

# Final Project Proposal

Group: Not at all

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Our final project is about the hospital information system which will help us manage the relationship between hospitals and patients. Under the operation of this system, the patient will be allocated to the doctor according to its case so that the efficiency of treatment will be enhanced. Theoretically, the system will perfect solve the problem of unordered link between patients and medical services because the detailed allocate depends on the patient case.

Apparently, the system is expandable at the global level because for some common issues, the resources can be shared and patients in similar common cases will be treated more efficiently. On the other hand, for some extreme cases, the cases can be gathered together by the system so that the medical team for the cases will focus on all the cases at global level.

From the diagram, we can see that from the system we can get the hospital directory. In the hospital, we can get the employees and the departments. Meanwhile, we can get the case list from the system so that we can get the case directory. Afterwards, the doctor/nurses from the employee and the case directory can participate in the patient case, which will help the patient. Medical center will also participate in.

The eco-system will be built between multiple enterprises joined together. From the diagram we can see that the hospital, the case list and the external medical order work together to run the system and order medical care to the patient cases. For patients, detailed medical care will be allocated to a user. For the manager of the system, the data of the hospital and cases will be managed. For a doctor, only one patient will be

treated by one doctor so that there will be a waiting list shows whether the doctor is able to accept new patient.

The program will be based on java so that errors may occurs. In this program, we have to avoid the error. Therefore, exception handling is essential if the program should be bug-free. We will use MySQL as external database to store the data. As a user-oriented application, UI and UX are important. UI should be simple and beautiful. Meanwhile, Java Swing Alerts Dialog will be used.

Our eco-system architecture diagram will be attached.

