### CLASS ATTENDANCE SYSTEM

### ABSTRACT

There has been a major concern in class attendance accountability in most of the Kenyan universities. Some students opt to skip classes and ask their friends to sign the class attendance in their absence. This has made quality assurance in taking class attendance challenging. Some lecturers have also opted to call the attendance name by name after they have finished lecturing. This is time consuming and can also be tiresome, considering a class with many students. Technology has evolved and there is always a solution for every problem. Therefore, coming up with a web-based class attendance system using QR code, will be a solution for the mentioned problem. In as much as there is an option of using biometrics which can be expensive to implement, this solution also considers the universities that are still growing. Most universities use the attendance sheet; therefore, the solution also aims to eradicate paper work. Embracing the system will save time, work load and also increase safety of data. Example, misplaced or damaged attendance sheet. The proposed system will be integrated into the student‘s university portal, where every student will login to their portal and scan the QR code provided by their lectures for every class. The system will also be able to tally the student‘s attendance at the end of the semester and determine whether the student can sit for their end of semester examinations or not. For its implementation, django framework will be used. The limitations of the system are that every student requires a smartphone, another limitation is that the QR code scanning needs enough lighting. Poor QR code printing and distribution can also be challenging in that, if the QR code is poorly printed, it can be hard to be scanned.