

Web Based Clinical Management System

A Proposal

By



Centris
InfoTech Services

1 Corporate Profile

Centris infotech services (CIS), an IT Services company headquartered in Chennai, having branches in Bangalore and Cochin. CIS is a progressive services company, offering optimum solutions to clients. CIS has grown significantly over the last one year to over 100 +Professionals, and aim to double the strength this year. Multifaceted, we help clients worldwide realize their objectives by providing a variety of services and engagement models specific to client needs and ensuring quality through our strong processes

Centris started its operations to carry on the service goals of our parent organisation CENTRIS SOFTWARE LABS which was originally founded in the year 2002 with the core team of dynamic professionals with rich experience in IT consulting , Project and HR management and Corporate Training. Centris Infotech service has mainly focused on technologies related to Web technologies, Portal development, SOA and product development. Our focus and aggressive growth plans coupled with our clients' support has made us a very fast growing organization to identify and provide a platform to technical expertise, building COE which is not our dream but a daily practice, build and transfer methodology.

2 Our Services

The Portfolio of services offered by Centris InfoTech Services are

- ❑ Software development and testing services.
- ❑ Product development
- ❑ IT application , infrastructure maintenance and Remote support
- ❑ Web Site Design & Development
- ❑ SEO/ SEM, Social Media Marketing
- ❑ Mobile Application Development
- ❑ Embedded System Design & Development

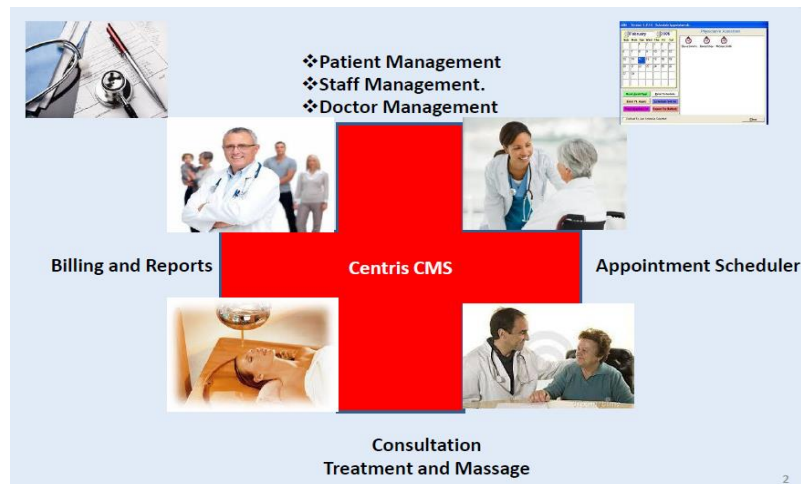
3 Our Software Products

- ❑ Web based Employee Attendance System with Biometric & Smart Card integration
- ❑ School ERP
- ❑ Clinical Management System
- ❑ Kiosk Based solution – Queue Management System
- ❑ GPS Vehicle Tracking System
- ❑ Android based Employee/Independent Tracking system

4 Proposed Scope of Services

Centris takes a structured approach to delivery, and draws on its years of expertise in architecture and design, skill-sets on various standards, technologies and platforms related to J2EE, .NET, Web Services, Integration, BPM and Security, as well as industry domain knowledge to deliver high value to customers.

5 Clinical Management System Modules



Patient Registration module:

This module deals with the registration of patient details like personal details, contact information, symptoms and health parameters. The image of the patient is also captured during registration process. The details are saved to the database. It can be retrieved later for reference by using the patient id generated during registration or by any unique identity specified during registration process.

The features of this module are:

- Patient details are stored to the database
- Doctor can view the details of registered patients
- Administrator can view reports of the registered patients to calculate number of patients visiting the clinic.
- If already registered member, details can be retrieved (new registration not required).

Doctor registration module:

This module deals with the registration of doctor practicing in the clinic. The records are saved to the database which can be retrieved for reference if required. The doctor details like personal information, contact information, shift details etc are saved to the database. In the doctor module, the duty time of doctor is also recorded. The list of doctors available for service can be viewed when required. The list of doctors will contain the details of available doctors at the particular time slot based on which the clinic data entry operator/admin can allot appointments to the patients.

