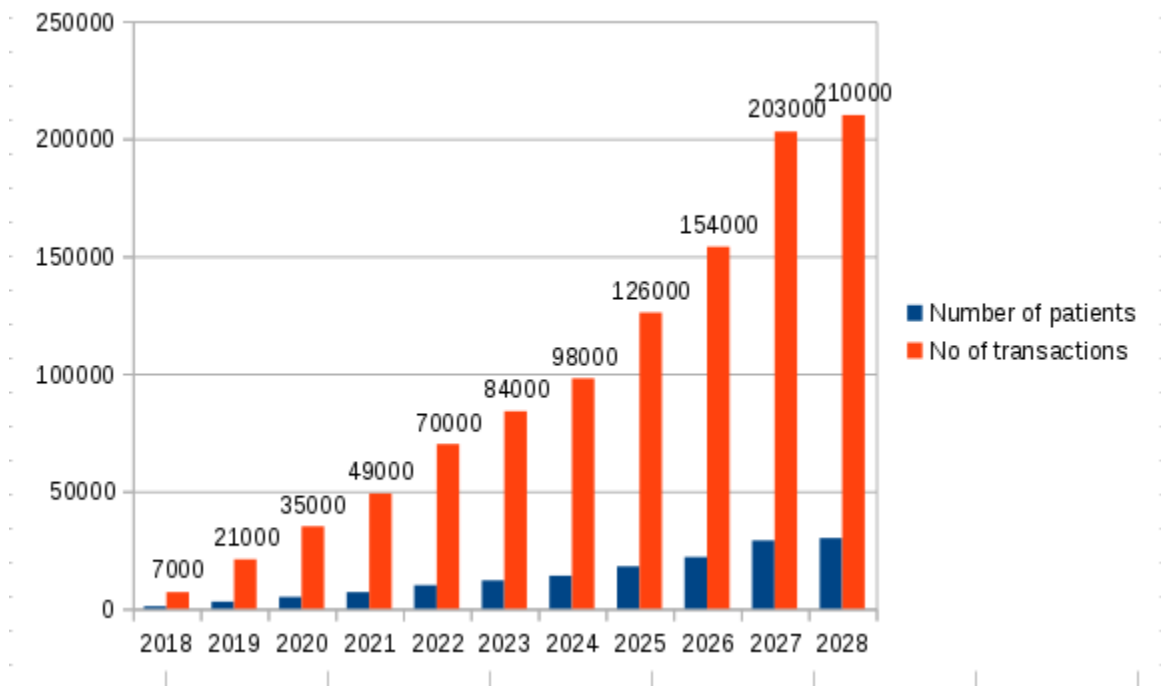**Aim:** XYZ hospital is a multi specialty hospital that includes a number of departments, rooms, doctors, nurses, compounders, and other staff working in the hospital. Patients having different kinds of ailments come to the hospital and get checkup done from the concerned doctors. If required they are admitted in the hospital and discharged after treatment.

The aim of this case study is to design and develop a database for the hospital to maintain the records of various departments, rooms, and doctors in the hospital. It also maintains records of the regular patients, patients admitted in the hospital, the check up of patients done by the doctors, the patients that have been operated, and patients discharged from the hospital.

The hospital projects growth as the above over a ten year period.

Questions:

Part I:

To implement the information system
1. Suggest hardware resources needed
2. Suggest software resources needed
3. Suggest human resources needed

Transaction:
Number of entries into computer system
e.g. A patient is admitted and her information is entered into System
The patient has been allocated a room and that informtion is entered
The patient has been assigned a nurse and that information is entered
The patient pays bill
The patient

Part II:
Please describe your rationale for your suggestions in questions in Part I

Part III:
Summarize what skills you need as a an IT Manager to make the decisions in implementing the Information System

What information system is needed?

Please describe what information system is needed in the following scenarios:

1. In a hospital
2. In an e-commerce site such as rokomari.com
3. In a mobile business such as Pathao/Uber
4. In an educational Institute such as AIUB
5. In a cell-phone company, such as Robi/Grameen
6. In an airline ticket reservation system such as Bangladesh Biman
7. In a vehicle repairing shop
8. In a restaurant
9. In police department office
10. In a government office such as voter ID card department