



# ADMIN-ONLY HOSPITAL DATA AND STOCK MANAGEMENT SYSTEM

COMP50016: Server-Side Programming-2

[Abstract](#)

A Proposal for Streamlining Administrative Operations at the National Hospital of Sri Lanka

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## **1.0 PROBLEM STATEMENT**

The National Hospital of Sri Lanka struggles to handle its large amount of hospital data well. This includes patient files, staff schedules, and lists of medical supplies. The old systems they use now lead to wrong data poor supply management, and slow choices. These problems can hurt patient care and how they use their resources. Also, the hospital can't see data right away or control who sees what information. This makes it more likely for things to go wrong or for people to see data they shouldn't. To fix these problems, the hospital needs a better, safer, and simpler way to work. This would help them run things better, have more correct data, and keep better track of what's going on.

The proposed web app for admins only tries to solve these issues. It gives the hospital a centralized platform to manage all its data and supplies. This should help them work better and make smarter choices, improving efficiency and patient care.

## **2.0 PROPOSED SOLUTION**

To address the administrative challenges faced by the National Hospital of Sri Lanka, the proposed solution is a secure, web-based admin-only application designed for hospital data and stock management. This system will enhance the hospital's administrative tasks by providing a centralized platform that improves data accuracy, stock management, and decision-making capabilities. The system is intended for use by the hospital director, duty director, and other administrative staff.

*Key features of the proposed system include:*

- **Data Management:** The app will store and handle important hospital info, like patient files, employee details, and medical stock. This makes sure all data stays current and easy to find for people who have permission to see it.
- **Stock Management:** The system will keep an eye on medical supplies and gear as they're used letting admins see stock levels, cut down on running out or having too much, and order new supplies when needed.
- **Reporting and Analytics:** Full dashboards and live reports will give hospital admins useful info about how things are running helping them to make choices based on data to boost efficiency and patient care.
- **User Management with Role-based Access:** The system will use role-based access control making sure people with permission can see sensitive info. This will beef up data security and privacy guarding patient records and hospital operations.

By implementing this solution, the hospital will experience improved administrative efficiency, better resource management, and more accurate decision-making, leading to enhanced patient care and streamlined operations.

### **3.0 ASSUMPTIONS AND CONSTRAINTS**

#### *3.1. Assumptions of the system*

- The following assumptions were made while the system was being developed:  
**Internet Connectivity:** It is assumed that the hospital will have reliable internet access, as the system is web-based and requires constant connectivity to function effectively.
- **Authorized Users:** Only authorized personnel, such as hospital administrators, the director, and duty directors, will use the system, ensuring that data remains secure and confidential.
- **Training:** The hospital staff will undergo adequate training to effectively use the system and its various features, such as data management, stock tracking, and reporting.
- **System Maintenance:** The hospital will provide necessary resources for regular maintenance and updates to the system to ensure its smooth operation.
- **Existing Infrastructure:** The hospital's current IT infrastructure will be sufficient to support the system without requiring major upgrades or changes.
- **Data Accuracy:** The inputted data (e.g., patient records, stock levels) will be accurate and timely to ensure that the system functions correctly and provides valid reports.

#### *3.2. Constraints of the proposed system*

The following constraints were considered when developing the system for NHSL:

- **Training and Adoption Time:** There may be a learning curve for staff to become proficient with the system, and the time required for training might impact the hospital's operations temporarily.
- **Data Security:** Since the system will store sensitive information (e.g., patient records), there is a critical need to ensure robust security measures, including data encryption and role-based access control.
- **Integration with Existing Systems:** If the hospital has any legacy systems or software, there may be compatibility issues that need to be addressed during the integration phase.
- **Compliance with Regulations:** The system must comply with national healthcare regulations and standards regarding data privacy, especially concerning patient records and medical information.
- **Technology Dependency:** The hospital will become reliant on the system for critical administrative functions, and any failure or unavailability could lead to disruptions in hospital operations.

## 4.0 SYSTEM

The admin-hospital data and stock management system we're proposing aims to boost productivity in administrative tasks. It offers a strong, protected, and easy-to-use platform to handle the various aspects of hospital management. Here's a detailed look at the system's key features and their sub-features:

### 4.1. *Data Management*

This feature is focused on securely managing and storing hospital-related data, including patient records, staff details, and medical information.

