PROJECT-3
Name:Hospital management System
Domain:Health care
Duration:14-16 months

Reasons for developing the project:
1)Maintain patient record
2)Avoid physical work
3)Faced problem in maintaining all hospital data
4)Providing appointment for patients physically was creating trouble in the hospital
5)Communicating all documents through files was getting messed up

Modules:
1)Admin
2)Doctor
3)Patient
4)Laboratorist
5)Receptionist
6)Accountant
7)Nurse
8)Pharmacist

Admin:
Workflow of Admin Module
1)Admin can create the department
2)Admin can create the user
3)Admin can track the activity of the hospital

Doctor Module:
Workflow or use of doctor module :
1.Doctor can view his schedule
2.Doctor can provide appointment to patient
3.Doctor can approve appointment to patient
4.Doctor can provide prescription to patient
5.Doctor can view the blood bank details
6.Doctor can add patient
7.Doctor can add report(Operation/Birth/Death)
8.Doctor can send message to the patient
9.Doctor can edit his profile.
10.Doctor can Allot a bed to patient.

Steps to provide appointment to the patient :
1.Login as Doctor, doctor dashboard page will be displayed.

2.Click on Appointment dropdown
3.Click on Appointment list link, appointment page will be displayed.
4.Click on Add appointment button, add appointment page will be displayed
5.Select date, time and patient and click on Submit button
A new appointment will be created and it will be displayed in new appointment page of doctor module and also in patient module.

Steps to approve appointment :
1.Login as Doctor.
2.Click on Appointmnt dropdown.
3.Click on Requested appointment link, requested appointment page will be displayed.
4.Select and appointment and click on approve button.
5.Approve appointment page will be displayed, click on Approve button.
Appointment will be approved and it will be displayed in Appointment page of doctor module and patient module.

Steps to add prescription :
1.Login as doctor
2.Click on prescription in LHN(Left hand navigation)
3.Click on Add prescription button in RHN(Right hand navigation)
4.In add prescription page enter all the details(date, time, patient name, case history, medication, note) and click on submit button.
A prescription will be created and it will be displayed in Prescription page. Whenever doctor creates a prescription it will be displayed in patient module. On adding the prescription it can be edited, deleted, viewed and can add diagnostic report.

Steps to create a patient :
1.Login as Doctor.
2.Click on Patient link in LHN, patirnt page will be displayed.
3.Click on Add patient button in RHN, add patient page will be displayed.
4.Enter all the details ( ) and click on Submit button.
The patient will be created and it will be displayed in patient list in doctor module once we provide appointment to the particular patient. The created patient will also be displayed in admin module.

Steps to allot bed for patient :
1.Login as doctor.
2.Click on Bed allotment link in LHN, bed allotment page will be displayed
3.Click on Add bed allotment button in RHN, Add bed allotment page will be displayed
4.Enter all the details ( ) and click on Submit button.
The bed will be alloted to the patient successfully and it will be displayed in list of bed allotment and also displayed in patient module.

Note : The blood bank module is just a read access to the doctor where he can get 2 types of information :
1.About the donor
2.Blood bank status(feature is not implemented >> partially implemented project)

Steps to add report :
1.Login as Doctor.
2.Click on Reports link in LHN, reports page will be displayed.
3.Click on Add report button, add report page will be displayed.
4.Select the type of report, select the date, write the description, select the patient and click on Submit button.
The report will be added and displayed in Reports page of doctor module and also in Patients module.

Steps to send message to the patient :
1.Login as Doctor
2.Click on Message link in LHN
3.Click on New Message button
4.Select the patient and enter the messgae and click on send buton.
The message will be sent to the patient . It will be displayed in message module of the patient account.
Steps to edit profile :
1.Login as doctor
2.Click on Profile link in LHN
3.Edit the profile and click on Update button.
The profile will be edited successfully.

Steps to add diagnosis report :
1.Login as doctor.
2.Click on Prescription link in LHN
3.Click on View diagnosis report
4.Select the date, time, report type, browse the document, description and click on Submit button.
A new diagnosis report will be uploaded and it will be displayed in the add diagnosis report page

Patient Module :
Workflow or use of patient module :
1.Patient can view his schedule
2.Patient can apply for appointment.
3.Patient can view the prescription.
4.Patient can view the doctors available.
5.Patient can view the blood bank details.

6.Patient can view the admit history(bed allotment).
7.Patient can view the operation history(reports).
8.Patient can view the invoice.
9.Patient can send message.
10.Patient can update his profile.

Steps to apply for appointment :
1.Login as Patient.
2.Click on Appointment dropdown in LHN
3.Click on Appointment list link in LHN, appointment page will be displayed
4.Click on Apply for appointment button in RHN, apply appointment page will be displayed.
5.Enter all the details( ), click on Submit button.
The appointment request will be created and displayed in pending appointment in patient module and requested appointments in doctor module.
Note :
Prescription sub module :
Whenever doctor adds prescription it will be displayed in this module, patients can view the prescription and download the prescription. Whenever doctor is adding diagnosis report it will be displayed in this page, the patient can see and download it.
Doctor submodule :
With the help of this module patient will get information about the doctors available in hospital, it is just read access.
Note : The blood bank module is just a read access to the doctor where he can get 2 types of information :
1.About the donor
2.Blood bank status(feature is not implemented >> partially implemented project)
Admit History :
Whenever the doctor is alloting a bed for patient it will be displayed in this page, its just a read access to patient.
Invoice module :
Whenever a accountant is uploading an invoice it will be displayed in this page. The patient can view it and he can download it.

Steps to send message :
1.Login as Patient
2.Click on Message link in LHN
3.Click on New Message button
4.Select the doctor and enter the messgae and click on send buton.
The message will be sent to the Doctor. It will be displayed in message module of the patient account.

