## SULTE COSTELS

Presented By hite Mountain Automation Solutions Pvt .Ltd.

#### Why Hospital Automation is needed??

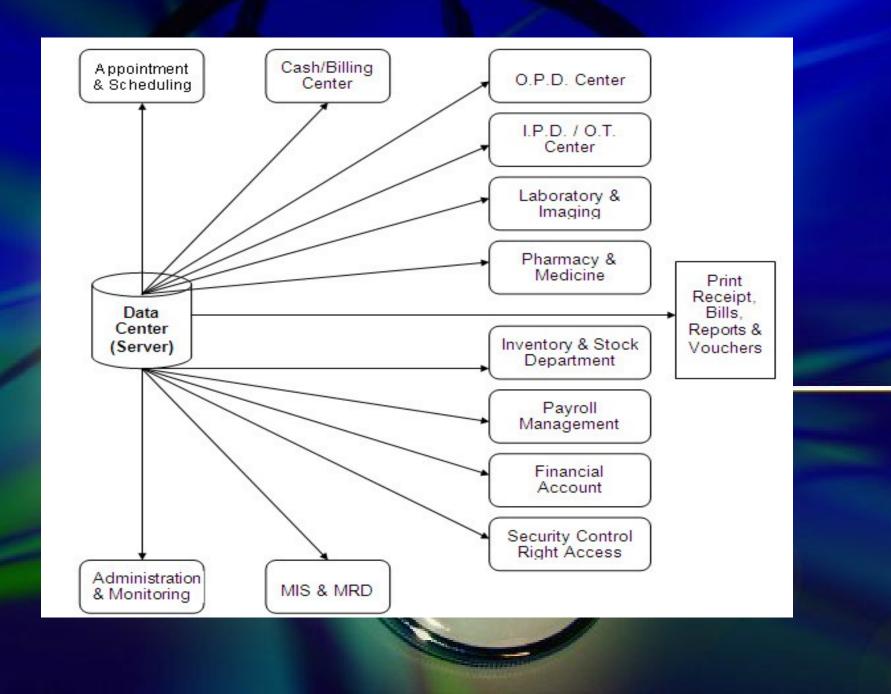
- Monitor your patients from anywhere.
  We make it easy for care-takers to track, monitor and view their patients in real-time from anywhere in the world, using their smartphone, tablet or computer.
- Get real-time notifications from patients. While every patient wants personal attention, it's impossible for hospitals to scale their operations and keep track of every single patient activity. But with hospital automation, you can now push instant notifications to assigned care-takers if the patient gets unresponsive for a prolonged period or demands special attention.

# Hospital Automation provide following facilities?

- Stay updated with intelligent sensing. From tracking roomtemperature to sensing real-time patient movements, it's now easy, simple and convenient for care-takers to updated with all the environmental parameters, even while they're on the go.
   Smart App that allows patients to control all aspects of the patient room, which includes lighting, AC, Curtain/Blinds, TV/DTH and integrated nurse call abilities.
- Our centralized Nurse Station Kiosks, and Smart Apps enable monitoring of patient call buttons. Wireless and wired call buttons along with pull cords provide multiple deployment options.

- Data analytics of call response times provided by the system helps in planning.
- The ultimate centralized Smart App based control for all electrical switches and equipment within the Hospital.
   Central monitoring of all sensors intended for safety (fire, gas), security (intrusion), operating parameter (temperature, humidity ) and more.

Smart App based control of all conference room features – lighting, AC, blinds, projector/projector screens and more. Also, allows for conference room reservation via Smart App.



#### **Hospital Reception**

- Hospital Reception Secured with Surveillance Cameras with night and day vision with event recording for hospital security. Access Controls for entry using the latest in biometrics. Sirens and flashers with announcements of security breach and intruder alerts. Security Module provides Alarm event recording, Support recording of all alarm history in case of
  - violating the security zones.
  - Convenience of Hospital Communication with Public Address

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Announcements, Nurse





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#### **Hospital Receiving Area**

The Integrated patient management system captures complete and relevant patient information. The system automates the patient administration functions to have better and efficient patient care process. Patient Registration **Details**, Inpatient and Outpatient Registration, Medical **Alerts Details , Appointment Scheduling (Patient / Doctor** wise), Doctor's Schedule Summary, Doctors Daily Schedule List, Patient Visit History Medical Record Movements, Appointments for Radiology tests and Operation, Patient Visit Slip It provides for enquiries about the patient, the patient's location, admission, and appointment scheduling and discharge details. Medical Record keeps an abstract of clinical data about patients. It allows easy retrieval of medical records on patients.