- Patient Records Management
  - **Secure Storage:** Patient data, including personal details, medical history, and current treatment plans, will be securely stored in the system.
  - **Search and Retrieval:** Administrators can easily search for and retrieve patient records using filters such as name, ID, or department.
  - **Edit and Update:** Patient records can be updated in real-time to reflect ongoing treatments or changes in personal information.
- Staff Information Management
  - **Profile Creation:** Each staff member, from doctors to administrative personnel, will have a profile containing their personal details, role, and schedule.
  - **Scheduling and Shifts:** Administrators can manage staff schedules, assign shifts, and ensure appropriate staffing for each department.
  - **Role Assignment:** Staff members can be assigned different roles (e.g., nurse, doctor, admin), which will define their access rights within the system.

This feature allows for the real-time monitoring and tracking of medical supplies and equipment, ensuring optimal stock levels.

- Inventory Tracking
  - **Real-Time Updates:** Medical supplies and equipment levels will be updated in real-time as items are used or replenished.
  - **Alerts and Notifications:** Automated notifications will alert administrators when stock levels reach critical low points or when there is an excess of inventory.
  - **Usage Reports:** The system will generate reports on stock usage trends, helping administrators predict future needs.
- Ordering and Restocking
  - **Automated Reordering:** Based on predefined thresholds, the system will suggest reordering supplies when stock levels are low.
  - **Vendor Management:** Administrators can store information on suppliers and automatically generate orders to preferred vendors for restocking.
  - **Inventory Audits:** The system will allow for periodic audits of stock levels to ensure accuracy and prevent discrepancies.

### 4.3. Reporting and Analytics

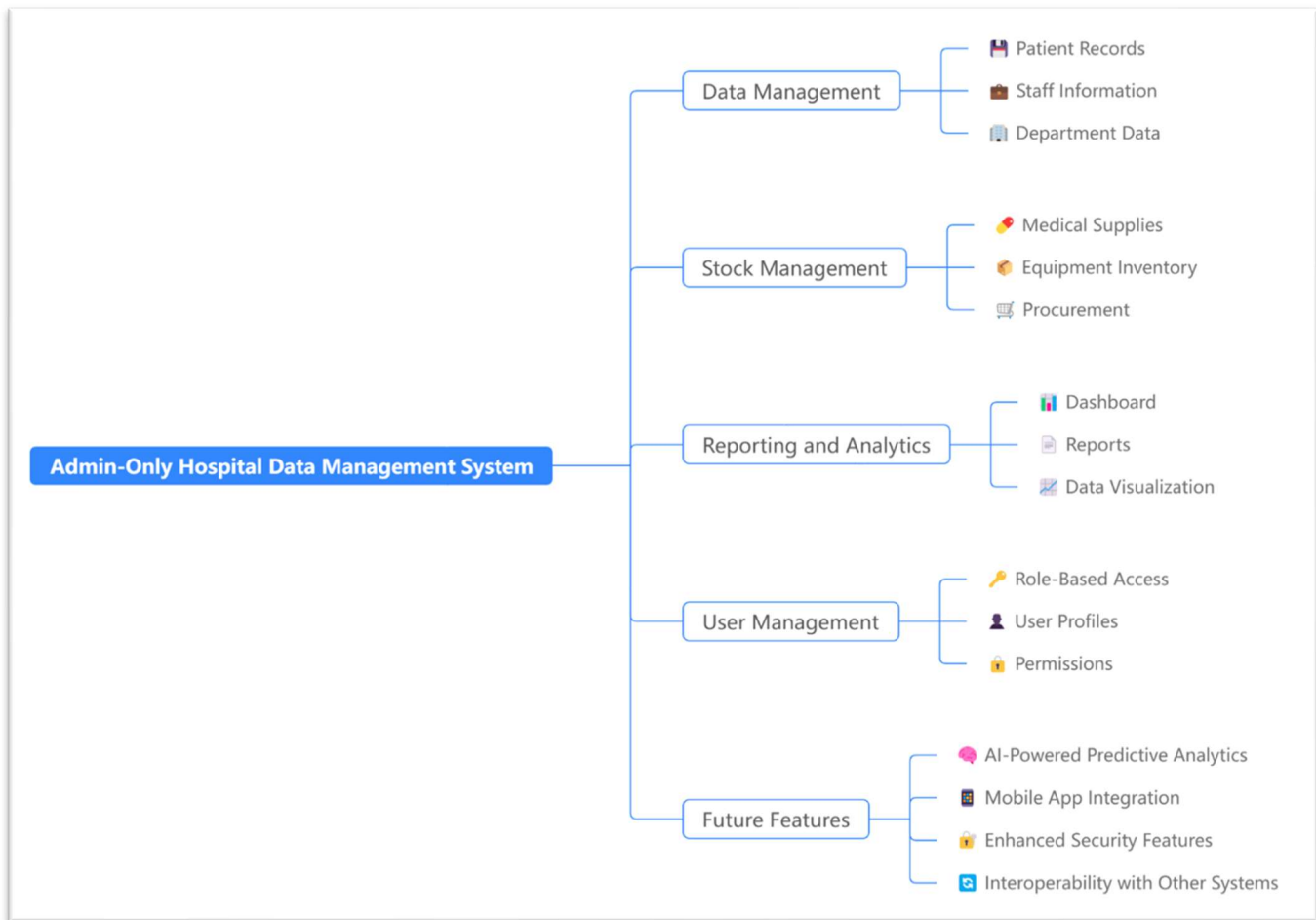
The system provides advanced reporting and analytics tools to help administrators make informed decisions and optimize hospital operations.

