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## Assignment 3 Section 6

Ellipse Hospital is a renowned hospital that uses a simple hospital management system named XYZ hospital management. The XYZ hospital management component is dependent on the access of data from four components Hospital, Patient, Doctor, and Nurse. These four components provide an interface named “readData”. There is another component named Appointment which provides two interfaces “setAppointment” and “getAppointmentDetails”. The Hospital, Patient, and Doctor component implements the “getAppointmentDetails” interface while the Receptionist component implements the “setAppointment” interface. There is three more components named Synchronization, Database, and Security. The “dbConnector” interface is provided by and required by the Database and Synchronization component respectively. Both Security and Synchronization Component provides three crucial interfaces “accessControl” and “Encryption” and “Decryption” that is required by all of the components except XYZ hospital management and the Database component.

**Design a Component diagram based on the above information.**

In our Community management system, There are 4 external agents and a data store. And the process is a community management system. Here the manager checks the donation fund and approves donation fund information also the process updates the donation data. Admin inputs



update of the information in the process. Donor donates in the system and the regular user applies for donation funding and gets approval of the information from the process. Also, Donor and donation amount gets stored in the donation fund data.

1. Draw the context diagram based on above scenario.

By breaking the above community management system, we get 2 sub processes. Manager inputs checks donation data flow in handling donation fund data process and gets output of updated data. Manager also approves donation fund application in managing donation process. Admin updates information in handling donation fund data process also the process store donor and donation amount in donation fund data store. Donor donates amount in managing donation process and regular user apply for donation funding and gets updates on the information from the same process. There is also data-flow between the two processes, handling donation fund data sends donation fund condition data flow to managing donation process.

2. Draw Level-1 diagram based on above scenario.

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