

MIT HEALTHCARE AUTOMATION SOFTWARE

DOCUMENTATION

Objective:

The objective of this web-based automation software is to streamline and enhance the operations of a healthcare facility, optimizing the management of doctors, nurses, suppliers, medicines, and patient records. The software aims to provide a comprehensive and user-friendly platform for administrators, doctors, and nurses to efficiently handle their respective tasks. It ensures secure login and sign-up authentication, token-based authorization, and OTP-email verifications to maintain data privacy and security. By automating various processes, the software aims to improve productivity, reduce errors, and enable seamless collaboration among healthcare professionals.

Introduction:

Welcome to our advanced web-based automation software designed to revolutionize the healthcare industry. In today's fast-paced world, it has become essential for healthcare facilities to embrace technology to deliver better patient care and streamline administrative processes. Our software is a powerful tool that offers an all-in-one solution for managing doctors, nurses, suppliers, medicines, and patient records, with robust features and functionalities tailored to meet the unique needs of healthcare professionals.

With a flexible and responsive dashboard, administrators can efficiently oversee the entire system, monitor logs, and manage stock details with ease. The software employs token-based authorization and hash encrypted passwords to ensure only authorized personnel can access sensitive information, making it highly secure.







For doctors, the software provides a comprehensive dashboard where they can update their profiles, respond to nurse requests, and create prescription requests effortlessly. They can access and analyze their patients' health history, view past reports, and manage prescriptions using various sorting and filtering options.

Nurses also benefit from a feature-rich dashboard that allows them to create patient requests, manage reports, and analyze the health center's history. With easy-to-use functionalities, they can efficiently handle patient logbooks and collaborate effectively with doctors.

The software's emphasis on session-based activities further enhances security and data integrity. Moreover, it offers the convenience of generating stock management reports in Excel or PDF format, enabling efficient inventory management.









Overall, our web-based automation software aims to elevate healthcare facility management to new heights, promoting seamless workflows, enhancing collaboration, and ultimately improving the quality of patient care. Whether you are an administrator, doctor, or nurse, our software is designed to empower you to excel in your roles and provide the best possible healthcare services. Embrace the future of healthcare management with our innovative solution.

FEATURES:

-  Login and Sign-up Authentication
-  Token Based Authorization
-  OTP-Email Verifications
-  Hash encrypted passwords
-  Session Based Activities
-  Logs and Server Paginations

FUNCTIONALITIES:

ADMIN:

-  Flexible and Responsive Dashboard
-  View the list of Doctors, Suppliers, and Administrators
-  Add update and delete Doctor.
-  Add update and delete Nurse.
-  Add update and delete Medicines.
-  Add update and delete Supplier.
-  View logs
-  Upload stock details

- ✚ Update the stock count.
- ✚ Generate the report for stock management (excel/pdf)

DOCTOR:

- ✚ Comprehensive dashboard
- ✚ Update the profile.
- ✚ Respond to the request raised by nurses /
- ✚ Create a New Prescription request.
- ✚ Download the Report
- ✚ View the Past Reports
- ✚ View the Past Completed / Pending requests.
- ✚ Analyse the Health Centre's history.
- ✚ View patient logbook.
- ✚ Various sort and filters available for the prescription reports

NURSE:

- ✚ Comprehensive dashboard
- ✚ Update the profile.
- ✚ Create a request for patient.
- ✚ Delete the patient requests.
- ✚ Download the Report
- ✚ View the Past Reports
- ✚ View the Past Completed / Pending requests.
- ✚ Analyse the Health Centre's history.
- ✚ View patient logbook.
- ✚ Various sort and filters available for the prescription reports

Tables and Schemas:

1) Admin table:

- Admin ID (primary key)
- Name
- Email address
- Date
- Password (Encrypted)

2) Doctor table:

- Doctor ID (primary key)
- Name
- Email address
- Mobile phone
- Specialization
- Qualification
- License number
- Password

3) Nurse table:

- Doctor ID (primary key)
- Name
- Email address
- Mobile phone
- Specialization
- Qualification
- Password

4) Patient table:

- Patient ID (primary key)
- First name
- Last name
- Date of birth
- Contact information (phone, email)
- Address
- Medical conditions

- Allergies
- Insurance information

5) Student Table

- Student ID (primary key)
- Name
- Register Number
- Mobile phone
- Gender
- Department
- Date of Birth

6) Supplier table:

- Supplier ID (primary key)
- Supplier name
- Supplier license no.
- Supplier phone
- Supplier email
- Address
 - Door no.
 - Street
 - City/Village
 - District
 - Pin Code
 - State
 - Country

7) Prescription table:

- Prescription ID (primary key)
- Medicine IDs (foreign keys)
- Doctor ID (foreign key)
- Nurse ID (foreign key)
- Patient name
- Age
- Student's Regno.

- Student's Department
- Student's Residential type
- Gender
- Temperature
- Oxygen
- Symptoms
- Advice
- Tests
- Completed by [Enum: Nurse / Doctor]
- isCompleted (Boolean)
- Date
- Next visit date

8) Test Report table:

- Report ID (primary key)
- Patient ID (foreign key)
- Doctor ID (foreign key)
- Test type
- Test date
- Test result