**Feasibility Report**

1. **Product:**

A web page for students and faculty/staff in the School of Nursing to keep track of a set of checklist items through their school career. The web page will consist of a “Student UI” that shows checklist items and gives the students the ability to manage the completion of tasks. Also, an “Admin UI” will be available for Faculty and Staff that offers the ability to query against student data.

1. **Technical Feasibility:**

The proposed web page will perform all outlined specifications given by the School of Nursing per our sit-down meeting. We plan to use a n-tiered approach to developing the web page; the n-tier approach will include client view layer(s), software logic layer, as well as a database layer. The benefit to this design is to allow efficiency for testing software and disable the client from being able to manipulate the logic layer without authorization from the client layer. We can do all of this with Javascript/HTML and a database system. We intend to use an SQL DBMS. We are currently investigating options for web hosting.

1. **Social Feasibility:**

There will be two categories of users for this system, students and faculty/staff. For students, they will need to remember login information. The web page is as simple as selecting from drop/down and clickable boxes to mark their checklist items. For faculty/staff, the proposed system would be a complete makeover of their current system (which is manual entry of 100’s of tasks on paper). They will be able to efficiently access and query student data, which they have never been able to achieve. Faculty/staff would also need to remember login information but we plan to implement recovery options if they forget. We plan to continue to provide written documentation to the School of Nursing as well as meet in person to ensure co-operation before changes are introduced.

1. **Economic Feasibility:**

The reception from the School of Nursing when speaking on potential monthly web hosting costs were that the benefits of this system heavily outweigh the cost. Their current structure is costing the program money in the form of printing resources and time which they could likely spend more productively on other tasks. The web-hosting for the proposed system is the only direct cost and should be fairly inexpensive (estimated $4-$8/Month) because of the small amount of traffic and data storage needed. The benefits of the proposed system are that it will require less management of physical data and offer more efficient and quick access to student data (searching, filtering, etc).

1. **Market Research:**

This product does not have direct competition since we are student developers and our product is free outside of website hosting costs. The School of Nursing could go to a web hosting site and build the product themselves, but they admittedly do not have the understanding nor the resources to do such a thing. Alternatively to building it themselves, they could hire outside web developers to deliver a product. However, outside developers would cost them x amount of dollars in developer fees paired with the monthly web hosting fees.

1. **Alternative Solution:**

The two other considerations for this project are mobile applications. First, a cross platform app written in React Native and using Firebase as our database. The negatives of this project versus our proposed system are the limitations of querying data for admins. Having a larger screen to view data will make things easier to navigate and search. Second, instead of writing a cross-platform app, we considered two separate apps; one for Android, and one for IOS. The downside is learning two new languages and managing both. Again, a large issue with this is the lack of interface options and would make querying data more cumbersome.

1. **Project Risks:**

We are still learning whether we need to have full integration with the IU system in our project. If we do, there are potential integration challenges that we may face with the existing protocols that are established. Staff turnover is another risk we need to design in our project. We will have to give current admins access via the client layer to grant admin access to other faculty/staff.