

Chongqing University of Technology

Course Design

Course Website Development

Topic Hospital Management System

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1 Project Overview

My main focus is design a unique Hospital Management System that will improve hospital experience for both patients and the hospital authorities. The whole system will run on internet. The system is written in jsp, servlet, java script, jQuery, bootstrap, HTML and CSS. Users will have the facility to log in from any place with internet connection. After that they will be able to perform various tasks that are designed for them. The primary target is to focus on every user who can get our service and get benefitted. It can be turned into a paid system only for doctors. A doctor can have different types of patient and the number of patients also vary from doctor to doctor. A doctor can have various number of patients. We can assume that doctors will need different amount of cloud storage. We can allocate a fixed cloud storage for each doctors. They can ask for extra storage according their demand and they will be charged for their demand. We can make various package and assign various cost. The patients will have some allocated space which they can use to keep their information. As the patient only needs storage for only themselves they can use this as a free user. This will make the system useful and more convenient for everyone. Keeping the goal in mind the system we developed works as a social network where information's are more close and relevant for every user. This report contains the full details of the system and its functionality in details.

1.1 Background

Various management program for management are present out there but there are not too many which provides the patients any functionality. The hospital system has been automated but the benefit is not for all. In such a situation I have figured out that there should be something for the patients. Some simple features for checking appointment, asking for appointment, prescription and test reports can reduce the hassle up to 70-80%. Because those are the sector where we face a lot of trouble and can find a way out. So this will allow us something that we were waiting for so long.

The world is moving to internet so this is the right time to think about this. I have checked some hospital management system on internet and some local programs that the hospital stuffs are using near me. They are also very well designed and have rich features too but nothing for the patients to be happy about is there. If we compare the benefits and the satisfaction form every point of view then we cannot conclude things beneficial for all.

1.2 System Targets and Implementation Technology

HospitalDCH Is implemented in the organizations for enhancing the efficiency of the organizations. The implementation of HospitalDCH is considered as interesting topic for the practitioners as well as researchers since last two weeks. HospitalDCH is a socio-technical system, it requires the parallel implementation of IT and human activity. Implementation of HospitalDCH involves both social and technical implementation. Social system implementation involves that proper users are selected, trained and supported in use of technology. Technical system implementation involves the hardware, software and data.

