

Requirements

- ☞ Software Framework: CodeIgniter,
- ☞ PHP version: PHP 5.4 - PHP 7.1,
- ☞ JavaScript JS, HTML, CSS, PHP, SQL,
- ☞ IE8, IE9, IE10, IE11, Firefox, Safari, Opera, Chrome

Default Login Details:

Role	Username	Password
Admin	admin@hms.com	12345
Doctor	doctor@hms.com	12345
Patient	patient@hms.com	12345
Nurse	nurse@hms.com	12345
Pharmacist	pharmacist@hms.com	12345
Accountant	accountant@hms.com	12345
Laboratories	laboratorist@hms.com	12345
Receptionist	receptionist@hms.com	12345

Software Overview

☞ This system is a complete Hospital Management System. Every essential part of a hospital is included in the system. Different user group can access this system.

☞ Admin can see others activities. Doctor can take control of patient information. Other groups like nurse, accountant, receptionist, pharmacist and laboratorist has their own window from where they can control and work.

☞ Appointment, schedule module help both doctor and patient to manage their appointment information.

☞ There is a notice where admin will post notices and other groups will see those notices on his/her wall

☞ Admin can send sms and bulk email to other groups from this system to notify them about other activities.

☞ This system contains a POS which help to management invoice and remove any kind of calculation error.



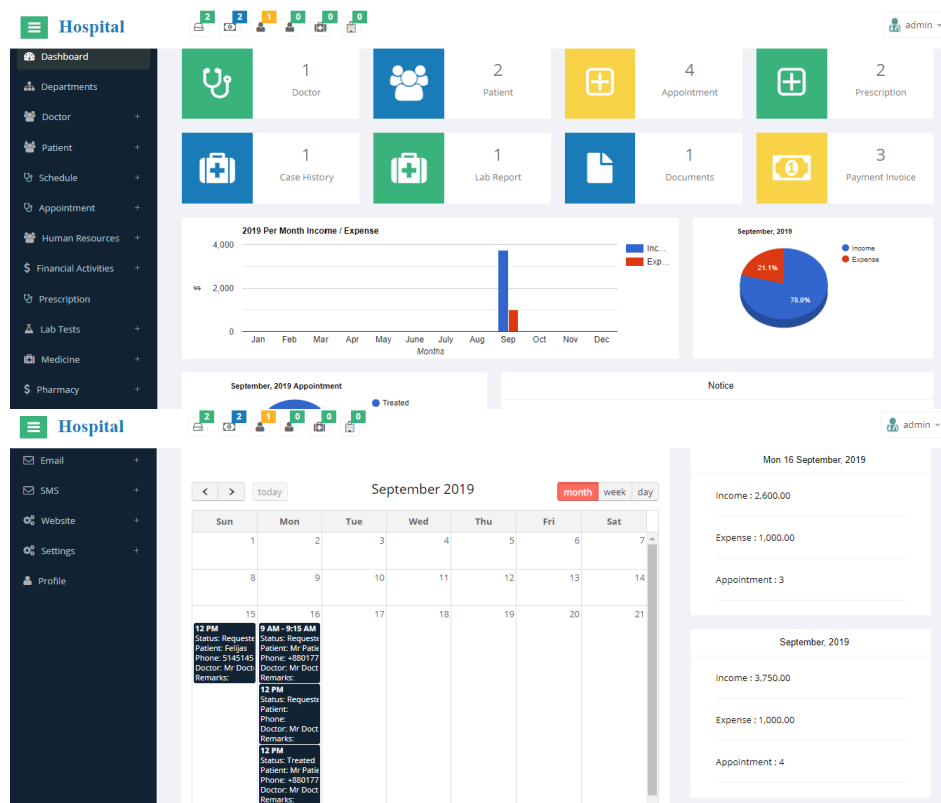
☛ This software is built on CodeIgniter. This is a web software. So, you can run it online. Also, you can run locally on your computer or LAN through local server software like XAMPP or WAMP server.

Modules

In this system there are modules like Doctor, Patient, Human Resource Management, Lab Report, SMS, Email, Report, Donor, Pharmacy, Appointment, Schedule, Settings, Profile etc.

Dashboard

This system has a user friendly dashboard which will help users to know about all activities at a glance.



Department


Departments is a modules through which user can create and store all the department names and their descriptions.


User also can edit and delete departments and their descriptions.

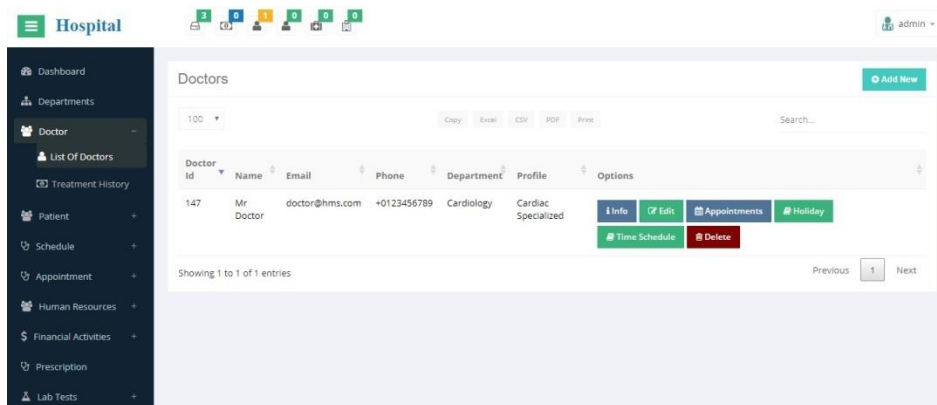
steps: Go to "Departments" at Side menu. It will display department list.

To create a new department click on "Add New" button at the left top. A form will appear. Fill the form and submit.

Doctor

 Doctor's name can be listed in Doctor module.


 New doctors can be created by clicking on 'add new' button.




Doctor Id	Name	Email	Phone	Department	Profile	Options
147	Mr. Doctor	doctor@hms.com	+0123456789	Cardiology	Cardiac Specialized	Info Edit Appointments Holiday Time Schedule Delete


Patient

 Patient's name can be listed in Patient module.