- Dashboard Overview
  - **Real-Time Data:** Administrators will have access to a dashboard showing key metrics like patient intake, staff schedules, and stock levels.
  - **Customizable Views:** Users can customize the dashboard to show specific data relevant to their role or department.
- Reports Generation
  - **Patient Reports:** Generate reports on patient demographics, treatment outcomes, and other relevant statistics.
  - **Inventory Reports:** Reports on stock usage, shortages, and reordering trends.
  - **Staff Reports:** Detailed reports on staff schedules, availability, and performance.

#### 4.4. User Management and Role-Based Access Control

This feature ensures that only authorized personnel have access to certain data and functionalities, maintaining security and privacy.

- Role-Based Access Control (RBAC)
  - **Role Definitions:** Different roles (e.g., Director, Admin Staff, Duty Director) will be defined, with each role having specific access rights and privileges.
- User Profiles
  - **Personalized Dashboard:** Each user will have access to a customized dashboard that presents relevant information and tools based on their role.
  - **Profile Management:** Users can update their personal details, change passwords, and manage their settings within the system.
  - **Login and Authentication:** The system will feature a secure login process with multi-factor authentication (MFA) to prevent unauthorized access.

**5.0 MIND MAP**



## 6.0 SYSTEM MODULES

The proposed system will utilize several key database tables (modules) to store and manage various types of hospital data, ensuring proper organization and secure access. Below is a detailed breakdown of the core database tables required for the system:

### 6.1 *Patients Table*

This table stores all patient-related information and is crucial for managing patient records and medical history.

| Field Name        | Data Type         | Description                                      |
|-------------------|-------------------|--|
| patient_id        | INT (Primary Key) | Unique identifier for each patient.              |
| first_name        | VARCHAR           | Patient's first name.                            |
| last_name         | VARCHAR           | Patient's last name.                             |
| dob               | DATE              | Patient's date of birth.                         |
| gender            | VARCHAR           | Patient's gender.                                |
| contact_number    | VARCHAR           | Patient's contact number.                        |
| address           | TEXT              | Patient's home address.                          |
| medical_history   | TEXT              | A summary of the patient's past medical history. |
| current_treatment | TEXT              | Details of ongoing treatment.                    |
| admission_date    | DATE              | The date of patient admission (if applicable).   |

This table holds information about hospital staff members, including their roles and schedules.

| Field Name     | Data Type         | Description                                     |
|----------------|-------------------|---|
| staff_id       | INT (Primary Key) | Unique identifier for each staff member.        |
| first_name     | VARCHAR           | Staff member's first name.                      |
| last_name      | VARCHAR           | Staff member's last name.                       |
| role           | VARCHAR           | Role of the staff (e.g., doctor, nurse, admin). |
| email          | VARCHAR           | Staff member's email for communication.         |
| contact_number | VARCHAR           | Staff member's phone number.                    |
| schedule       | TEXT              | Details about the staff member's work schedule. |
| department     | VARCHAR           | The department the staff member belongs to.     |
| hire_date      | DATE              | The date the staff member was hired.            |

