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Social Impact Statement

Stakeholders:

The stakeholders on the project are the entire undergraduate student body and the chapel office. The interest of the chapel office was that we create a system that can speed up the id scanning process as well as the uploading of the data. Some of the features that they requested in the application are a way to scan ids that come in late to chapel and put them on a non-credit list. Another aspect of the system they requested was to impose limits on the amount of credits that you can get within a certain time frame and day. Implementing these features would help the chapel office have less issues with chapel credits and students. The chapel office would then be able to focus more time on the betterment of chapel rather than fixing chapel credit issues. The students will benefit mostly in terms of efficiency of check out in chapel events and less physically signing out chapel events.

Problem:

The current chapel credit checking system involves using Pocket PCs to scan the barcode of a Gordon ID to retrieve the student's information for a chapel event. Afterwards the chapel checker has to plug the Pocket PC into a computer to connect to the internet to upload the student information. This current method requires a lot of work to upload the information. When it comes to scanning the student ids, the checker has to have the id at the right angle and the id can't have any damage to the barcode. This method causes traffic at bigger chapel credit events, causing students to be late for class. The hardware used by this system is more expensive, complicated, and outdated.

Solution:

A mobile application that scans Gordon ID's by their RFID prox readers would be more economical and efficient since it would be using a cheaper technology. The cards will only need to be tapped to the device rather than having to aim a barcode scanner. The ultimate goals when developing this system are to ensure that the student's information is safe and their chapel credit is accurately and reliably uploaded to the server. It could also reduce the need for so many chapel credit checkers due to faster scanning or perhaps eventually unmanned scanning stations. This application could save the college money and time and reduce the unnecessary traffic in chapel events, which would also improve the student morale when attending chapel.

Possible Risks:

Some of the negative impacts that can come with this system are that the students information is not fully secure. We are not fully aware how much of the student's information gets stored, but we want to ensure that their information is protected both locally on the device and as it is uploaded to the server. Another possible issue is that the data doesn't get uploaded to the server and the student doesn't get credit for attending that chapel. We need to ensure reliability of the system's process by thoroughly testing it in multiple cases. Another risk is having a confusing and unfriendly user interface, although the features are important for the system, having a friendly

application that is easy to use and learn is important for the chapel checkers and the chapel office who has to teach checkers how to use it.