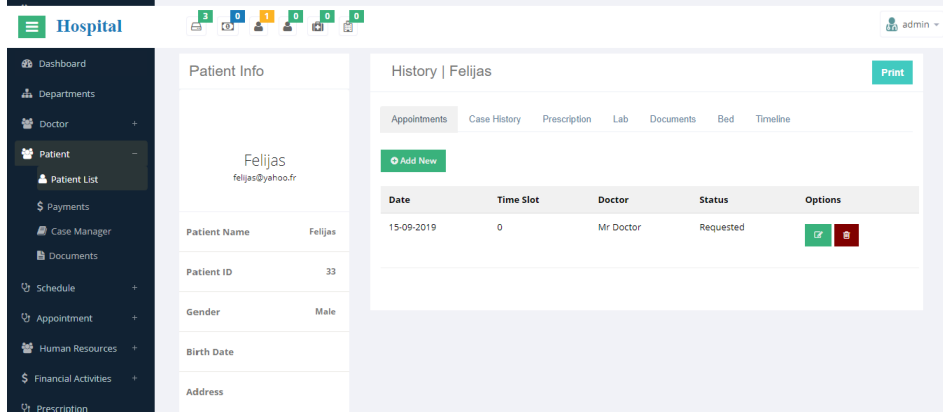
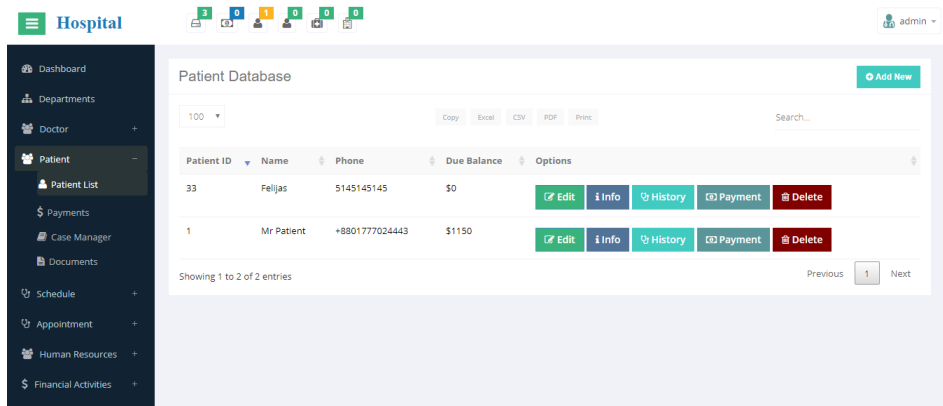
 From Patient's name table individual patient information can be edited, patient history can be seen and payment can be done.

 From the payment option of the patient information of a specific patient can be seen.

 From the case manager option a patient case can be added.

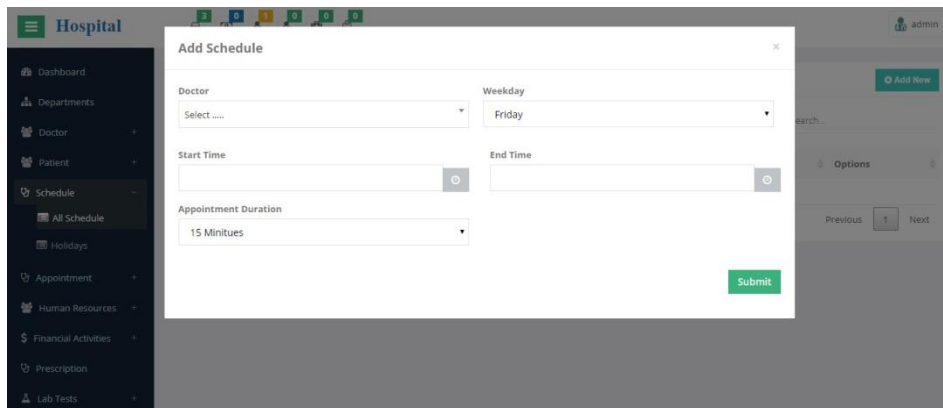
 New patients can be created by clicking on 'add new' button.

 There is also patient payment option.



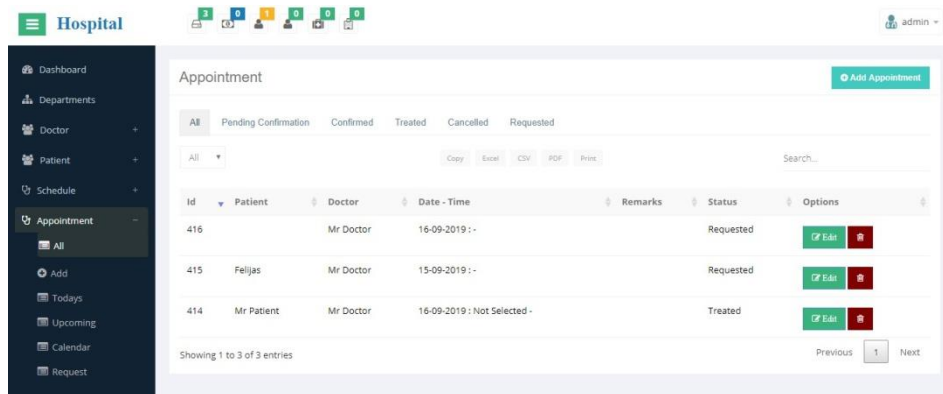
Schedule

From here doctor can set their schedule according to weekdays and holidays according to year.



Appointment

Get appointment of a doctor for current date or future date.



Hospital Appointment

Dashboard Departments Doctor Patient Schedule Appointment All Add Today's Upcoming Calendar Request

Appointment

All Pending Confirmation Confirmed Treated Cancelled Requested

All Copy Excel CSV PDF Print Search...