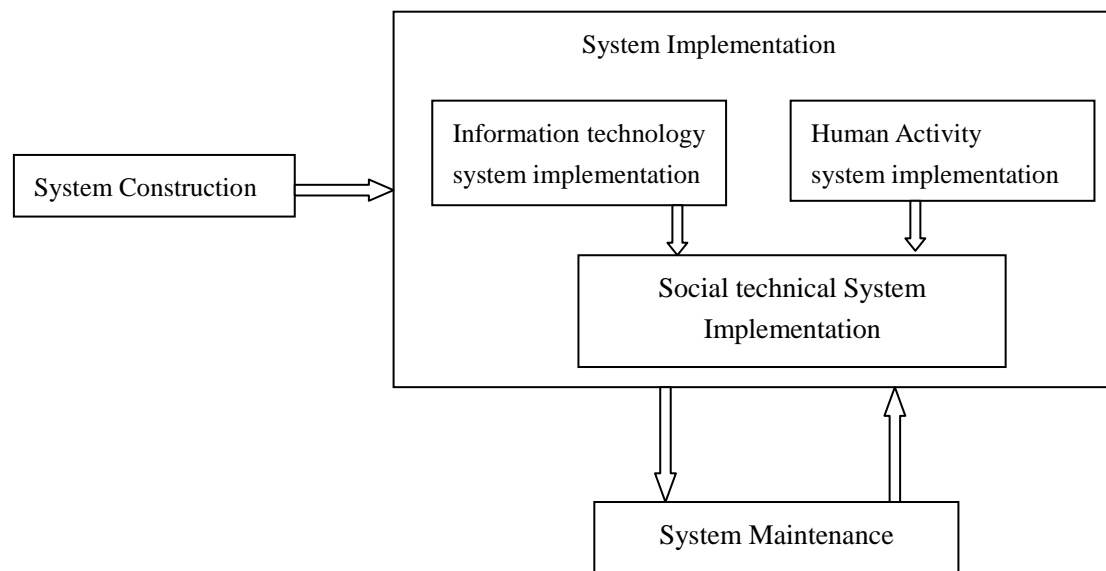


Figure 1: System Implementation

2 Database Design

A database is an organized collection of data, generally stored and accessed electronically from a computer system. Where databases are more complex they are often developed using formal design and modeling techniques. The database management system (DBMS) is the software that interacts with end users, applications, and the database itself to capture and analyze the data. The DBMS software additionally encompasses the core facilities provided to administer the database. The sum total of the database, the DBMS and the associated applications can be referred to as a "database system". Often the term "database" is also used to loosely refer to any of the DBMS, the database system or an application associated with the database.

2.1 Database Name

In the every database have a name. for the small scale project of Hospital Management System has also a database, this is a local server database no need to use internet the name of the database is : **HospitalDCH**

2.2 Database Table

A table is a collection of related data held in a table format within a database. It consists of columns, and rows. In relational databases, and flat file databases, a *table* is a set of data elements (values) using a model of vertical columns (identifiable by name) and horizontal rows, the cell being the unit where a row and column intersect. A table has a specified number of columns, but can have any number of rows. Each row is identified by one or more values appearing in a particular column subset. A specific choice of columns which uniquely identify rows is called the primary key. "Table" is another term for "relation"; although there is the difference in that a table is usually a multiset (bag) of rows where a relation is a set and does not allow duplicates. Besides the actual data rows, tables generally have associated with them some metadata, such

as constraints on the table or on the values within particular columns. The data in a table does not have to be physically stored in the database. Views also function as relational tables, but their data are calculated at query time. External tables can also be thought of as views. List of the table below

2.2.1 Users Table

Table 2-1 Users Table

Table Name	Users			
Column	Data Type	Allowable null value	constraint condition	Introduce
UserName	Nvarchar(20)		PK	Login Account
Password	Nvarchar(20)			Login Password
RealName	Nvarchar(20)	✓		User RealName
Age	Int(10)	✓		
Gender	Nvarchar(20)	✓		Male/ Female

2.2.2 Doctor Table

Table 2-2 Doctor Table

Table Name	Doctor			
Column	Data Type	Allowable null value	constraint condition	Introduce
No	Nvarchar(20)		pk	Doctor No
Name	Nvarchar(20)	✓		Doctor Name
Age	Int	✓		Doctor Age
Gender	Nvarchar(50)	✓		Male/ Female
Address	Nvarchar(50)	✓		Doctor Address
ClassNo	Nvarchar(50)	✓		Degree

2.2.3 Contact Table

Table 2-3 Contact Table

Table Name	Contact			
Column	Data Type	Allowable null	Constant	Introduce

		Value	Condition	
Full Name	Nvarchar(50)			Name
Email	Nvarchar(50)	✓		Mail
Phone	Nvarchar(50)			Phone number
Message	Nvarchar(500)			Message

2.2.4 Appointment Table

Table 2-4 Appointment Table

Table Name	Appointment			
Column	Data Type	Allowable null Value	Constant Condition	Introduce
FirstName	nvarchar(50)		PK	Patient Name
LastName	nvarchar(50)	✓		Patient Last Name
FullAddress	nvarchar(100)			Full Address of Patient
CityName	nvarchar(50)			Patient City
PhnNumber	nvarchar(50)			Patient Phone Number
Email	nvarchar(50)			Mail
DateOfBirth	nvarchar(20)			Birthday
AppointmentTime	nvarchar(20)			Time Of Appointment
ContactPerson	nvarchar(50)			Emergency Contact Number
BloodGroup	nvarchar(10)			Blood Group
Age	nvarchar(20)			Age Of the Patient
Gender	nvarchar(20)			Male/female
SpecialMessage	text	✓		descriptions

