About the project

Our project **Advanced Hospital Management System** includes registration of patients, storing their details into the system and also computerized billing in the pharmacy, and labs. Our software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. It includes a search facility to know the current status of each room. User can search availability of a doctor and the details of a patient using the id.

The Advanced Hospital Management System can be entered using a username and password. It is accessible either by an administrator or receptionist. Only they can add data into the database. The data can be retrieved easily. The interface is very user-friendly. The data are well protected for personal use and makes the data processing very fast.
EXISTING SYSTEM

Existing system refers to the system that is being followed till now. Presently all the hospital functionalities are done manually. That is if a patient want to consult a doctor he can visit their till his chance called. This is make the person very difficult. Out_Patient and In_Patient tickets are distributed directly. The main disadvantage is time consuming.

LIMITATIONS OF EXISTING SYSTEM

- Lack of security of data.
- Time consuming.
- Consumes large volume of paper work.
- Manual work
- No direct role for the higher officials.

To avoid all these limitations and make the system working more accurately it needs to be computerized.

OBJECTIVES OF PROPOSED SYSTEM

The Hospital management system software is user-friendly software. The main objectives of the system is which shows and helps you to collect most of the information about Hospitality and Medical Services The system
is very simple in design and to implement. The system requires very low system resources and the system will work in almost all configurations.

The main objectives of the proposed system can be enumerated as follows:

- Patients are easily allocated to the doctors.
- Doctors Search is possible.
- Today’s patient list help doctors to search their patients

ADVANTAGES OF PROPOSED SYSTEM

The system is very simple in design and to implement. The system requires very low system resources and the system will work in almost all configurations.

- Security of data.
- Ensure data accuracy’s.
- Administrator controls the entire system.
- Reduce the damages of the machines.
- Minimize manual data entry.
- Greater efficiency.
- User friendly and interactive.
- Minimum time required.
SOFTWARE REQUIREMENT SPECIFICATIONS

SOFTWARE SPECIFICATIONS

Operating System : Windows 2000/XP

Font end : Visual Basic 6.0

Back end : MS Access

Design Tool : Data Flow Diagram

HARDWARE SPECIFICATIONS

Processor : X86 Compatible processor with 1.7 GHz Clock speed

RAM : 512 MB or more

Hard disk : 20 GB or more

Monitor : VGA/SVGA

Keyboard : 104 Keys

Mouse : 2 buttons/ 3 buttons
DATA FLOW DIAGRAM

CONTEXT DIAGRAM

Controls Overall Data
Administrator

Advanced Hospital Management System

Add/Edit/Delete Data
User
Level 1 DFD Administrator
Level 1 DFD User
Level 2 DFD Admin

Hospital Management Process

- Admin
  - Login Details
  - Login

Add New Admin
- Admin

Add/Edit/View New User
- User

Add/Edit/View Doctor
- Doctor

Add/Edit/View New Departments
- Departments

Add/Edit/View New Rooms
- Rooms

TPL
- TPL

Blood bank registration
- Bloodbank

Eye bank registration
- Eyebank
GANTT CHART

<table>
<thead>
<tr>
<th>DEC 23</th>
<th>JAN 10</th>
<th>JAN 29</th>
<th>FEB 13</th>
<th>MAR 9</th>
<th>APR 13</th>
<th>APR 26</th>
</tr>
</thead>
<tbody>
<tr>
<td>System study</td>
<td>Design database</td>
<td>Design forms</td>
<td>Code for application</td>
<td>Code database part</td>
<td>Integrate and test</td>
<td>User manual and documentation</td>
</tr>
</tbody>
</table>
APPENDIX

Screen layouts

Login

![Login Form]

**UserName**: Abu

**Password**: ********

**Buttons**: AdminLogin, StaffLogin, Cancel
Admin registration

![Admin Registration window]

- **Username**: Devi
- **Password**: ****

[Buttons: Save, Cancel]
User Registration

![User Registration Form]

- **Name**: Vinu
- **Age**: 35
- **Sex**: Male
- **Address**: Vinu Niyam Kozhancheri
- **PhoneNumber**: 047396952
- **UserName**: Vinu
- **Password**: ********
- **ConfirmPassword**: ********