Id	Patient	Doctor	Date - Time	Remarks	Status	Options
416		Mr Doctor	16-09-2019 :-		Requested	Edit Delete
415	Feljas	Mr Doctor	15-09-2019 :-		Requested	Edit Delete
414	Mr Patient	Mr Doctor	16-09-2019 :- Not Selected -		Treated	Edit Delete

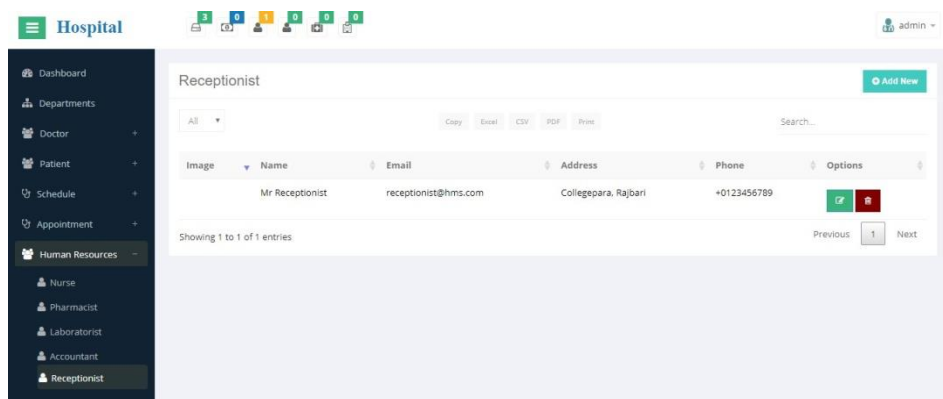
Showing 1 to 3 of 3 entries Previous 1 Next

Human Resources

Human resources comprise with four different modules

Those are:

- ◆ Nurse, Pharmacist,
- ◆ Laboratorist,
- ◆ Accountant,
- ◆ Receptionist.
- ◆



Hospital Receptionist

Dashboard Departments Doctor Patient Schedule Appointment Human Resources Nurse Pharmacist Laboratorist Accountant Receptionist

Receptionist

All Copy Excel CSV PDF Print Search...

Image	Name	Email	Address	Phone	Options
	Mr Receptionist	receptionist@hms.com	Collegepara, Rajbari	+0123456789	Edit Delete

Showing 1 to 1 of 1 entries Previous 1 Next

Financial Activities

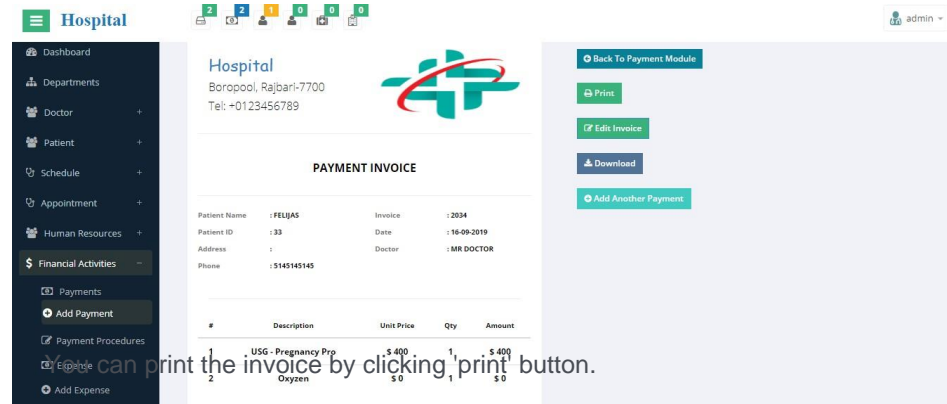
Financial activities module manage all the financial transaction and reports of the hospital. User can create payments, invoices & expenses.

Steps:

1. Create all the payment types from Financial Activities --> payment categories at side menu.
2. Click Financial Activities --> Add Payment.
3. Select patient.
4. Select doctor if the patient is referred by someone.

5. Select payment procedures.
6. Submit.

☞ If the payment is successful it will redirect to the invoice.



The screenshot shows a web application interface for a hospital. On the left is a dark sidebar menu with 'Financial Activities' expanded to show 'Add Payment'. The main content area displays a 'PAYMENT INVOICE' for patient FELIUS, dated 16-09-2019. The invoice table lists items like 'USG - Pregnancy Pro' and 'Oxygen'. On the right, there are buttons for 'Print', 'Edit Invoice', 'Download', and 'Add Another Payment'. A text overlay at the bottom of the screenshot says: 'User can print the invoice by clicking "print" button.'



☞ Users also can entry expenses.

☞ Steps:

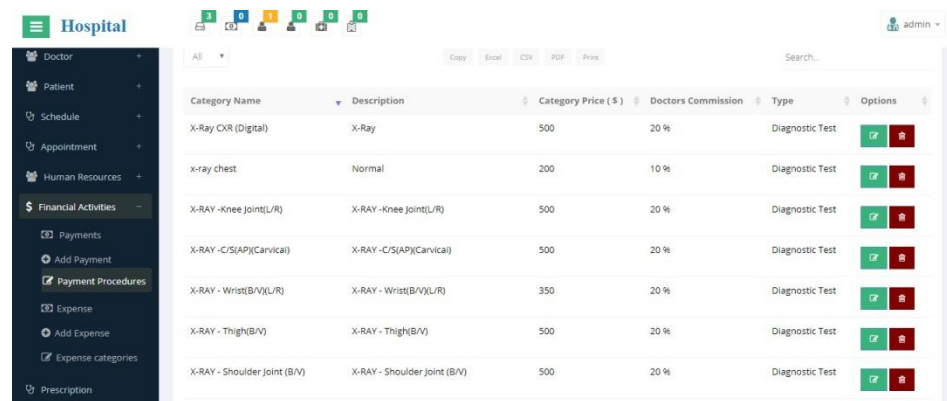
1. Go to Financial Activities --> Expense category.
2. Create Expense categories by clicking "Add New" Button.
3. Go to Financial Activities --> Add Expense.
4. Select your expense category and enter the amount.

☞ User can see the date-to date financial report. Go to 'financial report' from the sidemenu.

☞ By default it will show all the financial report dated from the beginning to present.

☞ User can select date to date from above fields.

☞ If user want to see the today's report. Select both the field today.



The screenshot shows a table of expense categories in the Hospital application. The table has columns for Category Name, Description, Category Price (\$), Doctors Commission, Type, and Options. The categories listed are various X-Ray types.

