INFO5100 Application Engineer & Dev Group Name: Katakirrr

**Project Proposal**

**Project Members**

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**Project Topic: Emergency case management for Hospitals**

**Overview:** Three of the five patients coming to an Hospital are the cases of emergency. Hence it is imperative for the administrative staff of the hospital to be fully prepared for any kind of emergency cases. The objective of our application is management of these resources which will help the staff handle these cases efficiently.

**Entities:**

1. Our application will allocate available doctors, nurses, ICU rooms and wards with available space to the Emergency case
2. Further, the allocated doctor will be able to raise a request for any Lab test, Organ, Blood required by the patience
3. Pathology lab: will receive the request and samples and will be able to upload the results for the doctor to refer
4. Organ allocation department: will receive the Organ request made by the doctor, it will check the available organ database and allocate the required organ to the case if available. If the organ is not available in the hospital, an organ request will be raised which will go to other hospitals.
5. Organ allocation department: The Donor and Seeker should have organ compatibility to transplant the organs and perform tests specified as below:
   1. Blood type matching
   2. Tissue matching
   3. Cross-matching
   4. Urine test
   5. Body size
6. Blood bank: Blood bank will receive request for the blood, it will allocate if available or raise a request to other blood banks if not available
7. Surgical Instruments: The nurse will check and request for the required surgical instruments or things required for the doctor to the hospital medical supplies
8. Medical Supplies: Contains the medical instruments and supplies, checks the database and provides the supplies as and when requested
9. Donor and Seeker Database-Admin will manage all database like UserIds, Passwords, Contact details, Blood details, Organ donation details of Donor/Seeker
10. Blood banks should be able to send and receive request through email