### 6.3 Inventory Table

This table tracks medical supplies, equipment, and other items within the hospital's inventory.

| Field Name        | Data Type         | Description   |
|-------------------|-------------------|---|
| item_id           | INT (Primary Key) | Unique identifier for each item.                      |
| item_name         | VARCHAR           | Name of the inventory item (e.g., gloves, syringes).  |
| item_category     | VARCHAR           | Category of the item (e.g., equipment, supplies).     |
| quantity          | INT               | The current quantity of the item in stock.            |
| reorder_level     | INT               | Minimum stock level at which reordering is triggered. |
| supplier_name     | VARCHAR           | Name of the supplier for the item.                    |
| last_ordered_date | DATE              | The last date the item was ordered.                   |
| expiry_date       | DATE              | Expiry date for consumable items (if applicable).     |

This table stores details of stock orders placed for restocking hospital inventory.

| Field Name       | Data Type         | Description   |
|------------------|-------------------|---|
| order_id         | INT (Primary Key) | Unique identifier for each order.                         |
| item_id          | INT (Foreign Key) | ID of the item being ordered (linked to Inventory table). |
| quantity_ordered | INT               | Quantity of the item ordered.                             |
| supplier_name    | VARCHAR           | Supplier from whom the order was placed.                  |
| order_date       | DATE              | Date when the order was placed.                           |
| delivery_date    | DATE              | Expected or actual delivery date of the order.            |

#### 6.5 User Accounts Table

This table manages login information and roles for system users (admin staff, directors, etc.).

| Field Name     | Data Type         | Description                        |
|----------------|-------------------|------------------------------------|
| user_id        | INT (Primary Key) | Unique identifier for each user    |
| username       | VARCHAR           | User's login username              |
| password       | VARCHAR           | User's login password              |
| email          | VARCHAR           | User's login email                 |
| role           | VARCHAR           | User role                          |
| last_login     | TIMESTAMP         | Timestamp of the user's last login |
| account_status | VARCHAR           | Account status (Active, Inactive)  |

**7.0 TEST CASES**

| <b>Test Case ID</b> | <b>Test Case Description</b>               | <b>Test Steps</b>                                  | <b>Expected Results</b>                | <b>Actual Results</b> | <b>Status</b> | <b>Priority</b> | <b>Severity</b> |
|---------------------|--|--|--|-----------------------|---------------|-----------------|-----------------|
| TC001               | Verify login with valid credentials        | Enter valid username and password, click login     | User should be logged in successfully  | Pass                  | Pass          | High            | Critical        |
| TC002               | Verify login with invalid credentials      | Enter invalid username and password, click login   | Error message displayed                | Pass                  | Pass          | Medium          | Major           |
| TC003               | Verify user logout functionality           | Click on logout button                             | User should be logged out              | Pass                  | Pass          | High            | Critical        |
| TC004               | Verify the dashboard displays correct data | Login and view the dashboard                       | Dashboard should display accurate data | Pass                  | Pass          | Medium          | Major           |
| TC005               | Verify adding a new patient record         | Fill in patient details and click submit           | New patient should be added            | Pass                  | Pass          | High            | Critical        |
| TC006               | Verify editing a patient record            | Edit details of an existing patient and click save | Patient details should be updated      | Pass                  | Pass          | Medium          | Major           |
| TC007               | Verify deletion of a patient record        | Select a patient and click delete                  | Patient record should be deleted       | Pass                  | Pass          | Medium          | Major           |
| TC008               | Verify adding a new staff member           | Fill in staff details and click submit             | New staff member should be added       | Pass                  | Pass          | High            | Critical        |

|       |   |   |   |      |      |        |          |
|-------|---|---|---|------|------|--------|----------|
| TC009 | Verify editing a staff member record              | Edit details of an existing staff member and click save | Staff details should be updated               | Pass | Pass | Medium | Major    |
| TC010 | Verify deletion of a staff member record          | Select a staff member and click delete                  | Staff member record should be deleted         | Pass | Pass | Medium | Major    |
| TC011 | Verify real-time stock update after adding items  | Add new stock items and verify stock levels             | Stock levels should update in real-time       | Pass | Pass | High   | Critical |
| TC012 | Verify low stock alert functionality              | Set low stock threshold and monitor notifications       | System should send a low stock alert          | Pass | Pass | High   | Critical |
| TC013 | Verify reordering functionality when stock is low | Simulate low stock and reorder items                    | Reorder request should be triggered           | Pass | Pass | High   | Major    |
| TC014 | Verify report generation for patient data         | Generate a report on patient records                    | Report should be generated with accurate data | Pass | Pass | Medium | Major    |
| TC015 | Verify report generation for inventory data       | Generate a report on stock levels and usage             | Report should be generated with accurate data | Pass | Pass | Medium | Major    |