3 Specific Function Description

3.1 Home Page

Home page is the common a page in web page where all of the information's have shortly . the visitor can easily understand the system of the management system .

in this hospital management system the same thing has occurred. Hospital are the essential part of our lives, providing appointments medical facilities to people suffering from various ailments, which may be due to change in climatic conditions, increased work-load, emotional trauma stress etc. It is necessary for the hospitals to keep track of its day-to-day. Activities & records of its patients, doctors, nurses, ward boys and other staff personals that keep the hospital running smoothly & successfully. But keeping track of all the and their records on paper is very and error prone. It also is very inefficient and a time-consuming process. Observing the continuous increase in population and number of people visiting the hospital. Recycling and maintaining all these records is highly unreliable, inefficient and error-prone. It is also not economically & technically feasible to maintain these on paper. In the Home of the web page are all things that can get the patients.

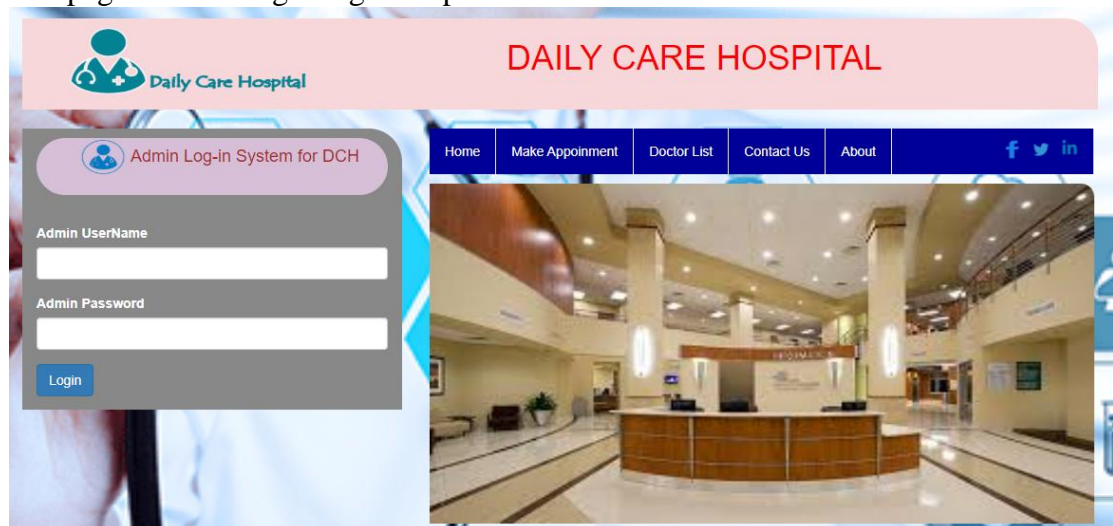


Figure 3.1: Home page

```
<div class="container">
<h4>  Admin Log-in System for DCH </h4> <br>
<form method="post" action="doUserServlet.do?type=login">
<div class="form-group">
<label for="userName">Admin UserName</label>
<input type="text" class="form-control" id="userName"
name="userName" >
</div>
<div class="form-group">
<label for="password">Admin Password</label>
```


[illegible]

3.2 Make Appointment

you concerned about how a treatment is affecting your daily life? If you have more than a few items to discuss, put them in order and ask about the most important ones first. Don't put off the things that are really on your mind until the end of your appointment—bring them up right away!



Figure 3.2 :Appointment Demo

Some doctors suggest you put all your prescription drugs, over-the-counter medicines, vitamins, and herbal remedies or supplements in a bag and bring them with you. Others recommend you bring a list of everything you take and the dose. You should also take your insurance cards, names and phone numbers of other doctors you see, and your medical records if the doctor doesn't already have them. Sometimes it is helpful to bring a family member or close friend with you. Let your family member or friend know in advance what you want from your visit. Your companion can remind you what you planned to discuss with the doctor if you forget. She or he can take notes for you and can help you remember what the doctor said. Tell the doctor about your illnesses, operations, medical conditions, and other doctors you see. You may want to ask the doctor to send you a copy of the medical history form before your visit so you can fill it out at home, where you have the time and information you need to complete it. If you have problems understanding how to fill out any of the forms, ask for help. Some community organizations provide this kind of help.