Category Name	Description	Category Price (\$)	Doctors Commission	Type	Options
X-Ray CXR (Digital)	X-Ray	500	20 %	Diagnostic Test	[Add] [Edit]
x-ray chest	Normal	200	10 %	Diagnostic Test	[Add] [Edit]
X-RAY -Knee Joint(L/R)	X-RAY -Knee Joint(L/R)	500	20 %	Diagnostic Test	[Add] [Edit]
X-RAY -C/S(AP)(Cervical)	X-RAY -C/S(AP)(Cervical)	500	20 %	Diagnostic Test	[Add] [Edit]
X-RAY - Wrist(B/V)(L/R)	X-RAY - Wrist(B/V)(L/R)	350	20 %	Diagnostic Test	[Add] [Edit]
X-RAY - Thigh(B/V)	X-RAY - Thigh(B/V)	500	20 %	Diagnostic Test	[Add] [Edit]
X-RAY - Shoulder Joint (B/V)	X-RAY - Shoulder Joint (B/V)	500	20 %	Diagnostic Test	[Add] [Edit]

☰ Medicine

☞ List of Medicine:

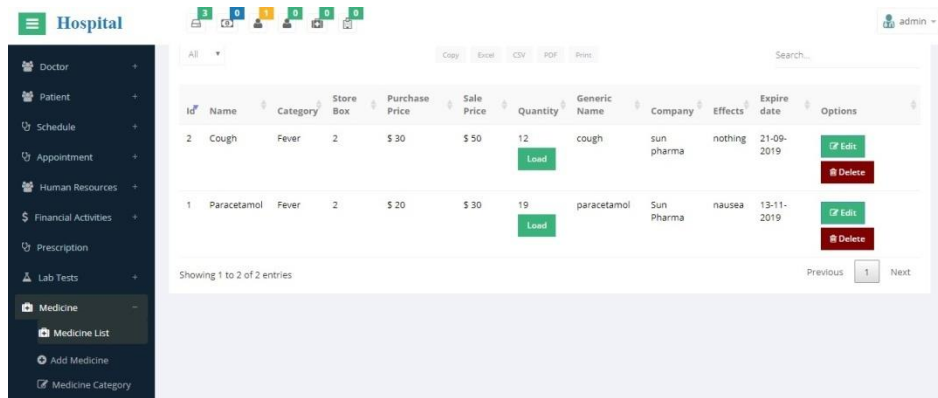
Click "Medicine List" at the side menu.It will display List of medicines.

 Add New Medicine:

Click "add new" button at the left top. A form will appear. Fill up the form and submit.

Or, click "Add Medicine" button at sidemenu Medicine->Add New Medicine.

☞ Medicine can be edited and deleted.

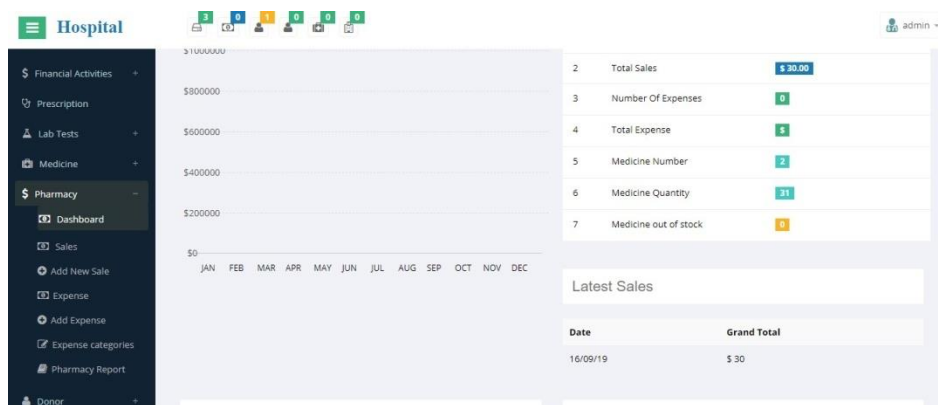


Id	Name	Category	Store Box	Purchase Price	Sale Price	Quantity	Generic Name	Company	Effects	Expire date	Options
2	Cough	Fever	2	\$ 30	\$ 50	12	cough	sun pharma	nothing	21-09-2019	[Load] [Edit] [Delete]
1	Paracetamol	Fever	2	\$ 20	\$ 30	19	paracetamol	Sun Pharma	nausea	13-11-2019	[Load] [Edit] [Delete]

☰ Pharmacy Module

☞ Pharmacy Module take control of a whole pharmacy.

☞ Different options of this module give you full freedom to organize the pharmacy and



☰ Donor

☞ List of donor can be added.

☞ Click "Donor" at the side menu. Click 'add new' button at the left top.

☞ A form will appear. Fill up the form and submit.

☰ Bed

👉 User can manage beds through this module.

👉 Steps:

1. First create bed categories from "Bed Categories" at menu.
2. Then Add bed from "Add Bed".

Users also can manage bed allotments through this module

👉 Steps:

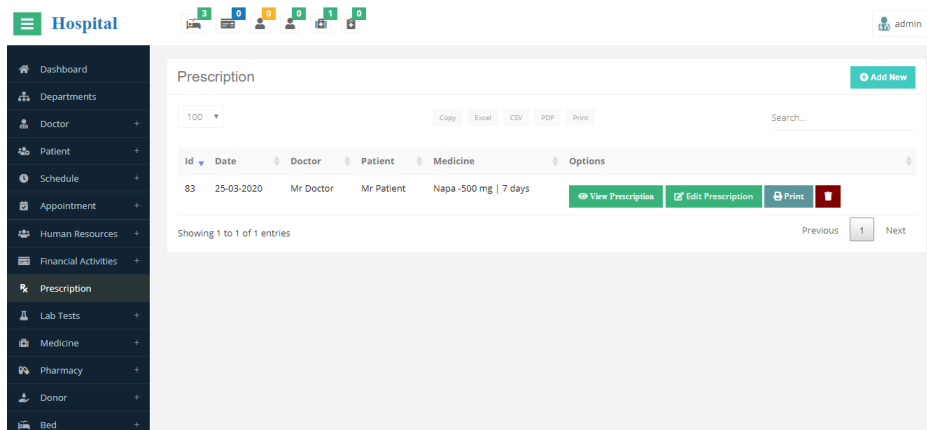
1. Check the available beds from "Beds".
2. Go to "Add Allotment".
3. Select an available bed and allotted dates.
4. Submit.

