

INFO 5100: FINAL PROJECT

MEDICAL EQUIPMENT MANAGEMENT SYSTEM

Problem Statement

The problem faced by hospitals these days are incapability to afford multiple heavy types of machinery which are highly priced for various departments, and non-availability of newly invented machinery. Due to this inconvenience hospitals are unable to perform proper diagnosis for any disease to the patient.

Purpose

Inability to perform proper diagnosis due to lack of machines leads to improper treatment of disease to the patients. To overcome this issue, we help such hospitals by providing machines on rent or loan basis. These are provided by companies who manufacture them or those, who trade them at low pricing.

Also, availability of recently invented machines is an issue for hospitals located in remote areas. To solve this issue, these companies provide machines to those hospitals which are located in remote areas and have no access to such facilities.

Solution Proposed

To overcome the above problems, we are designing a system that provides machinery to the hospitals based on rent or loans. Targeted users will be hospitals, clinics, laboratories, University health care, and people (for the small machines like Blood pressure measuring machine). By this idea, the hospitals need not spend such huge amount at one go on machinery and can access in affordable installments. Our system will deal with the loan repayments from the hospitals for the machinery used by them. Maintenance and other services will be taken care of by the system itself. Alerts will be generated if there are delays in the scheduled payments and appropriate actions will be taken by higher authorities if there are constant delays in the payment. Our System will help hospitals to predict the number of machines that they can take on rent, on basis of number patient they treat frequently.

In addition to this, Research and Development department of Manufacturer Company will provide better machinery and other parts of the machines in future based on the feedback and complaints received from the doctor. Our system will provide assistance to the users for use of machines by guidelines.

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