



I.D. SOLUTIONS
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**FEATURES
OF
HOSPITAL
MANAGEMENT
SOFTWARE
WITH
RE-USEABLE RF-ID
WRIST-BAND**



Hospital Management is divided into five modules

-  In Patient Module
-  Out Patient Module
-  Staff Module
-  Accounts Module
-  Inventory Module

In Patient Module

This module comprises of the following features:

Reception

- ❖ Reception comprises GUI for the following operations:
- ❖ Authentication (also includes change of Change of Authentication information)
- ❖ Entering the details of the Inpatient / Outpatients for admitting
- ❖ Access the details of the patient through conventional method and also by using a *Search Engine*
- ❖ Ward booking
- ❖ **Creation of RF-ID Wristband for the Patient and Contactless Visitor Cards.**

ECG

- ❖ ECG comprises GUI for the following operations:
- ❖ **Authentication of the patient details through RF-Id Wrist Band and test results storage.**
- ❖ Entering the ECG report of the patient who underwent a test
- ❖ Access the details of the patient with concerned to ECG report and other
- ❖ Details conventionally and also by using a *Search Engine*
Billing

Laboratory

- ❖ Laboratory comprises GUI for the following operations.
- ❖ **Authentication of the patient details through RF-Id Wrist Band and test results storage**
- ❖ Entering the details like Blood Sugar test, Hemoglobin, Bio Chemistry etc.
- ❖ Access the details of the patient with concerned to the above tests
- ❖ Conventionally and also by using a *Search Engine*
- ❖ Billing

Nurse

- ❖ Nurse comprises GUI for the following operations:
- ❖ **Authentication of the patient details through RF-Id Wrist Band and results storage.**
- ❖ Entering the details of the patient's health status
- ❖ Access the details of the patient's regarding patient's health status

X-Ray

- ❖ X-Ray comprises the GUI for the following operations:
- ❖ **Authentication of the patient details through RF-Id Wrist Band and test results storage.**
- ❖ Entering the details of the patient's X-Ray report
- ❖ Access the details of the patient's X-Ray report
- ❖ Billing

Critical Care Units (CCU)

- ❖ CCU comprises the GUI for the following operations:
- ❖ **Authentication of the patient details through RF-Id Wrist Band and test results storage.**
- ❖ Entering the CCU report for a patient admitted
- ❖ Access the details of the patient's CCU report
- ❖ Billing

Intensive Care Unit (ICU)

- ❖ ICU comprises the GUI for the following operations:
- ❖ **Authentication of the patient details through RF-Id Wrist Band and test results storage.**
- ❖ Entering the ICU report for a patient admitted
- ❖ Access the details of the patient's ICU report
- ❖ Billing

Doctors

- ❖ Doctor's GUI comprises the following functionalities:
- ❖ **Authentication of the patient details through RF-Id Wrist Band and test results storage.**
- ❖ Access the details of the patient who is assigned to him

Operation Theatre (OT)

- ❖ Operation Theatre comprises the GUI for the following operations:
- ❖ **Authentication of the patient details through RF-Id Wrist Band and test results storage.**
- ❖ Entering the details of the Operation done on a patient
- ❖ Access the information of the Operation status of a patient conventionally
- ❖ Or by using a *Search Engine*
- ❖ Billing

Staff Module

The requirements of this module are as follows:

Personal Department (for registration, attendance and leave)

- ❖ Personal Department comprises the following operations:
- ❖ Authentication (also includes change of Change of Authentication information)
- ❖ Enter the bio data of the staff (candidate) at the time of his report which includes his personal details, education and experience profile
- ❖ Enter the attendance and leave details of the staff
- ❖ Should be able to access the bio data, salary, attendance and leave Details of the staff
- ❖ Creation of Contactless Smart Card for Staff ID with encrypted data and
- ❖ Visual Verifications like Photograph, Name, and Signature of the issuing authority.

Any Staff

- ❖ Staff comprises the following operations:
- ❖ Authentication (also includes change of Change of Authentication information)
- ❖ Access their own information like bio data, attendance, leave and salary

Accounts

- ❖ Accounts comprises the following operations:
- ❖ Authentication (also includes change of Authentication information)
- ❖ Enter the Salary details of the staff
- ❖ Access the salary details of the staff conventionally or by using a Search Engine

Contactless Smart Cards for Time Attendance

Every employee will be issued a smart card. This Smart Card will contain the information of the holder on the card as well as in the chip. Whenever any employee enters or exits the hospital premises, the card will be read by the smart card reader for verification and authentication. This would also log in the time and date of entry or exit. At the end of the month, comprehensive reports will be generated to show the exact records of the daily attendance and movements of every employee.

The Time Attendance System offered comes with the following features:

- ❖ Registering of Attendance through Smart Card
- ❖ Registering Attendance Manually
- ❖ User Level Security
- ❖ Recording Patterns
- ❖ Time Control Schedule
- ❖ Real Time Display of Events
- ❖ Database Queries with options like Date, Time, etc.
- ❖ Printing of Events and History.

RF-Id Re-usable Intelligent Wrist Band

Technical Data

PARAMETER VALUE UNIT

- ❖ Housing material plastic – ABS (“Novodur”)
- ❖ Band material plastic-net (“Perlon”)
- ❖ Water proof 5 m
- ❖ Width 34,5 mm
- ❖ Length 275 mm
- ❖ Thickness 5 mm
- ❖ These intelligent wristbands combine RFID technology with a re-usable wristband.
- ❖ These intelligent wrist bands incorporates a computer chip & antenna, which allow application specific information to be written to and retrieved from the intelligent
- ❖ Wristband at any time by portable, handheld RFID scanners or fixed-position readers.
- ❖ No battery needed
- ❖ Long shelf life.

PRINCIPLE APPLICATIONS

- ❖ Secure identification with read-write data storage.
- ❖ Link to point-of-sale with automatic debit & credit.

FEATURES

- ❖ Non-contact.
- ❖ No Line-of-Sight required.
- ❖ Reads through the body.
- ❖ Re-usable wristbands.
- ❖ Water-Resistant & durable.
- ❖ Anti-collision: RFID inlets provide near-simultaneous transmission to/from multiple bands.
- ❖ Preprogrammed, write-protected, unique serial number in each band

AVAILABLE TECHNOLOGIES

- ❖ Mifare
- ❖ Legic Supertag
- ❖ Hitag 1/2
- ❖ H4102 / 4150

AVAILABLE DESIGNS

- ❖ Standard-housing color: black, grey, blue or red
- ❖ Standard cover-cap color: grey, black,, red, yellow or green on request)
- ❖ Cover-cap can also be printed individually
- ❖ Band color: black (other colors: on request)