📄 Prescription

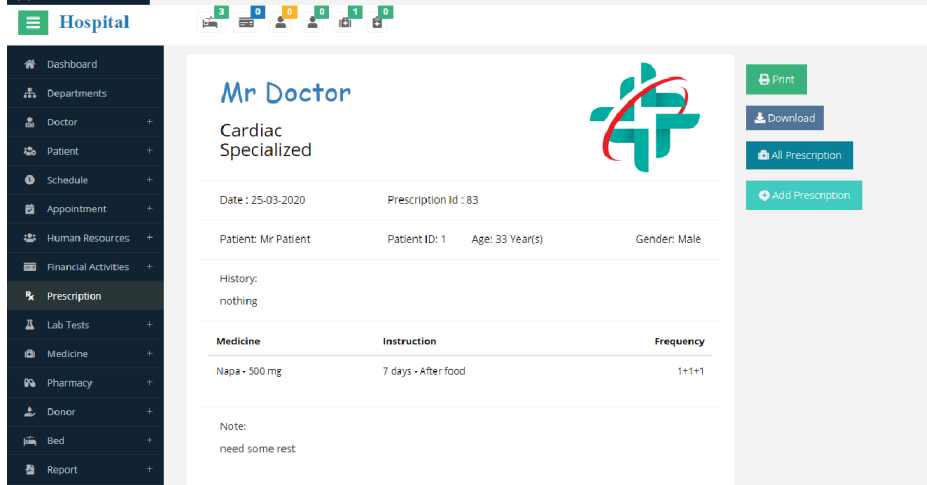
👉 From prescription module patient can view and download their prescription.

👉 Doctors can view, edit and download prescriptions.

👉 User can directly go to the print page with click in list of prescription.



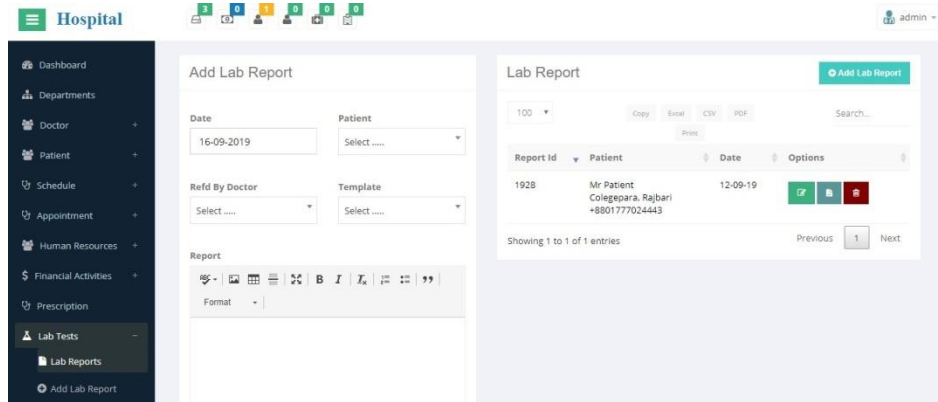
The screenshot shows the 'Hospital' dashboard with a sidebar menu on the left containing options like Dashboard, Departments, Doctor, Patient, Schedule, Appointment, Human Resources, Financial Activities, Prescription, Lab Tests, Medicine, Pharmacy, Donor, and Bed. The main content area is titled 'Prescription' and features a table with columns for Id, Date, Doctor, Patient, and Medicine. A single entry is visible: Id 83, Date 25-03-2020, Doctor Mr Doctor, Patient Mr Patient, and Medicine Napa -500 mg | 7 days. Action buttons for 'View Prescription', 'Edit Prescription', and 'Print' are present for this entry. A search bar and export options (Copy, Excel, CSV, PDF, Print) are also visible at the top of the table.



The screenshot shows the 'Hospital' dashboard with a sidebar menu on the left. The main content area is titled 'Mr Doctor Cardiac Specialized' and displays details for a specific prescription. The patient information includes: Date: 25-03-2020, Prescription Id: 83, Patient: Mr Patient, Patient ID: 1, Age: 33 Year(s), and Gender: Male. The history is listed as 'nothing'. The medicine table shows: Napa - 500 mg, Instruction: 7 days - After food, and Frequency: 1+1+1. A note at the bottom states 'need some rest'. Action buttons for 'Print', 'Download', 'All Prescription', and 'Add Prescription' are visible on the right side.