Book an Appointment

EMERGENCY DETAILS

Figure 3.3: Appointment Form

```

<div class="containertop">
  <h1>
     DAILY CARE HOSPITAL </h1> <br>
  </form>
</div>
<nav id="tips">
  <div id="header">
    <div id="header-ul-li">
      <ul id="headerul">
        <li><a href="#">Home</a></li>
        <li><a href="makeappointment.jsp">Make Appoinment</a></li>
        <li><a href="studentlist.jsp">Doctor List</a></li>
        <li><a href="Contact.jsp">Contact Us</a></li>
        <li><a href="test/test.html">About</a>
      </li>
      <a href="www.linkedin.com/in/anower33">  </a>
      <a href="www.twitter.com/MDAnower9"></a>
      <a href="www.facebook.com/anower33"> </a>
    </ul>
</div>
</nav>

<div class="container">
<h2>Book an Appointment </h2> <br>
<form method="post" action="doBookappointmentServlet.do?type=Bookappointment">
    <div class="form-group">
        <input type="text" placeholder="First Name" class="form-controlFN"
id="firstname" name="firstname" >
        <input type="text" placeholder="Last Name" class="form-controlLN"
id="lastname" name="lastname">
    </div>
    <div class="form-group">
        <input type="text" placeholder="Full Address" class="form-controlFA"
id="fulladdress" name="fulladdress">
        <input type="text" placeholder="City Name" class="form-controlCN"
id="cityname" name="cityname">
    </div>
    <div class="form-group">
        <input type="text" placeholder="Your Phone Number" class="form-controlPHN"
id="phnnumber" name="phnnumber">
        <input type="email" placeholder="Your Email Address"
class="form-controlEMAIL" id="email" name="email">
    </div>
    <div class="form-group">
        <input type="Date" value="Birth year-month-day" class="form-controlPHN"
id="dateofbirth" name="dateofbirth">
        <input type="slot" placeholder="Appointment Time" class="form-controlEMAIL"
id="appointmenttime" name="appointmenttime">
    </div>
    <div class="form-group">
<p>EMERGENCY DETAILS</p>
        <input type="text" placeholder="Contact Person" class="form-controlFN"
id="firstname" name="contactperson" >
        <label for="blood">Blood</label>
        <select class="blood" placeholder="blood" id="blood" name="bloodgroup">
            <option >Blood Group</option>
            <option >A+</option>
            <option >B+</option>
            <option >AB+</option>
            <option >AB-</option>
            <option >A-</option>

```

```

        <option >B-</option>
    </select>
    <label for="age">Age</label>
    <select class="age" placeholder="age" id="age" name="age">
        <option >Age</option>
        <option >-18</option>
        <option >18-40</option>
        <option >41-60</option>
        <option >61+</option>
    </select>
</div>
<div class="form-group">
    <label for="gender">Gender</label>
    <select class="gender" placeholder="Gender" id="gender" name="gender">
        <option >gender</option>
        <option >male</option>
        <option >female</option>
        <option >common</option>
    </select>
</div>
<div class="form-group">
    <textarea class="input100" name="specialmessage" placeholder="Special
Message..."></textarea>
    <span class="focus-input100"></span>
</div>
<button type="submit" class="btn btn-primary">Bookappointment</button>
</form>
</div>
<div id="footer">
    <div style="text-align: center;">
        Copyright @ 2019 MD ANOWER
    </div>
</div>
</div>

```

3.3 Doctor List

DCH Health provides a wide range of primary care services for patients of all ages, from infants to seniors. Our doctors, nurses and other health professionals work to keep you healthy with preventive medicine, screenings and education. We treat acute medical problems and also manage ongoing conditions. If you need a specialist, we coordinate your care with our medical center's world-renowned experts. At DCH, we want your primary care clinic to feel like your health care home. We welcome

patients from all walks of life and backgrounds, and we ensure that every patient receives innovative, conscientious and high-quality care. may be the patients need to know the about the doctor before booking appointment , because the patients should know about the doctor from where the is graduated , how is the doctor has experienced etc.

