

Project Proposal - Hospital Management

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Hospitals are very large complexes with many delicate and sensitive goings on happening day in and day out. In order to continue to keep an operation of that size and sensitivity running smoothly, the database management of the hospital must be kept very well. For this reason, I believe that it would be a good model on which to base my project.

For the entities within the database, I have envisioned 5 that are most important: Patients, Doctors, Nurses, Operations, and Department. I believe that these entities will be the most important for the hospital to keep track of. The nature of the relationships between the entities necessitates that there will also be many relationships within the database between all of the five entities.

In the best case, this project would be built using some kind of web development framework such as Spring or Django. Given enough time, I believe that a web-based application would be the best way for the user to interact with this database. However, if time constraints become too great, I believe it will be in the best interest of the project to continue designing the application without a framework. Additionally, I believe that this project should be designed using MongoDB. This is based on two prescient factors: 1. The prevalence of MongoDB in modern enterprise applications 2. The lack of SQL, which would provide valuable experience.