- A New Generation of Door Panels for Hospital Rooms: Indicates Room Number with Door Bell for Visitor's, DND for patients' rest time, Clean UP Room Display and Nurse Call Display. The inpatient hospital management is designed to take care of all the activities and functions pertaining to Inpatient Management. This module automates the day-today administrative actives and provides instant access to other modules, which leads to a better patient care.
  - It provides comprehensive data pertaining to Admission of Patients, Doctors' and Nurses Notes, Medicine Alerts and Details of Dosage, Nurse Call Log and Register for duration and Response Time.

#### **Private Patients Room**

Smart Hospital Bedside Controller gives the Patient control on all room needed Devices; for lighting & Dimming, Blinds, HVAC, TV with Language Selector. RFID is a technology being adopted in many business fields, especially in the medical field. This system initially uses contactless smart cards to store patient's data and for authentication of hospital employees in the system. RFID tags stuck to patients' necklace tags This system deals with security matters related to information stored in the smart cards regarding patients medical condition, history, drug administration, doctors notes and others, also comes with Patient Tracking Syste

#### Nurse's Station

Hospital Management is integrated with several other HMS solutions, including Laboratory, Radiology, Transcription, Order Communications and Pharmacy. It also offers a customizable option that allows up to four clinical elements to be viewed at once. provides automatic posting of charges related to different services like bed charges, lab tests conducted, medicines issued, consultant's fee, food, beverage and telephone charges etc. All the information together, including orders that have been dictated, a patient's vital signs, lab tests and radiology results. All the Patients Medical History with Nurses' and Doctors' Note including and Medical Treatments and Hospital Visits.

The User Manager module basically deals with security through controlling the access to the information available in the application. Any user associated with a user group can access only those screens for which the user group has rights. It also deals with the System Related Activity like User Monitor, Creating User Group Master, User Master and view the User Group Lookup of employee database, Maintenance of company documents, User defined message, error Generating Daily Statistical Summary.

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#### **Hospital Ward Room**

Management: Availability of beds, Agreement preparation, stimation, **Collection** of advance, Planned admission, mergency admission , Shifting from one ard to the other Bed availability, Surgery, dministration of drugs, nursing notes, orge slip and so on. The Dynamic Wall Panels Control cene and ability to dim the scenes. AC page controlling all type of AC units like relays, VAV 0-10 V, and split AC unit, setting your mode cooling heating fan speed your desire temperate with Auto ce. Controls Curtains and can set her for morning and bedtime.

## Emergency Room Emergency

The Outpatient / Emergency Patient Systems supports doctors to take better and timely consultation decisions by providing instant access to comprehensive patient information, also handles requests and results of laboratory tests and other examinations. External Doctors visit to in patients can be defined as "On-Call". The system register for Patients' for Room Transfer and Hospital Admittance and view initial doctor's Advice for incoming patient. The Laboratory module automates the investigation request and the process involved in delivering the results to the concerned department/doctor of the hospital. Laboratory module starts with receiving the online request from doctors and also allows laboratory personnel to generate requests.

#### Lighting Control System-

 A lighting control system is an intelligent network based lighting control solution that incorporates communication between various system inputs and outputs related to lighting control with the use of one or more central computing devices.



It is an intelligent networked system of devices related to lighting control. These devices may include relays, occupancy sensors, photocells, light control switches or touchscreens, and signals from other building systems (such as fire alarm or HVAC). Adjustment of the system occurs both at device locations and at central computer location via software programs or other interface devices. The brightness of lights autom according to the climate change

#### **Climate Control Ideas-**

 Program Shades and drapes to open and close automatically based on position of sun and home occupancy.

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Heating, Ventilation and Air Conditioning
 HVAC is an important part of hospital building conditions are regulated with humidity, using fresh air from outdoors

and healthy mperature and

Temperature: 75°

## Scope Of work

Installation and maintenance of all system Service back up with spare parts Training to concerned staff.

#### Contact To:-Rajeev Sir 09637740359 07709630306

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