Case Discussion

- Use case, domain models and requirement

Case 1 DOMAIN/ CLASS AND USE CASE DIAGRAM:

- Hospital Management System helps register information about patients and handles their queries. A unique ID is generated for each patient after registration. This helps in implementing customer relationship and also maintains medical history of patient. This system also monitors the doctors appointment, when the ID is generated the patient receives the appointment time and number from the receptionist and accordingly visit the doctor. This system also deals with testing appointments as when ID is generated the tests can also be booked and the patients are issued test appointment time and accordingly undergo tests.

- It also deals with bed allotments to various patients by checking their IDs. It also undergoes various operations by diagnosing patients. The system identifies whether the person is a doctor or staff and handles varies activities such as draw salary and compute salary. It also adds doctor / staff information into the database. This information can only be added by the admin which are also employee of the hospital. This system is also responsible for handling various activities like deleting, editing doctor/ staff information. As per doctor diagnosis, patients gets treatment, gets suggestions from doctor and prescribe lab test and medicines. This info is also stored. The system also take care of medical equipment, doctor visit, vitals recording, patient case sheet, diet ordering, blood requesting, transfer info, discharge info, maintenance of wards, inter and intra wards transfer. It also generates patient's discharge summary which includes patients health at the time of discharge, medical history, various diagnosis and drug prescription, history of patient illness and course in hospital. Patients can pay bill through credit card, cash or cheques which are recorded in the system.

Case 2: Online Leave Management System

- The system allows OSOFT university to manage the leaves of the staff members and also allows sanction of leaves request.

- The login information shall be verified within 5 seconds. Staff can check their number of leaves, leaves availed and leave remaining. Staff member can also put a request for a leave in a very pretty interface to the concerned department head and get approval. The load time for User Interface shall not take longer than 2 seconds. Leave request and leave sanctioned tp staff members can be checked and evaluated by the administrator. The admin can approve the request and send confirmation to the leave applicant. Customize reports can be generated of leave taken by different people during a period and so on. The system must confirm to data protection legislation. Also the HR dept can make entries and queries based on manual leave application by the staff. Queries shall return results within an hour. The system shall consume very less primary memory. This system will be developed in Java. Java is an OO language and easy to maintain.

- **IDENTIFY FUNCTIONAL AND NON FUNCTIONAL REQUIREMENTS**