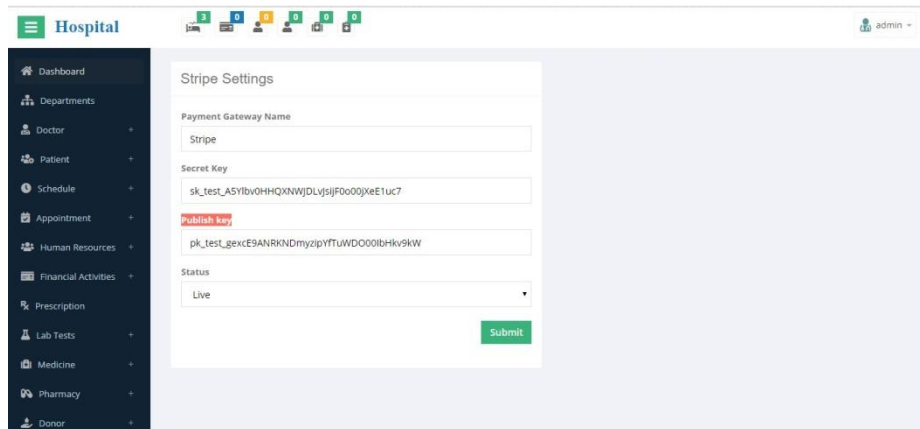
Lab Tests

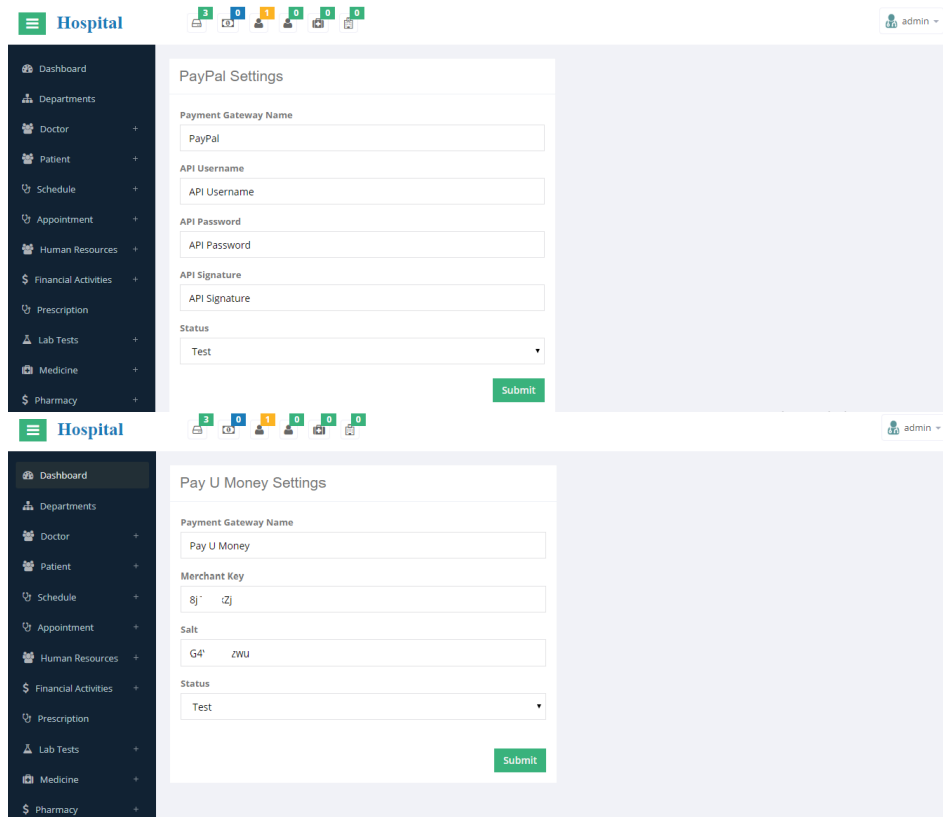
- 👍 From lab test module patient can view and download their lab test .
- 👍 Doctors can view, edit and download lab reports as well as patients.



Payment Gateway

- ✔ Three Payment gateways are implemented in the system. Stipe,Paypal and Pay U Money.
- 👍 For Stripe you have to enter Secret Key, Publish key.
- 👍 For Pay U Money you have to enter Merchant Key and Salt.
- 👍 For Paypal you have to enter API username, password and signature.





The image shows two screenshots of the Hospital Manager application's settings interface. Both screenshots feature a dark sidebar menu on the left with options like Dashboard, Departments, Doctor, Patient, Schedule, Appointment, Human Resources, Financial Activities, Prescription, Lab Tests, Medicine, and Pharmacy. The top right of each screenshot shows the user 'admin' and a notification bar with icons for messages, alerts, and other notifications.

The top screenshot is titled 'PayPal Settings' and contains the following fields:

- Payment Gateway Name: PayPal
- API Username: API Username
- API Password: API Password
- API Signature: API Signature
- Status: Test


 A green 'Submit' button is located at the bottom right of the form.


The bottom screenshot is titled 'Pay U Money Settings' and contains the following fields:


- Payment Gateway Name: Pay U Money
- Merchant Key: 8j zj
- Salt: G4 zWU
- Status: Test


 A green 'Submit' button is located at the bottom right of the form.


SMS

 SMS can be sent through this application in SMS module.

 User can send manual sms to all patients, doctor,donor along with single patient, single doctor. User can add template for sending sms easily by one click.

 Template can create with various shortcode to address or any other amount for uniqueness of the sms.

 There is a section named auto sms template. Admin can activate or deactivate of auto sms section for where to send auto sms where not to.

 For sending SMS user should have a Twilio,ClickaTell account or MSG91 account.

Go To-> www.twilio.com and create an account.

After login you will get an Twilio SID,Token Password and sender number. Go

To-> www.clickatell.com and create an account.

After login you will get an api id and api password. Or

Go To-> www.msg91.com and create an account. Get

Auth Key and sender.

 Then Go To Hospital Manager application.

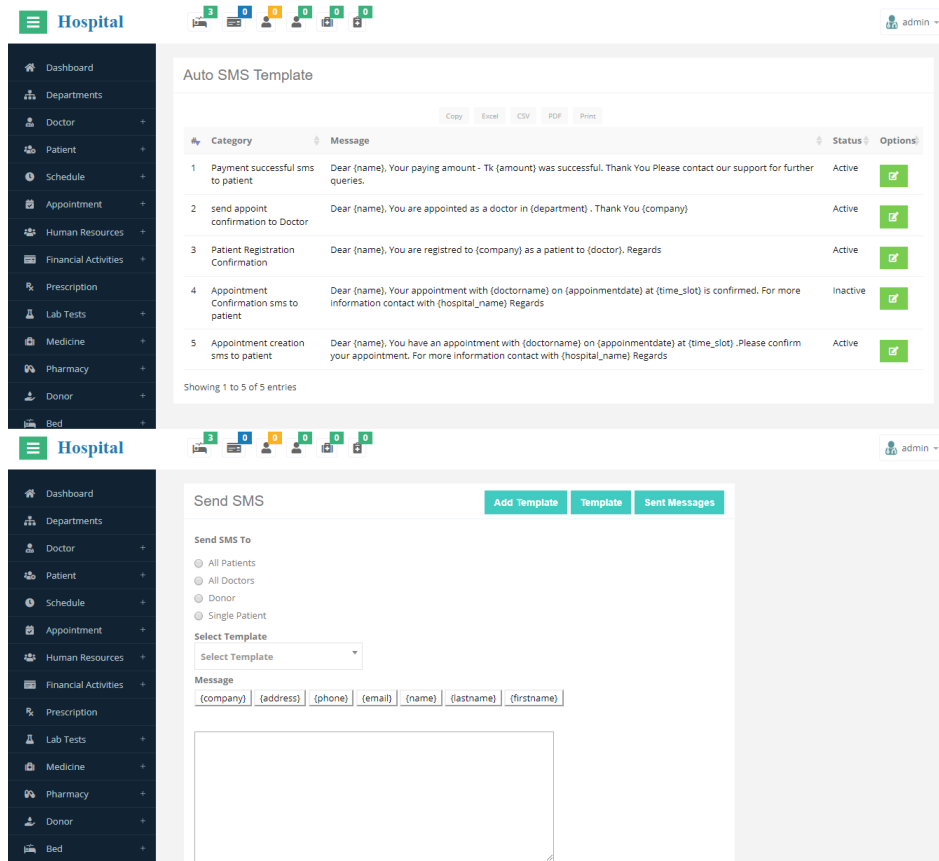
Click SMS->sms settings.