KeyWord:

search

Show 10 entries

Search:

Phone No	Name	Address	Age	Gender	Department
+15823181309	maruf ahmed	chongqing , banan, chongqing , banan	28	male	MBBS
+86253523636	Ashraful	Bangladesh, dhaka	23	male	MBBS
+162323477272	Dr. Neoton	Canada, British Colombia	23	male	cirgiolist
+861238742872	Dr. Sujan	Bagladesh , tangail , modhupur	21	male	MBBS
+861672637273	Dr. MRS Alina	Usa, san francisco	28	female	ginecologist
+861784672625	SM Raihan Rasul	chongqing , banan, chongqing , banan	23	male	cirgiolist
+8617822372563	Dr. Sunny Ahmed	chongqing , banan, chongqing , banan	44	male	ginecologist

Showing 1 to 7 of 7 entries

Previous

1

Next

Figure 3.3: Doctor List

3.4 Contact Us

What a fun example! This contact us page from Marvel allows for user to fill out a simple, general form or segment themselves to find the specific help they need (i.e. sales, press, or support).Next, the real photography used in the location section helps put a face to a brand and provides insight into the company's office culture (employees appearing to be enjoying their job is a plus).There's a lot going well for Tune's contact page: the beautiful design, the calls-to-action, the clearly displayed contact information, and the form below the fold for visitors who want to get in touch with specific inquiries. What I love the most about their page, though, is how welcoming they are. With copy like "We're ready to lead you into the future of mobile marketing" and "Get in touch with us," it makes visitors feel like they're being taken care of. Many business' contact pages are rather cold -- but the more friendly you make your page's copy, the better you'll make your visitors feel. After all, you should *want* them to contact you so you can help them and start building a relationship.

Contact Us
Feel free to drop us a line below!

Full Name:

Email:

Phone:

Message:

Figure 3.4: Contact Us

```
<div class="wrap-contact100">
    <div class="contact100-form-title" style="background-image:
url(images/bg-01.jpg);">
        <span class="contact100-form-title-1">
            Contact Us
        </span>
        <span class="contact100-form-title-2">
            Feel free to drop us a line below!
        </span>
    </div>
    <form class="contact100-form validate-form" method="post"
action="doContactServlet.do?type=Submit" >
```

```

<div class="wrap-input100 validate-input" data-validate="Name is required">
    <span class="label-input100">Full Name:</span>
    <input class="input100" type="text" name="name"
placeholder="Enter full name">
    <span class="focus-input100"></span>
</div>
<div class="wrap-input100 validate-input" data-validate = "Valid
email is required: ex@abc.xyz">
    <span class="label-input100">Email:</span>
    <input class="input100" type="text" name="email"
placeholder="Enter email address">
    <span class="focus-input100"></span>
</div>
<div class="wrap-input100 validate-input" data-validate="Phone is
required"><span class="label-input100">Phone:</span>
    <input class="input100" type="text" name="phone"
placeholder="Enter phone number">
    <span class="focus-input100"></span>
</div>
<div class="wrap-input100 validate-input" data-validate =
"Message is required">
    <span class="label-input100">Message:</span>
    <textarea class="input100" name="message"
placeholder="Your Comment..."></textarea>
    <span class="focus-input100"></span>
</div>
<div class="container-contact100-form-btn">
    <button class="contact100-form-btn">
        <span>Submit

```



```

        <i class="fa fa-long-arrow-right m-l-7"
aria-hidden="true"></i>
    </span></button>
</div>
</form>
</div>


```

3.5 Admin Activity

3.5.1 Admin Manage

3.5.1.1 Admin Login

This is a small project for Hospital Management System. Admin has the power to create user profile and manage all thing for Hospital management. the admin can add one more admin for control the management system . the admin can control the contact information , manage the appointment at the all the admin do anything manage anything in the hospital management. the admin will be responsible for approving appointments and monitor through pending test reports. They will have the most important things to do. As many important things will depend on their action.



