



Sri Lanka Institute of Information Technology

Information Technology Project

Year2, Semester 2 - 2022

Project Charter

Title of the Project :	Hospital Management System	
Batch :	4.2	Group No:
Development Technology :	HTML,CSS,Bootstrap,jquery,jsp,java,MySQL	

Description of the Project:

The newly proposed hospital management system is a fully computerized system which can be considered as a replacement for the existing routine of tasks carried out manually in a typical hospital without using any computerised systems. New system is intended to develop using better data retrieval and manipulation techniques, enhanced searching algorithms, improved security constraints and cutting-edge technologies in order to handle problems of the existing system. New system will be able to coordinate and manage major functionalities like Administration and monitoring, Appointment and scheduling, patient and ward management, Inventory and stock management, payroll management, Cash and billing, pharmacy and medicine, Laboratory management in a fully computerized way

As demands for better treatment and diagnostic procedures continue to rise, it is best for healthcare organizations, especially hospitals, to upgrade their infrastructure and automate their systems. Through an effective automated system, the hospital can reduce operational costs, enabling the savings to be utilized in the development of better facilities. With the implementation of an automated system replacing the existing manual system, the hospital will be able to treat patients in a better way by accessing their real-time reports and other information regarding the patients. This system reduces the workload of employees and improves the speed of the complete processes and thus provides better results with fewer errors.

One of the main benefits of this hospital management system is it addresses all the departments in a digital automated manner from a few clicks away. Rather than going department by department and doing paper work manually, this makes hospital management more effective and efficient. Relative to previously used manual hand coordinated systems, this hospital management web application makes all the work automated and bound all the departments altogether. As earlier, managing hospitals is a crucial thing where there is no scope for errors. From a one single error could affect all the system to a failure. A manual system can not assure precise accurate processing. Implementing this new improved automated management system reduces the human error cost far greater than previous manual processing.

In this hospital management system most highlighted areas are Administration and monitoring, Appointment and scheduling, patient ward management, Inventory and stock management, payroll management, pharmacy and medicine, Laboratory management and vehicle management.



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Details of the Group Members: *(Provide the details of the group leader in the first row)*

	Name with Initials	Registration Number	Contact Phone Number	Email
1.	Sachin harshitha W G	IT19013374	0783100177	Sachinharshitha179@gmai.com
2.	Gunawardena W A T R	IT19395210	0702748520	tharugunawardena10@gmail.com
3.	Wickramasinghe T V	IT18073706	0705587045	tharuvidu@gmail.com
4.	Sharmelan G	IT20125370	0772265166	Sharme2104@gmail.com
5.	S N D N Deshan	IT20089054	0750992453	dimuthunadeera3@gmail.com
6.	W A U K Surakshana	IT19160030	0716533415	udanakesara@gmail.com
7.	Jayasinghe H D D P	IT20667832	0778535417	Dineshjayasinghe11@gmail.com
8.	Ranasingha R A M K	IT13131852	0714046914	madushi.ranasingha@gmail.com



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List of Functions Developed by the Group Members:

	Name with Initials	Brief Description of the Function
1.	Sharmelan G	<p>Laboratory staffs can login to laboratory sector. It contains patient's lab reports. It has report ID, Patient name, Patient NIC, Date, Gender, Blood group and patient's medical details.</p> <p>Laboratory staff gather the patient's report details and update to system that doctors can easily access their patient's report using this web application. Every report and patient has unique ID, using this doctors can easily search and get to know about their patient's lab report.</p> <p>Lab staff can add new reports. According to the need of patient's continuous medical supervision lab staff can update their reports regularly. Also staff can delete records of patient's with doctor's advice.</p> <p>According to doctors request lab staff can generate patient's monthly report.</p>
2.	Gunawardena W A T R	<p>Manage users who are channeling specialist doctors and allow them to search for doctors and make appointments. maintain scheduled date and time for appointments and doctors fee.</p> <p>Maintenance of doctors information.</p>
3.	Sachin harshitha W G	<p>physician , doctor and patient can only view details</p> <p>if anyone put wrong password display error you have only 3 attempt please try again</p> <p>Non medical staff's information</p> <p>admin can search each detail</p> <p>each member can generate report also they can generate total month revenue</p> <p>physician, doctors and patient can log the system there user name and password</p> <p>only admin can add, delete and update</p>
4.	Wickramasinghe T V	<p>Manage Inventory and stock data in Hospital and update ,delete, add inventories. The management staff of the hospital can log in to monitor and manage the stocks and inventory in the hospital.</p> <p>Each type of supplies and pharmaceuticals will have their own name, unique ID, stock levels, expiry dates, unit prices and</p>



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		reorder levels. New types of supplies and pharmaceuticals can be added and pre existing ones be removed at any given time or updated to meet the latest changes. The system will notify the user to refresh stocks once the reorder levels or expiry dates are reached. A report of monthly dealings will be generated at the end of each month.
5.	S N D N Deshan	<p>Patient ward management is one of the main function in the system. It has two categories. There are opd ward ,accidents ward and surgeries ward .This function can be manage patient ward section. Doctors or nurses can insert, update,delete patient details in the system and can be search patient details.</p> <p>This function has a medicine section. Doctors or nurse can insert, delete,update medicine details.</p> <p>This function has another part. It is marking attendance of doctors and nurses in the ward. All doctors and nurses who comes first to ward should add their own details in to the system. All these details will be stored in system database</p>
6.	W A U K Surakshana	<p>Manage medicine information and patients information and generate reports about medicine</p> <p>Patients can log in through this system and find out the medicine they need. Each patient will have their name, NIC, blood group, gender and age in the system. After the patient enters the details, they can log into the system and know the relevant medicine. Admin, doctor and patient can view the details.</p> <p>Admin and doctor can add, delete and update in the system.</p>
7.	Jayasinghe H D D P	<p>Manage administrative hospital procedures, from employing staff to creating work schedules and communicating with doctors to budgeting and maintaining supplies</p> <p>all employees are working to shift base system. include night shift and day shift. we inform start time and end time their shift. after we collect their attend after calculate their OT (over time) and update the database. admin can insert, update,delete this data .</p> <p>doctors can search staff members who work for shift and they can inform any special message for staff .</p>



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		Doctors and Nurses can search, insert, update, delete what they want. We collect details of what doctors and nurses use and what they want and we calculate all the details and create a report.
8.	Ranasingha R.A.M.K.	Vehicle information are entered in to the system using insert button and details can be update using respective buttons. The hospital will provide a vehicle id for every vehicle. System logs each time the vehicle enters and exits the hospital. Also can view available vehicles including ambulances at the moment. If a breakdown is reported, then it can be inserted into the system and by using the system can assign another available vehicle. System can generate vehicle detail reports.