Select clickatel or msg91. Submit the form with your details.

👉 Now your SMS settings is configured.

👉 Buy credit in clickatell or MSG91 and send SMS as much as you want.

👉 For sending SMS, Go To SMS -> Send SMS
Select whom you want to send sms.
Write message and send.



The screenshot displays two parts of the 'Hospital' management system interface. The top part shows the 'Auto SMS Template' screen, which lists five pre-defined SMS templates. The bottom part shows the 'Send SMS' configuration screen, where users can select recipients and templates.

Category	Message	Status	Options
1	Payment successful sms to patient Dear (name), Your paying amount - TK (amount) was successful. Thank You Please contact our support for further queries.	Active	✎
2	send appoint confirmation to Doctor Dear (name), You are appointed as a doctor in (department) . Thank You (company)	Active	✎
3	Patient Registration Confirmation Dear (name), You are registered to (company) as a patient to (doctor), Regards	Active	✎
4	Appointment Confirmation sms to patient Dear (name), Your appointment with (doctorname) on (appointmentdate) at (time_slot) is confirmed. For more information contact with (hospital_name) Regards	Inactive	✎
5	Appointment creation sms to patient Dear (name), You have an appointment with (doctorname) on (appointmentdate) at (time_slot), Please confirm your appointment. For more information contact with (hospital_name) Regards	Active	✎

The 'Send SMS' screen includes the following fields and options:

- Send SMS To:** Radio buttons for All Patients, All Doctors, Donor, and Single Patient.
- Select Template:** A dropdown menu labeled 'Select Template'.
- Message:** A text input field with a placeholder containing shortcodes: (company) | (address) | (phone) | (email) | (name) | (lastname) | (firstname).
- Buttons:** 'Add Template', 'Template', and 'Send Messages'.

📄 Bulk Email

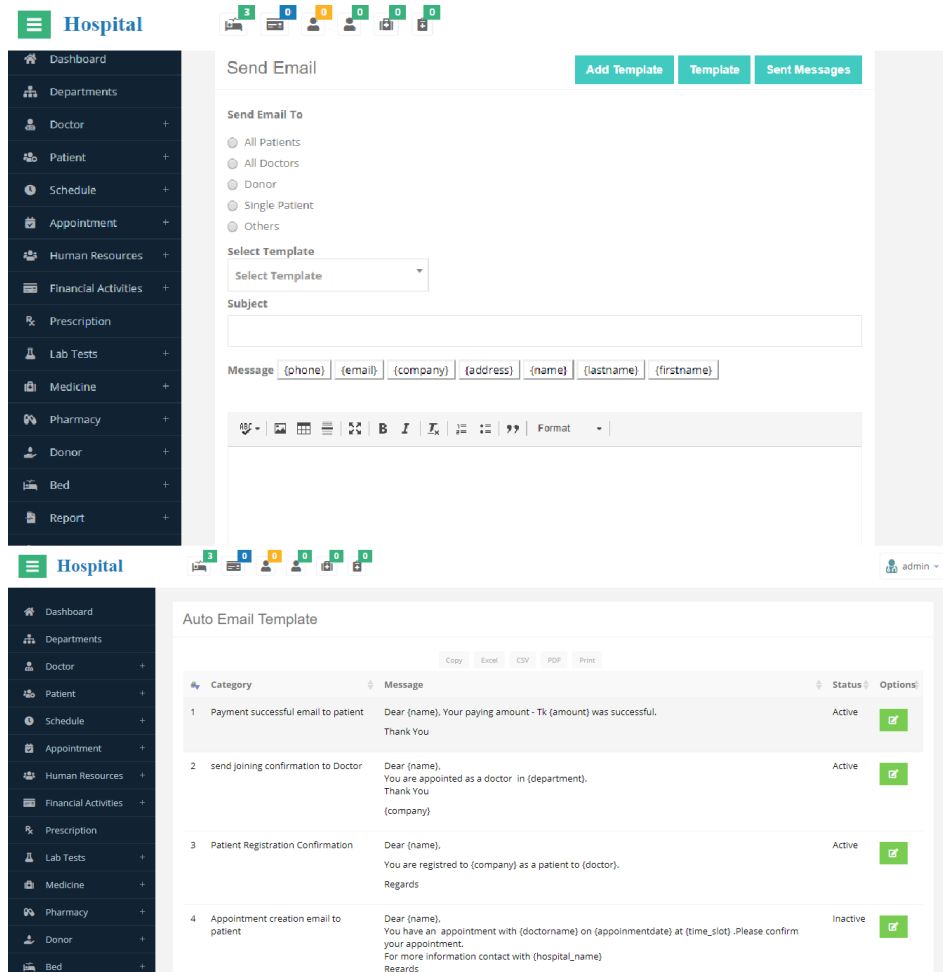
👉 Admin can send bulk email to individual employee or patient of his/her institution or organization.

👉 Admin email settings can be changed. It must be the email from your server. Suppose you host the script in codearistos.net Then your admin email must be something@codearistos.net for sending the email properly

👉 User can send manual email to all patients, donor, doctors along with single doctor and single patient. User can add template for sending emails easily by one click.