|       |  |  |   |      |      |        |          |
|-------|--|--|---|------|------|--------|----------|
| TC016 | Verify role-based access control for admin users | Login as admin and attempt to access different sections  | Admin should have access to all sections                      | Pass | Pass | High   | Critical |
| TC017 | Verify role-based access control for staff users | Login as staff and attempt to access restricted sections | Staff should only have access to their role-specific sections | Pass | Pass | High   | Critical |
| TC018 | Verify password reset functionality              | Attempt to reset password via the system                 | Password reset link should be sent                            | Pass | Pass | Medium | Major    |
| TC019 | Verify system performance under high load        | Simulate multiple users logging in simultaneously        | System should remain responsive without errors                | Pass | Pass | High   | Critical |
| TC020 | Verify user account deactivation functionality   | Deactivate an active user account and attempt login      | Deactivated users should not be able to log in                | Pass | Pass | High   | Major    |

## **8.0 FUTURE UPGRADE PLAN**

The Hospital Data and Stock Management System for admins, keeps meeting administrators' needs and boosts how things run. As things move forward, we've got to enhance its features to keep up with what's coming and the latest technology developments. This plan to upgrade plan covers important spots for making things better and stronger to make sure the system can grow, remain robust, and go parallelly with what the hospital will need down the line.

### ***8.1 Integration with External Health Systems***

One of the primary areas for further enhancement is getting our system integrated with external health systems, like those electronic health record systems, lab info systems, and the pharmacy management systems. This would allow seamless data flow between departments and external healthcare entities. By integrating with national and regional health networks, the system could automatically share patient information with other hospitals, clinics, and health professionals. This way even if patients have to go to different places for care, they can have continued care.

Furthermore, such integration would facilitate collaboration with external suppliers of medical equipment and pharmaceuticals, streamlining procurement processes and ensuring real-time updates on stock availability from suppliers. This would optimize inventory management, prevent stockouts, and reduce costs associated with emergency procurements.

### ***8.2 Mobile Application Development***

The mobile version of this system shall enable administrators and staff members to remotely access the platform for real-time reporting on patient records, inventory levels, and reports while on mobile. This therefore would enhance flexibility and responsiveness in managing operations at the hospital. In the case of emergency actions or critical situations, administrators could easily handle all operations and make fast decisions without necessarily being in the hospital.

It might also allow the workers to scan barcodes of medical supplies efficiently in order to update the inventory, send notifications when the stock is critical, and give out safe communication amongst departments. It will enhance operational efficiency and further improve coordination amongst the personnel at the hospital.

### *8.3 Artificial Intelligence and Predictive Analytics*

Artificial intelligence and the use of predictive analytics will, therefore, provide great insight into patient care and hospital management by the administrators. Such analysis will grant the AI models the ability to predict future trends through the analysis of historical data, like future admission rates of patients, outbreaks of diseases, or use of stock. This will make the predictive capability of the hospital get ready for a high-demand period, manage efficiently its resources, and maintain stocks at their optimal level.

AI-driven insights can also be applied to patient records to help health professionals identify patterns that may reveal future health risks, thus improving patient outcomes. Predictive models can enable optimization of staff scheduling by forecasting peak periods and achieving correct staffing levels.

### *8.4 Kicking Up Security and Following the Rules*

Since the system deals with sensitive patient information, it needs upgrades regarding its security features regularly to stay ahead of possible cyber threats. Future enhancements should consider advanced encryption protocols, multi-factor authentication, and continuous security monitoring. Integrating these into biometric authentication modes, such as fingerprint or facial recognition, would further enhance security yet remain accessible with ease to authorized personnel.

Compliance with changing healthcare regulations and standards, like HIPAA, along with local regulations, becomes very important. The periodic upgrade toward the latest legislation on data protection will ensure credibility for the system and avoid legal complications.