Steps to edit profile :
1.Login as Patient

2.Click on Profile link in LHN
3.Edit the profile and click on Update button.
The profile will be edited successfully.

Accountant Module
Workflow or use of Accountant :
Create and manage the invoice

Steps to create the invoice :
1.Login as Accountant.
2.Click on Invoice link in LHN.
3.Click on Add invoice, add invoice page will be displayed.
4.Enter all the details like invoice title(reason why patient is admitted), tax%, discount amount, payment status, treatment name and amount.
5.Click on Create invoice button.
New invoice will be created and displayed in manage invoice page. Whenever invoice is created it will be displayed in patient module and admin module.

Receptionist module
Workflow or use of Receptionist module :
1.Receptionist can provide an appointment.
2.Receptionist can approve patients appointment.
3.Receptionist can create a patient.
4.Receptionist can edit profile.
Steps to provide an appointment :
1.Login as Receptionist.
2.Click on Appointment dropdown.
3.Click on Appointment list, appointment list page is displayed.
4.Click on Add appointment button, add appointment page will be displayed.
5.Enter all the details( ) and click on Submit button.
The appointment will be created and displayed in Appointment list page of Receptionist, Doctor, Patient module.

Steps for creating patient :
1.Login as Receptionist
2.Click on Patient link.
3.Click on Add patient, add patient page is displayed.
4.Enter all the details( ) and click on Submit button.
The patient will be created and displayed in patient list of receptionist, admin module. It will be displayed in Doctor module once we provide appointment with respective doctor.

Steps to approve the appointment :
1.Login as Receptionist.

2.Click on Appointmnt dropdown.
3.Click on Requested appointment link, requested appointment page will be displayed.
4.Select and appointment and click on approve button.
5.Approve appointment page will be displayed, click on Approve button.
Appointment will be approved and it will be displayed in Appointment page of doctor module , patient module and Receptionist.

Nurse Module :
Workflow or use of Nurse module :
1.Nurse can view their schedule.
2.Nurse can create a patient.
3.Nurse can add a bed.
4.Nurse can allot bed to patient.
5.Nurse can update blood bank status.(not implemented)
6.Nurse can add blood donor details.
7.Nurse can add reports to patient(operation/birth/death).
8.Nurse can edit her profile.

Steps to create a patient :
1.Login as Nurse
2.Click on Patient link.
3.Click on Add patient, add patient page is displayed.
4.Enter all the details( ) and click on Submit button.
The patient will be created and displayed in patient list of Nurse, receptionist, admin module. It will be displayed in Doctor module once we provide appointment with respective doctor.

Steps to manage or add bed details
1.Login as Nurse.
2.Click on Bed/Ward dropdown.
3.Click on Manage bed link in LHN(left hand navigation), manage bed page will be displayed
4.Click on Add bed in RHN, add bed page will bed displayed.
5.Enter all the details such as bed number, type and description.
6.Click on Submit button.
Bed details will be created and displayed in manage bed page in Nurse and also in bed allotment in doctor and nurse module.
Steps to allot bed for patient :
1.Login as Nurse.
2.Click on Bed/Ward drop down in LHN
3.Click on Bed allotment link in LHN, bed allotment page will be displayed
4.Click on Add bed allotment button in RHN, Add bed allotment page will be displayed
5.Enter all the details ( ) and click on Submit button.
The bed will be alloted to the patient successfully and it will be displayed in list of bed allotment of Nurse module and doctor as well and also displayed in patient module admit

history.

Steps to add blood donor details :
1.Login as Nurse.
2.Click on Blood bank dropdown.
3.Click on Blood donor link in LHN.
4.Click on Add Blood Donor in RHN, add blood donor page will be displayed.
5.Enter all the details of blood donor( ) and click on Submit button.
The blood donor information will be added and displayed in Blood donor list of Nurse, doctor, patient and laboratory module.

Steps to add reports :
1.Login as Nurse.
2.Click on Reports link in LHN, reports page will be displayed.
3.Click on Add report button, add report page will be displayed.
4.Select the type of report, select the date, write the description, select the patient,select doctor and click on Submit button.
The report will be added and displayed in Reports page of Nurse,doctor module and also in Patients module.

Laboratorist Module(partially implemented module)
Workflow or Use of laboratorist :ranga@gmail.com/ranga@123
1.Laboratorist adding donor details.
2.Laboratorist adding blood bank details.
3.Laboratorist adding diagnostic report.
4.Laboratorist can edit his profile.
Steps to add donor details :
1.Login as Laboratorist .
2.Click on Blood donor link in LHN.
3.Click on Add Blood Donor in RHN, add blood donor page will be displayed.
4.Enter all the details of blood donor( ) and click on Submit button.
The blood donor information will be added and displayed in Blood donor list of Nurse, doctor, patient and laboratory module.

Pharmacist module :(us: charan@gmail.com pwd : charan@123)
Workflow or use of pharmacist :
1.Pharmacist can add medicine category. Dolo 650 >> Paracetamol
2.Pharmacist can add a medicine. XYZ pills >> Tranquilizer
3.Pharmacist can edit his profile.
Steps to add medicine category :
1.Login as Pharmacist.
2.Click on Medicine category link in LHN, medicine category page will be displayed.
3.Click on Add medicine category button in RHN, add medicine category page will be displayed.

4.Enter all the details like name and description of medicine category, click on Submit button.
A new medicine category will be added and displayed in medicine category page
Steps to add a medicine :
1.Login as Pharmacist.
2.Click on Medicine link in LHN, medicine page will be displayed.
3.Click on Add medicine button in RHN, add medicine page will be displayed.
4.Enter all the details ( ) and click on Submit button.
The medicine will be added and displayed in medicine page of pharma