A WEB-BASED BLOOD BANK SYSTEM FOR MANAGING RECORDS

PROJECT REPORT

Submitted By

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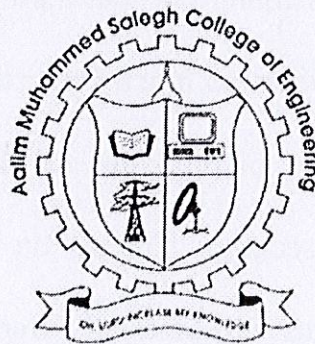## MOHAMED ASWERDEEN M.
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ABSTRACT

Blood transfusion safety is a relevant and significant public health issue. Since most blood banks are still in paper-based system, various disadvantages are experienced by various stakeholders, which endanger the lives of patients and deter the health-care system. As such, the researchers aimed to design, develop, and implement an online blood bank management system (BBMS). This web-based application allows hospitals to make inventories of their blood bags online, subsequently, allowing each hospital to check the availability of blood bags anytime. The researchers designed and administered a questionnaire that assess the perceptions of various stakeholders in both manual-based and BBMS. Based on the findings and results, it was found out that these stakeholders perceived online blood bank management system is much better than the manual system. Therefore, with the use of online blood bank management system, blood transfusion process is safe and secured. Threats on improper blood donor documentation, or misplaced records will be totally eradicated. Also, processes involving recording about blood donors, blood bag collection, storage, and inventory will be systematized and organized, hence, improving the health-care management for blood banks.