### *8.5 Telemedicine Integration*

Telemedicine, especially with the COVID-19 global pandemic, shows that the system can be upgraded to include the telemedicine option in which patients will have opportunities for virtual appointment setting, consulting with healthcare professionals, and receiving care without actually being required to visit a hospital. This feature would not only improve patient satisfaction but also ease the burden of hospital resources and minimize the risk of infectious diseases.



### 8.6 *Advanced Reporting and Data Visualization Tools*

Whereas the current system allows only basic reporting, future enhancements could provide for more sophisticated data presentation software, such as interactive dashboarding and real-time visual reporting. These would serve to allow administrators to understand key performance indicators intuitively and with little delay, with the ability to make timely decisions based upon such information. This is going to be further enhanced by customizable reports that have various filtering options.

In conclusion, the future upgrade plan for the Admin-Only Hospital Data and Stock Management System focuses on enhancing interoperability, improving user accessibility, incorporating advanced technology like AI, and ensuring long-term scalability and security. These upgrades will ensure that the system continues to meet the evolving needs of the hospital while maintaining high standards of operational efficiency and patient care.

## 9.0 GITHUB LINK

Github Link to Repo: <https://github.com/cb012035/SSP-2.git>

### *Instructions to run application*

1. Clone the repository: `git clone https://github.com/cb012035/SSP-2.git`
2. Navigate into project directory: `cd SSP-2`
3. Install composer dependencies: `composer install`
4. Setup Environment Variables: `cp .env.example .env`
5. Generate Application Key: `php artisan key:generate`
6. Create and seed database: `composer refresh`
7. Install NPM dependencies: `npm install`
8. Compile Assets: `npm run dev`
9. Start Laravel Server: `php artisan serve`

## 10.Screen short



Dashboard

Users

Schedules

Medicines

Equipment

Admin User ▾

### Admin Dashboard

#### System Analytics



Total Users  
2



Total Patients  
5



Total Staff  
1



Medicine Inventory  
5 units



Supplies Inventory  
5 units



Appointments  
75



Total Resources  
3

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#### Staff Performance Overview



Avg. Patient Satisfaction  
92%



Completed Tasks  
120



Outstanding Tasks  
10

#### Recent Activities

| ACTIVITY                                       | DATE          |
|--|---------------|
| Dr. Smith performed a surgery                  | July 10, 2024 |
| New patient John Doe registered                | July 9, 2024  |
| Nurse Jane updated her schedule                | July 8, 2024  |
| Monthly staff meeting held                     | July 7, 2024  |
| New equipment purchased for surgery department | July 6, 2024  |

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## Users Management

CREATE NEW USER

| NAME       | EMAIL           | USERTYPE | ACTIONS                                     |
|------------|-----------------|----------|---|
| Admin User | admin@gmail.com | Admin    | <a href="#">EDIT</a> <a href="#">DELETE</a> |
| Staff User | staff@gmail.com | Staff    | <a href="#">EDIT</a> <a href="#">DELETE</a> |

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## Schedules Management

CREATE NEW SCHEDULE

| STAFF NAME | DATE       | START TIME | END TIME | DESCRIPTION  | ACTIONS                                     |
|------------|------------|------------|----------|--|---|
| Staff User | 2024-10-11 | 09:58      | 09:58    | ID-200425702247   name - perera   i need to do x ray | <a href="#">EDIT</a> <a href="#">DELETE</a> |
| Staff User | 2024-10-11 | 01:02      | 03:02    | ID-12121 Name - john blood test                      | <a href="#">EDIT</a> <a href="#">DELETE</a> |

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## Medicines Management

| NAME        | DESCRIPTION                                   | QUANTITY |
|-------------|---|----------|
| Aspirin     | Pain reliever and anti-inflammatory           | 200      |
| Amoxicillin | Antibiotic used to treat bacterial infections | 100      |
| Ibuprofen   | Pain reliever and fever reducer               | 500      |
|             |   | 200      |



