



HOSPITAL MANAGEMENT SYSTEM



Group Members

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Introduction to the system

- Hospital management system is a computer system that assists in the proper management of health-care information and the work completion of health-care providers.
- This hospital management system is especially important in healthcare industries like hospitals, clinics, nursing home etc.
- Maintaining records of patient, keep track of the appointment dates tracking bill payments, regularly updating medicine stock informations are the hardest part in health-care centers.
- These industries need to take advanced technology so that can offer high quality services to their patients.
- This application contains time saving, reduce scope for error, cost effective and easily manageable, user-friendly benefits for the above problems.
- There are many tasks that the software can do much faster than human being for that this hospital management system will help us to achieve it.

Problems

- Lacking an efficient way for patients to make appointments as well as for doctors to keep track of and manage those appointments.
- Keeping records and tracking various aspects in the hospital such as lab reports, pharmaceuticals and inventory
- Inability to efficiently manage wards and patients
- Poor preparation of accurate reports
- Lack of Immediate data retrieval

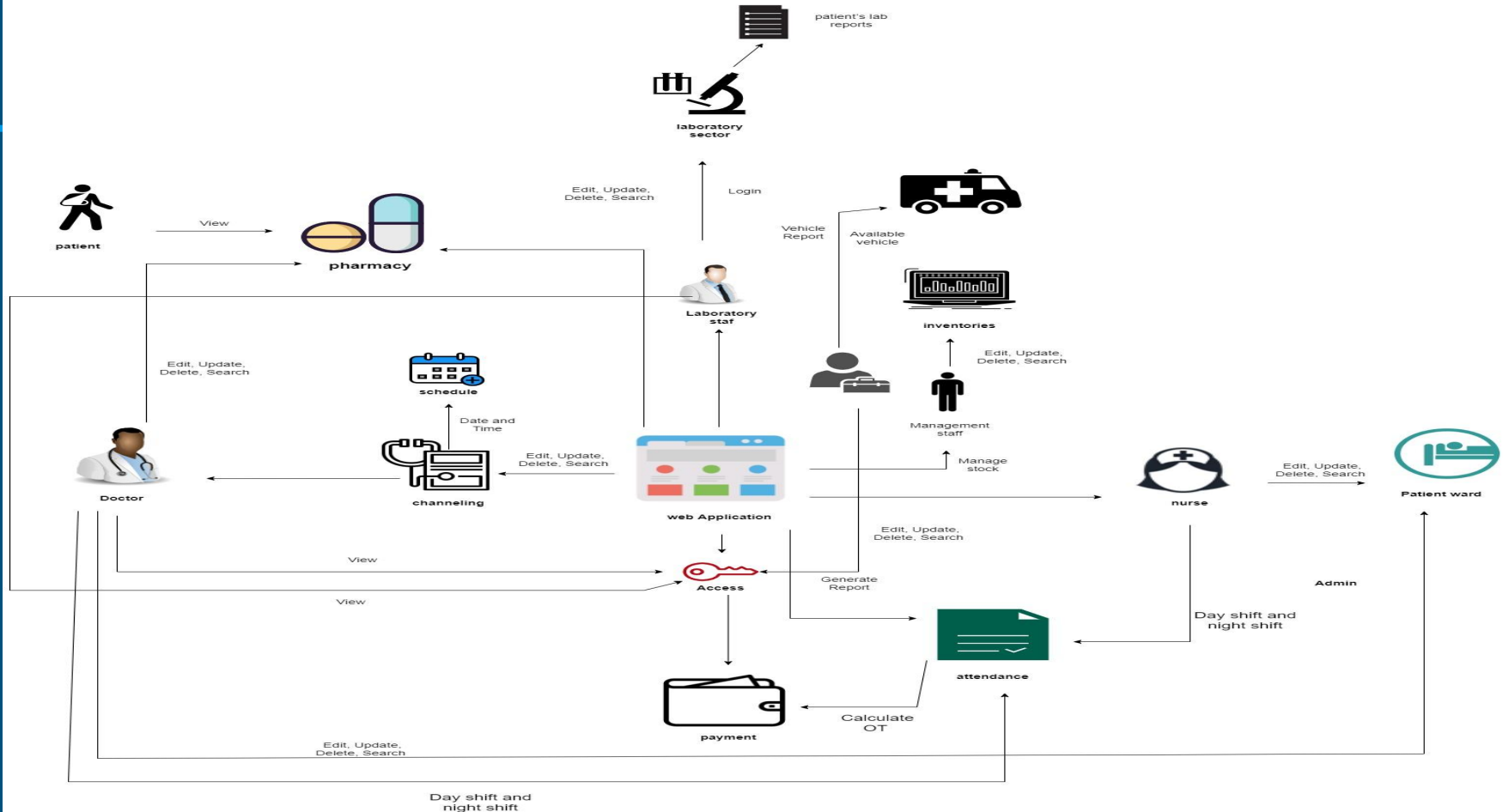
Solutions

- Setting up a database to store the various types of reports and information.
- Implementing a system with a user interface to allow all types of users to access and modify this database instantly in accordance to their access levels.
- Write a procedure for automated reports.

Benefits of the proposed system

- Reduce time consumption
- Increase accuracy
- Enhance information security
- Increase activity productivity
- Make real time updates

