



Daffodil
International
University

Department of Computing and Information System
Midterm Assignment: Summer Semester-2021
Course Code: CIS 223
Course Title: Management Support System
Title: Hospital Management

Bangladesh has been witnessing an alarming rise in coronavirus cases over the past several days, prompting the government to deploy the military to the nation's streets to ensure that people stay indoors and don't violate lockdown restrictions. The surge in the South Asian country's COVID infections is blamed largely on the highly infectious delta variant first detected in India. The government has deployed the military in an effort to control the surge in COVID infections, which are blamed largely on the highly infectious delta variant. Hospitals are struggling to cope with the growing number of patients, particularly in areas bordering India. Some rural towns have recorded infection rates of about 70%, underlining the magnitude of the problem facing the health system.

Most of the Hospital is a large hospital which uses a computer network to link the reception and the Administration Department. When a patient is admitted to the hospital, he or she is asked to complete a paper-based form with his or her personal details and any medical data. Analog system of paper-based record has been totally performed in this regard. Sometimes patients suffer a lot for this paper-based works. If the patient has not been in the hospital before, a new record is created for them; if they have been admitted before, their previous record is updated some digital system where digital system has been deployed. The patient records database is updated once a day. The original form is then taken and placed in the patient's folder in the Patients' Records Department. When the patient leaves the hospital, their patient chart is taken to the Administration Department where the data-entry staff enters information from it into the patient records database. The patient's chart is then taken to be stored in the patient's folder in the Patients' Records Department. The manager of the hospital is very concerned about the current scenario and has met with various senior staff. After much discussion with others, it has been decided that a new information system is required.

[Instructions: Give clear and concise answers for every subtask. Use examples if necessary]

Total Marks: 35

Subtask 1: [14 marks]

- a) Analyze the type of decisions to be handled the current COVID patients who are newly admitted in hospital. [7]
- b) Briefly design the block diagram of new information system should be developed in hospital. [7]

Subtask 2: [10 marks]

- a) Design a decision tree to represent the decision-making process of the administrative department in the new system. [10]

Subtask 3: [Technical tasks, 11 marks]

- a) Which steps you would take if you were a manager of that Hospital where still analog system have deployed. [6]
- b) Evaluate your overall tasks from the side of top-level management. [5]

General Instructions:

- ❖ **You have to submit the assignment in .docx or .pdf format (name it with your ID, such as 183-16-678.docx), zip the file if any necessary document is needed.**
- ❖ Marks will be deducted accordingly if any plagiarism of work is provided.