**Final Report of Hospital Information System**

Group: Not at all

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Our final project is about the hospital information system which will make user (patient) easier to register in a hospital and get diagnose and medicine. Meanwhile, the roles in the hospital system and medical system can operate as who they are. The system is designed for enhancing the efficiency of medical service.

Before designing the system, the problem is that how to connect and react between different organizations in different enterprise. Furthermore, how to handle the method with a linkage of more than two entities is an essential issue. After the framework finished, how to handle with the interaction to reduce coupling in order that we can do more extension on the basic framework.

To solve these problems, we separate the entities in different layers and create a WorkRequest class to handle the interaction between different roles, just like the example in the ecosystem. For example, the interaction between the buyer in hospital’s purchase department and the salesperson in the medical enterprise is a work request with the specific information of the purchase.

Meanwhile, the account management is essential as well. The account type will be separated by different enterprise type and different roles in different organizations. The limits of authority are different, but different roles in one organization will be administrated uniformly.

When we were preparing our proposal about this system, we imagined that the organizations can interact mutually in different networks. In the system, we realize this by work request. In the system, hospital and medical in different Network can interact each other. That means the system is expandable at the global level. Furthermore, if you utilization the system as a patient to see a doctor, you can get medicine from any medicine enterprise in the word, as long as the medicine enterprise is in the network.

On the database layer, we use db4o as inner database, which help storing the user information and operation of the system. That can keep our data safe and easy to read and write. We used external jar file to polish our user interface, which can be both simple and beautiful.

Object Model

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Design Model

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Demo ModleA screenshot of a cell phone

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Purchase medicine

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Assign nursing fee

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**We can input the treatment result in box**

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