## Medicines Management

CREATE NEW MEDICINE

| NAME        | DESCRIPTION                                   | QUANTITY | PRICE | EXPIRY DATE | ACTIONS                                       |
|-------------|---|----------|-------|-------------|---|
| Aspirin     | Pain reliever and anti-inflammatory           | 200      | 5.99  | 2024-12-31  | <button>EDIT</button> <button>DELETE</button> |
| Amoxicillin | Antibiotic used to treat bacterial infections | 100      | 10.5  | 2025-01-15  | <button>EDIT</button> <button>DELETE</button> |
| Ibuprofen   | Pain reliever and fever reducer               | 500      | 8.75  | 2024-10-20  | <button>EDIT</button> <button>DELETE</button> |
| Lisinopril  | Used to treat high blood pressure             | 300      | 12.99 | 2025-03-10  | <button>EDIT</button> <button>DELETE</button> |
| Metformin   | Used to treat type 2 diabetes                 | 150      | 15    | 2025-05-18  | <button>EDIT</button> <button>DELETE</button> |

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## Equipment Management

CREATE NEW EQUIPMENT

| NAME               | DESCRIPTION   | QUANTITY | PURCHASE DATE | STATUS            | ACTIONS              |
|--------------------|---|----------|---------------|-------------------|----------------------|
| X-ray Machine      | Machine used to take radiographs                    | 5        | 2022-06-15    | Operational       | <a href="#">EDIT</a> |
| Ultrasound Machine | Used for diagnostic imaging                         | 2        | 2021-12-05    | Operational       | <a href="#">EDIT</a> |
| Surgical Lights    | Used in the operating room to illuminate surgery    | 10       | 2023-01-10    | Operational       | <a href="#">EDIT</a> |
| Defibrillator      | Emergency medical equipment for heart resuscitation | 3        | 2020-08-20    | Needs Maintenance | <a href="#">EDIT</a> |
| ECG Machine        | Machine used to monitor heart activity              | 4        | 2023-05-15    | Operational       | <a href="#">EDIT</a> |

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127.0.0.1:8000/admin/equipment



## Staff Dashboard

## Total Patients

5

## Your Schedule

- 2024-10-11: 09:58 - 09:58 (| ID-200425702247 | name - perera | i need to do x ray)
- 2024-10-11: 01:02 - 03:02 (ID-12121 Name - john blood test)

## Recent Appointments

| DATE       | PATIENT        | REASON            |
|------------|----------------|-------------------|
| 2023-09-10 | John Doe       | Routine checkup   |
| 2023-09-12 | Jane Smith     | Consultation      |
| 2023-09-15 | Robert Johnson | Follow-up visit   |
| 2023-09-20 | Emily Davis    | X-ray appointment |
| 2023-09-25 | Michael Brown  | Dental cleaning   |

## Recent Patients

| NAME            | DATE OF BIRTH | EMAIL                       |
|-----------------|---------------|-----------------------------|
| Michael Johnson | 1978-02-11    | michael.johnson@example.com |
| Emily Davis     | 2000-12-25    | emily.davis@example.com     |
| Robert Brown    | 1988-09-30    | robert.brown@example.com    |
| John Doe        | 1985-05-15    | john.doe@example.com        |
| Jane Smith      | 1990-11-21    | jane.smith@example.com      |

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## Patients

JD

John Doe

john.doe@example.com

VIEW DETAILS

JS

Jane Smith

jane.smith@example.com

VIEW DETAILS

MJ

Michael Johnson

michael.johnson@example.com

VIEW DETAILS

ED

Emily Davis

emily.davis@example.com

VIEW DETAILS

RB

Robert Brown

robert.brown@example.com

VIEW DETAILS

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## My Schedules

| DATE       | START TIME | END TIME | DESCRIPTION  | ACTIONS              |
|------------|------------|----------|--|----------------------|
| 2024-10-11 | 09:58      | 09:58    | ID-200425702247   name - perera   i need to do x ray | <a href="#">VIEW</a> |
| 2024-10-11 | 01:02      | 03:02    | ID-12121 Name - john blood test                      | <a href="#">VIEW</a> |

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## Online Resources

**AI in Healthcare**

World Health Organization

An article on the growing importance of artificial intelligence in healthcare.

[View Resource](#)

Featured

**Medical Ethics Education**

Harvard University

An online course designed to introduce healthcare professionals to the fundamentals of medical ethics.

[View Resource](#)**Mental Health and Wellness Resources**

National Institute of Mental Health

Guidelines on maintaining mental health and wellness for professionals.

[View Resource](#)

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27.0.0.1:8000/staff/resources