The features of this module are:

- Doctor details are stored to the database
- List of doctors and available time slots can be viewed
- Doctors can be mapped to patient based on doctor availability

Appointment scheduling:

Appointment scheduling process is automated by the application. The appointment scheduling is done for the doctor consultation. The scheduler will schedule the appointment for the patients based on the time of registration/entry to the clinic. The scheduler will allot the appointments based on first in first out principle.

The features of this module are:

- Appointment is scheduled based on first in principle
- Appointments can be modified / cancelled.
- Appointment can be allotted for different doctors based on availability
- Appointment scheduling reduces confusion

Waiting Queue:

Waiting queue is based on the appointment scheduler. The patient will be allotted an appointment and the waiting queue will display the list of patients waiting in the queue. It will update the queue once the patient has consulted the doctor. The queue will be reset and the appointments will be sorted in ascending order as scheduled by the scheduler.

The features of this module are:

- It displays the list of waiting patients
- Appointments can be modified/cancelled
- The queue is dynamically updated when an appointment is attended/cancelled.

Consultation module:

This module deals with the consultation process which includes the patient record retrieval and updating the modifications to database. The modifications include the treatment and medication details which will be stored to database. The doctor has the option to view the patient earlier medical records by using the patient details. The medication details will be filled in to the application by the doctor/data entry operator.

The features of this module are:

- The doctor can view the details of the registered patient before the start of consultation.
- Doctor can view the history of patient illness if available
- Doctor can update the treatment details and medication
- Doctor can upload any medical file (if any) to the application and can be retrieved later.

Message registration:

This module deals with the registration of patients details for massage treatment. The details are stored to the database and it can be retrieved for reference from database. Massage details are different from patient registration. Massage registration includes different attributes.

The features of this module are:

- The patient details are registered and stored to database.
- If already registered, the details can be retrieved
- Reports can be generated for the registered patients

Message patient appointment scheduler:

The appointment scheduler is used to schedule the appointment for patients who undergoes massage treatment. The appointment is allotted by the scheduler based on the appointment time as requested by the patient. The appointment details are stored to the database. The appointment allotted can be rescheduled and deleted if required.

The features of this module are:

- Appointment is scheduled based on first in principle
- Appointments can be modified/cancelled.
- Appointment scheduling reduces confusion

Message waiting queue:

This module deals with the display of appointments allotted by the scheduler. The waiting queue will be reset once the patient takes up the massage treatment. It displays the appointments which is still pending for the treatment.

The features of this module are:

- It displays the list of waiting patients
- Appointments can be modified/cancelled
- The queue is dynamically updated when an appointment is attended/cancelled.

Pharmacy:

This module deals with the pharmacy and its functionalities. It maintains a record of medicines available, cost of medicines and the expiry of medicines in the database.

The features of this module are:

- The list of medicines available in the pharmacy can be viewed.
- Stock details and expiry date can be effectively managed.

Billing:

The billing module handles the billing of consultation fee and medicine fee. It calculates the total amount which includes the registration, consultation, massage treatment and medicine fee. The bill will be displayed to the pharmacist and also stored to database which can be retrieved for reference. The bill can be printed by the pharmacist.

The features of this module are:

- The pharmacist can view the medicines prescribed by the doctor using patient details.
- The total amount can be calculated by the billing module.
- The bill can be printed if required
- Billing can also be done for massage treatment

Report:

This module deals with the generation of reports. It provides report for every module which is helpful to analyze the performance of the clinic. The reports generated are

- Patient report
- Medicine report
- Billing report
- The features of this module are:
- List of patients can be viewed
- Medicine list can be retrieved for stock analysis
- Billing report can be generated for account verification

6 Product Features

There are four different users for the clinical management system. They are

- **Data entry operator**
Data entry operator handles the registration process and appointment scheduling process.
- **Doctor**
Doctor uses the application to view the treatment history of the patient.
- **Pharmacist**
Pharmacist uses the application to calculate the bill and also print the same.

The features available to data entry operator are:

- Patient registration
- Doctor registration
- Patient registration for massage treatment
- Consultation form updation
- Appointment modification/cancellation
- Report generation

The features available to doctor are:

- View patient details with history
- Update consultation form
- Report generation

The features available to pharmacist are:

- Billing process
- Medicine management
- Report generation