👉 Template can create with various shortcode to name or any other given tag for uniqueness of the email.

There is a section named auto email template. Admin can activate or deactivate of auto email section for where to send auto email where not to.



The screenshot displays two sections of the Hospital Admin Panel. The top section is titled 'Send Email' and includes a sidebar with navigation options like Dashboard, Departments, Doctor, Patient, etc. The main content area has buttons for 'Add Template', 'Template', and 'Sent Messages'. It features a 'Send Email To' section with radio buttons for 'All Patients', 'All Doctors', 'Donor', 'Single Patient', and 'Others'. Below this is a 'Select Template' dropdown, a 'Subject' text field, and a 'Message' field with placeholders for variables like {phone}, {email}, {company}, {address}, {name}, {lastname}, and {firstname}. A rich text editor toolbar is also visible.

The bottom section is titled 'Auto Email Template' and shows a table of pre-defined email templates. The table has columns for Category, Message, Status, and Options.

Category	Message	Status	Options
1 Payment successful email to patient	Dear {name}, Your paying amount - Tk {amount} was successful. Thank You	Active	
2 send joining confirmation to Doctor	Dear {name}, You are appointed as a doctor in {department}. Thank You {company}	Active	
3 Patient Registration Confirmation	Dear {name}, You are registered to {company} as a patient to {doctor}. Regards	Active	
4 Appointment creation email to patient	Dear {name}, You have an appointment with {doctorname} on {appointmentdate} at {time_slot}. Please confirm your appointment. For more information contact with {hospital_name} Regards	Inactive	

Settings

Site Configuration Can be changed through this module.

Di"erent types of settings can be managed.

1. Site Title.
2. Address.
3. Phone Number.
4. Email Address.
5. Currency.
6. Discount type. Either it will be flat or percentage.

There is also payment gateway settings including PayPal and Pay U Money.

Language can be also changed from Settings->Language. Di"erent types of language can be set.



 **Language**

👉 By default there are 6 different languages. You can also add a new language.

- Arabic
- English
- French Italian
- Spanish
- Portuguese
-

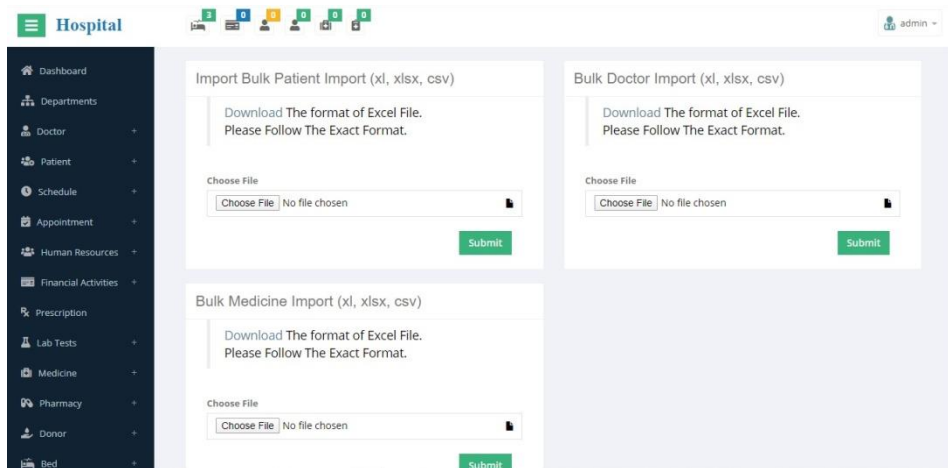
👉 Procedures to add a new language:

1. Suppose you want to translate into Dutch.:
2. Copy all the files from application/language/english folder and paste into application/language/dutch folder. if there is already dutch folder, Otherwise create dutch folder then paste into it.
3. After that, Open application/language/dutch /system_syntax_lang.php file and translate all the text in the right side of every equation. Don't translate the left side. Translate only right side.
4. After that go to application/ modules/settings/views/language.php file and add a new option in the select field where option value attribute should be 'dutch '
5. Go to common/assests/Datatables/language folder Create a file dutch.json
6. Copy all the code from english.json and paste into dutch.json
7. Then translate necessary text into the dutch language. Here also remember not to translate the left side.
8. In right side dont translate the text with pre and post underscore (_) text like _START_ , _TOTAL_ , _MENU_ etc
8. Login to the software.
9. Go to settings->language
10. Select dutch
11. Submit

Bulk Import

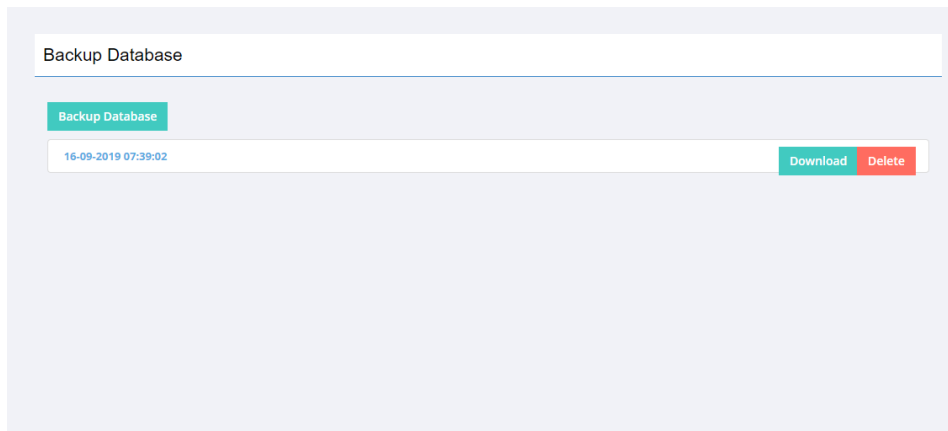
👉 Download the format of the excel file and remain all the header information same as the given format.

👉 You can import patient list, doctor list and medicine list from .csv, .xl and .xls format files.




Database backup

 You can backup your recent database and restore it for further usage easily.



Website

 This is the complete website of the hospital from where user can login take schedule, appointment.

Contact

 ross@infocentroidtech.com

 India