**Preliminary Investigation**

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ITS-465: Senior Project

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I propose to develop a database management system for a hospital that includes security and storage functionalities in reference to employee, patient, and department This system will seek to allow employee’s entrance and storage of patient information into each hospital department, respectively.

Hospitals for some time now have encouraged the integration of IT systems within the healthcare industry to cut down on the need for old way of storage with paper and cabinets of information with this project, hospitals will be able to improve upon their day-to-day business operations.

The scope of this database will encourage security from the top to bottom as any interception of employee credentials or patient information can cause the hospital an innumerable amount of money lost by way of lawsuits and loss of trust of patients (which will lead to loss of business).

In addition to that, reliability will also be key focus in the construction of the database system. Employees should be able to access patient’s data in a swift time frame in order to better serve everyone that arrives. The less time that the employees spend on trying to access the system and scour for each patient’s information is more time spent providing excellent medical care.

Per [intakeQ](https://blog.intakeq.com/this-is-how-much-it-costs-to-keep-patient-data-safe/): In March of 2017, an estimated [106,000 patient records](http://www.healthcareitnews.com/news/106000-patient-records-potentially-breached-3rd-party-vendor) were breached in a single incident with a third party vendor. Along with the average data breach in a healthcare system being approximately $4 million.

With this system, we can cut back on that by implementing security among the patients records and in addition to finding a solution to combat breaches whether it be [stronger antivirus, network segmentation, or a stronger form of identity authentications.](https://www.cybernetman.com/blog/healthcare-network-segmentation-strategy/)