[Save] [Cancel]
Doctor Registration

**DOCTOR'S REGISTRATION**

<table>
<thead>
<tr>
<th>Dr. Name</th>
<th>Chandrasekar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sex</td>
<td>Male ☐ Female ☐</td>
</tr>
<tr>
<td>Department</td>
<td>General Medicine ☐</td>
</tr>
<tr>
<td>Consultation day</td>
<td>Wednesday ☐</td>
</tr>
<tr>
<td>Consultation Time</td>
<td>From 9 AM To 12 PM ☐</td>
</tr>
<tr>
<td>Address</td>
<td>Vishali Bhavan, Trivandrum</td>
</tr>
<tr>
<td>Contact Number</td>
<td>95956665939</td>
</tr>
<tr>
<td>Emergency Number</td>
<td>425586</td>
</tr>
<tr>
<td>Consultation fee</td>
<td>500</td>
</tr>
<tr>
<td>Total Patients</td>
<td>25</td>
</tr>
<tr>
<td>Date</td>
<td>9/17/2008 ☐</td>
</tr>
</tbody>
</table>

**Save** ☐ **Cancel** ☐
Edit Doctor

![Edit Doctor Form]

- **Doctor name**: R. Saith Kumar
- **Time**: 9:30 am to 1:30 pm
- **Address**: kmalanivas, manzil, kumarapuram p.o, tvpm
- **Contact no**: 25795621
- **Emergency no**: 25485627

[Update] [Cancel]
Add Departments

Add New Department

Dept: Ortho
Hod: Arun
Floor: 3

Save  Cancel
Add Rooms

![Add Rooms Window]

- **Room No:** 3
- **Room Type:** Single
- **Amt/day:** 300

[Add] [Cancel]
Room Allocations

![Room Allocation Form]

The form includes fields for PatientID, RoomNo, RoomType, and Amt/day. The screenshot shows the form with the following entries:

- PatientID: 121
- RoomNo: 55
- RoomType: Single room
- Amt/day: 360

There are buttons for Save and Cancel.
Patient Registration

![PATIENT REGISTRATION Form]

- **Name**: Lalu
- **Age**: 40
- **Sex**: Male
- **Address**: Lalu Nivas, Trivandrum
- **Dr. preferred**: Krishnan
- **Patient ID**: 10
- **Reg. Fee**: 200
- **Admin date**: 9/10/2000

Options:
- **IP**
- **OP**
- **Room No**: 1
Edit Patient Details

![Edit Patient Details](image_url)
IP Search

![IP Search Interface]
Doctor Search

![Doctor Search Window]

- **Doctor name**: Kumar
- **Department**: Paed
- **Consultation Time**: 10 am to 1 pm
- **Address**: Kottayam
- **Contact Number**: 5656565
- **Emergency Number**: 6666

[Close button]
IP Billing

![IP Bill Interface](image-url)
OP Billing

**OP BILL**

- **BillNumber**: 7
- **PatientID**: 
- **Name**: Rakesh
- **Doctor**: Arun
- **Date**: 9/19/2008
- **Amount**: 600
- **Pharmacy**: 200
- **Lab test**: 800
- **Total**: 1600

[Buttons: Save $ Print, Close]
Lab Billing

Lab Bill

BillNumber: 14
PatientID: 5

Lab Test Name

Amt

Add to List

<table>
<thead>
<tr>
<th>SI No</th>
<th>Test Names</th>
<th>Amt</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Blood</td>
<td>200</td>
</tr>
</tbody>
</table>

Total: 200

Save $ Print  Cancel
Medicine Update

![Medicine Update Window]

- **Medicine**: Teplin
- **Medicine type**: Capsule
- **Amt/unit**: 8
- **Expiry Date**: 9/15/2008
- **Stock**: 5000
Pharmacy Billing

[Image of a pharmacy billing software interface with fields for Date, Bill Number, Patient ID, Medicine, Quantity, and Price, along with a table forSI No, Medicine, Qty, and Amount, and buttons for Save and Cancel.]
Change Password

![Change Password Window]

- **Username**: Anu
- **Present Password**: ********
- **New Password**: ********
- **Confirm Password**: ********

[Buttons]: Change, Cancel
Lab Update
Discharge Sheet

![Discharge Sheet Image]
Today’s Patient List

TODAYS PATIENT LIST

Doctor's Name: Kumar

OK
Blood Bank Registration

<table>
<thead>
<tr>
<th>Name</th>
<th>Arun</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>28</td>
</tr>
<tr>
<td>Sex</td>
<td>Male</td>
</tr>
<tr>
<td>Address</td>
<td>Dream House</td>
</tr>
<tr>
<td></td>
<td>Panavoor</td>
</tr>
<tr>
<td></td>
<td>Trivandrum</td>
</tr>
<tr>
<td>Phone No</td>
<td>9995666777</td>
</tr>
<tr>
<td>Blood Group</td>
<td>B+</td>
</tr>
</tbody>
</table>
Eye Registration

![Eye Registration Form]

- **Name**: Deepu
- **Age**: 40
- **Sex**: Male
- **Address**: Deepu Bhavan N S junction pothencode
- **Phone No**: 0471585868