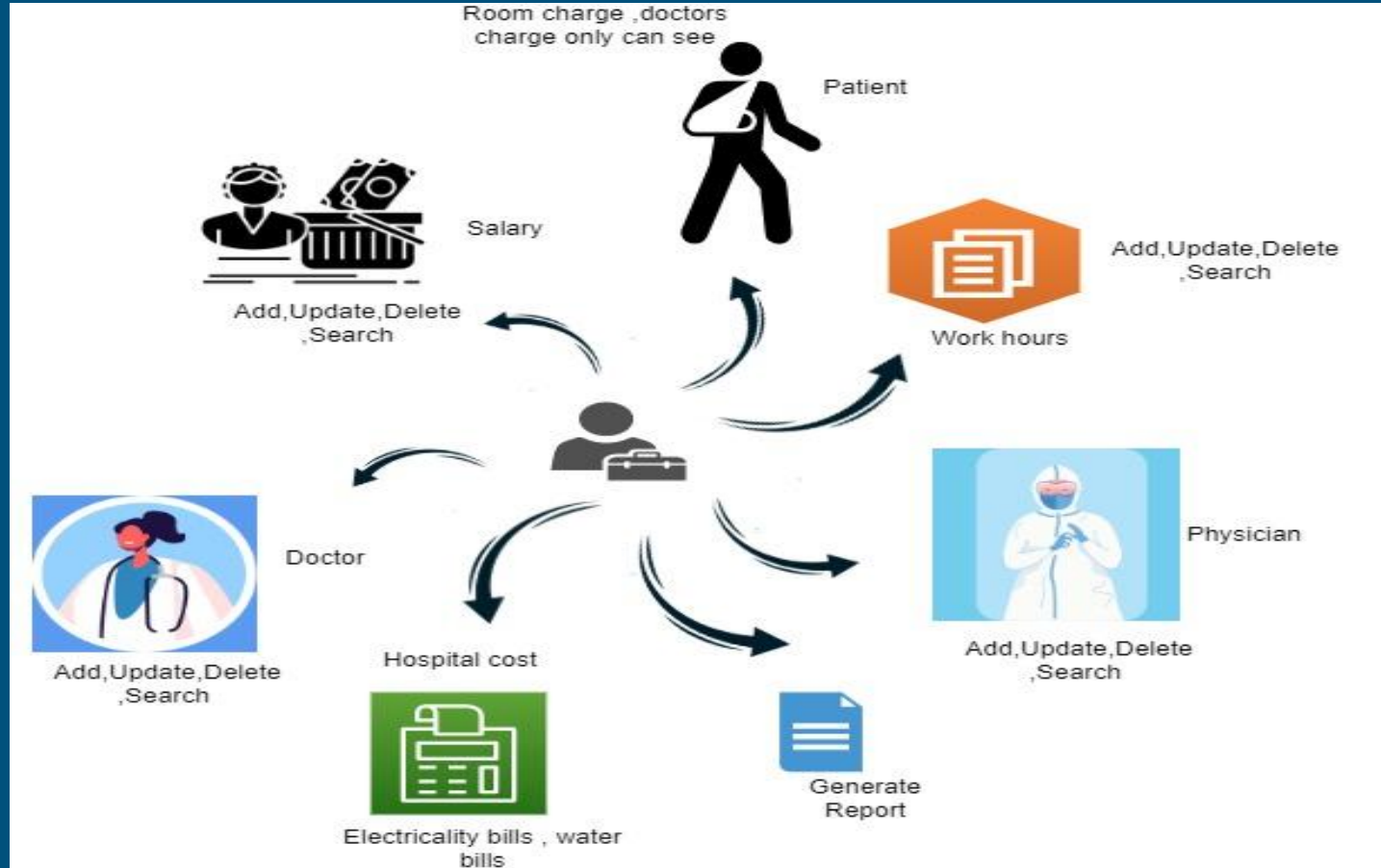
System Overview



System Functions

1. Payroll Management
2. Doctor Appointment Scheduling
3. Laboratory Management
4. Patient and Ward Management
5. Pharmacy and Medicine Management
6. Inventory and Stock Maintenance
7. Administration and Monitoring
8. Hospital Transport Management

Payroll Management



Doctors Appointment Scheduling

- Patients are allowed to search for a doctor according to their preferences.
- Patients are allowed to make an appointments and cancel appointments and browse doctors' profiles.
- Doctors are allowed to view all the appointments that they have.
- Both Patients and Doctors are allowed to update their profiles.
- Only the patients can delete their accounts.

Laboratory Management

- Lab staff can login to the system and get access to the page.
- Lab staff can add, update and delete every patient's lab report details to the system.
- Only lab staff is allowed to update patient's report with doctor's concern.
- Doctor can search for patient's report using patient id (NIC) and also can get particular report using report id.

Patient and Ward Management

- Nurse or doctor marking their attendance first.
- Nurse or doctor can login the system and they can manage it.
- Nurse or doctor can insert,update,delete patient details.
- Nurse or doctor can search patient details.
- Nurse or doctor can mange medicine section.
- Nurse or doctor can insert,update,delete medicine details.

Pharmacy and medicine management

- Doctors will provide a patient id for every patient.
- If need any changes for medicine, details can be edit, update, delete by the doctor.
- Patients can log into the system and search their id, then allowed to view the medicine from the system.
- Patients can contact the pharmacy through the system.

Inventory and Stock Management

- The hospital management staff can log into monitor and manage inventory and stock.
- The management staff will be allowed to view, add, update and delete inventory and stock data.
- The system will notify the staff that reorders are necessary once the reorder levels or expiry dates of items are reached.
