have Android phones has the option to install the application and enqueue using their mobile phones instead. The android application requires the user to type in their student number, full name, mobile number and select the type of transaction (Assessment, Payment, Assessment/Payment) from a dropdown list. The said information will then be submitted and a stub/reference number will be given to them. For those using the terminal, the stub will be printed out by the thermal printer while mobile phone users are asked to "print screen" their stub numbers. The user's mobile numbers are used for the SMS bot which sends a message of how close one is from the person currently being serviced by stating how many more persons are ahead. The web based scheduling allows the user to choose a date and a time from 8am-5pm within that day for their transaction. They are also given a stub or reference number which they can print out.

**Keywords:** Terminal, Android, Stub, Assessment, Payment, Queue