**Pharmacy System Feasibility Report**

The project will be a program for Pharmacy use. This program should be able to help Pharmacists by providing a means to store and access information about. This information will be in two different sections. One section will be for the doctor’s name, contact information, and signature. The other section will be for their customers’ name, age, gender, allergies, contact info, and the reason for visit. There will also be a means of storing information about the pharmacy inventory. This information should be how much they have, known symptoms, and usage directions.

Some systems that will be used and are proposed for the system is Java for the programming language, and angular for database systems. Java is being used as most of the team members are familiar with this language, and there is plenty of documentation for reference. Angular is being proposed because it is a popular database system. This system will be easily able to perform the requirements of the project, as the main function of the system is to act as a database.

Considering that the proposed system is similar enough to already existing systems in the field, it is unlikely to negatively affect those affected by its introduction. Introducing this system to its users should help increase the usability, and make the jobs of the users easier, but not de-skilling the job itself. The system will help perform their current tasks more effectively, without any major retraining, as the only differences should be some increased user usability, as well as some minor differences from the project system, and the already existing systems.

The cost of adopting this system would be the base price of the software its self, which is basically free as it is a student project, and any possible subscription service fees for hosting a server for aided communication between different users. Peer-to-peer would help remove this fee, but would complicate communication, and require some training for users on how to use. One last cost would be the installation cost, but this shouldn’t be too expensive, as this installation process should be less than a day. The new system should be able to help reduce costs associated with storing and purchasing pharmaceuticals. This is because the new system will help increase communication between doctors and pharmacists, so that pharmacies don’t have to make orders of repeat drugs, and make sure to get medicine into the hands of customers faster.

The research for this project was done by interviewing a few pharmacists in the Charlestown area to see how they keep track of their customers, and inventory. Our system is designed for pharmacies, so it was the best way to figure out what our system needed to do as well as what Improvements can be made to existing systems. This research revealed two major issues that currently is in the current systems. One issue is that there is next to no communication between doctors and pharmacists, which usually causes multiple of the same prescription to be placed, and pharmacists don’t know about any canceled prescriptions. The other major issue is that current systems don’t have a clear and apparent way to communicate with pharmacists about expiring refills, or un-picked up prescriptions. Including a solution for these issues would allow this system to compete with other similar systems.

An online pharmacy system that not only pharmacies can have and use in their store, but also all other medical clinics that can communicate with each other by selecting the preferred department. For example, a dentist can use the designed software to send the prescribed medications to a pharmacy close to the patient residence. But the idea we rejected because there is already a software that health institutions use which has the same functions. The project requires time and many features that support its functionality;therefore, it will cost more.We can still build a successful system with affordable cost. We must first determine the problem and requirements. In this case, our persona is the pharmacist in an independent pharmacy store and cannot afford an expensive system. Not to mention, the software life cycle is plan, analyze, design, implement, test, and maintenance. So, maintenance will be provided to the software after release which includes updates and enhancements to the product to ensure attributes meet the following important factors: responsiveness, reliability availability and security.

A risk can lead to the failure of the project is the advertisement of it. We must consider that our user must know and trust our product to use in their store. We must ensure that our product is being recognized in the market to attract our targeted clients. If users do not know our product exists, then we will not be able to sell it. Even if it meets all requirements of satisfaction. Since the software will be counted on to run the business, advertising the product to present integrity and strong trust relationship between the developer and the user is important to prevent risks of project failure.

Feasibility report by Team Pharmacy:

Tommy Woods – Team Lead

Huda Ali

Mustafa Nafia