- A report of a month's dealings will be generated at the end of each month

Administration and monitoring

- The hospital staff can log into system and easily view their shift times update by admin.
- Doctors will be allowed to search,view, add, update and delete.
- Doctors can view their nurse team and informed special message to them.
- Nurses can search and their shift time and special messages informed by Doctors.

Hospital Transport Management

- Vehicle information can entered into the system.
- Details can be updated if you need to make any changes using update function.
- 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.

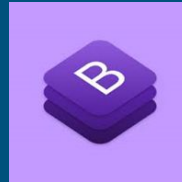
Tools and Technologies

Technologies :

- Java
- HTML
- CSS
- Bootstrap
- JQuery
- Mysql
- Spring boot



Tool: Eclipse



Work Distribution among members

Entire Team :

- Discuss Team Project
- Discuss Flow of Project
- Analyse problems
- Design Diagrams
- Preparation of presentation

Each member individually:

- Design Application Interface
- Build Interface
- Insert Coding
- Link Coding with database
- Complete the coding
- Make a report on functionality

Work Distribution among members

Student Name	Function
Sachin harshitha W G	Payroll Management
Gunawardena W A T R	Doctors Appointment scheduling
Wickramasinghe T V	Inventory and stock Management
Sharmelan G	Laboratory Management
S N D N Deshan	Patient Ward Management
W A U K Surakshana	Pharmacy and Medicine Management
Jayasinghe H D D P	Administration and hospital procedure Management
Ranasingha R A M K	Hospital Transport Management

WORK	WEEK	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Discuss Topic Project.															
Discuss Flow Project.															
Analyses Problems.															
Design Diagram.															
Design Application Interface.															
Build Interface.															
Build Database.															
Insert Coding.															
Link coding with Database.															
Complete the Coding.															
Make Report.															
Prepare for Presentation.															
Presentation.															



THANK YOU