The image shows a login form titled "Admin Log-in System for DCH". It features a header with a user icon and the title. Below the header, there are two input fields: "Admin UserName" and "Admin Password". At the bottom left, there is a blue "Login" button. The form is overlaid on a background image of a person in a white lab coat.

```
<body>  
    <div class="container">  
        <h4> <a href="#">Admin Log-in System for DCH</a><br>  
        <form method="post" action="doUserServlet.do?type=login">  
            <div class="form-group">  
                <label for="userName">Admin UserName</label>  
                <input type="text" class="form-control" id="userName"  
name="userName">  
            </div>  
            <div class="form-group">  
                <label for="password">Admin Password</label>  
                <input type="password" class="form-control" id="password"  
name="password">  
            </div>  
            <button type="submit" class="btn btn-primary">Login</button>  
            &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~  
            <!-- <a href="register.jsp">Register</a -->  
        </form></div>  
        <div class="containertop">  
            <h1> <a href="#">DAILY CARE HOSPITAL</a><br>  
            </form>  
        </div>  
        <nav id="tips">  
            <div id="header">  
                <div id="header-ul-li">  
                    <ul id="headerul">  
                        <li><a href="#">Home</a></li>  
                        <li><a href="Bookappointment.jsp">Make Appointment</a></li>  
                        <li><a href="doPublicDrListServlet.do?type=list">Doctor  
List</a></li>  
                        <li><a href="Contact.jsp">Contact Us</a></li>  
                        <li><a href="#">About</a>  
                        </li>  
                        <a href="www.linkedin.com/in/anower33"></a>  
                        <a href="www.twitter.com/MDAanower9"></a>
```

```

        <a href="www.facebook.com/anower33"> </a>
    </ul>
</div>
<nav id="slide-image">
    <script>
        var i = 0; // Start point
        var images = [];
        var time = 2000;
        // Image List
        images[0] = 'images/slide-2.jpg';
        images[1] = 'images/slide-3.jpg';
        images[2] = 'images/slide-4.jpg';
        images[3] = 'images/slide-5.jpg';
        // Change Image
        function changeImg(){
            document.slide.src = images[i];

            if (i < images.length - 1) {
                i++;
            } else {
                i = 0;
            }
            setTimeout("changeImg()", time);
        }
        window.onload = changeImg;
    </script>
    <img id="slide-img-border" name="slide" width="700" height="358">
</nav>
</nav>
<img id="below" src = " images/insteadofslide.png">
<div id="footer">
    <p>
        <a href="https://www.cqut.edu.cn/">CHONGQING UNIVERSITY
OF TECHNOLOGY</a><br>
        Developer: <a href="www.facebook.com/anower33">MD Anower
Hossain( 安昊铭 )</a><br>
        Student ID : 62017010084<br>
        Email : anowercse33@gmail.com<br>
        All credit to Mr: 辉哥
    </p> <pre>
Copyright-2019</pre>
</div> </body>

```

3.5.1.2 Admin List

Administrators, commonly known as Admins or sysops, are Hospital Managements editors who have been granted the technical ability to perform certain special actions on the Daily Care Hospital management system. These include the ability to block and unblock user accounts, edit fully protected pages, protect and unprotect pages from editing, delete and undelete pages, rename pages without restriction, and use certain other tools. Administrators assume these responsibilities as volunteers after undergoing a community review process. They do not act as employees of the Daily Care Hospital management system Foundation. They are never required to use their tools, and must never use them to gain an advantage in a dispute in which they were involved. Administrators should not be confused with the Daily Care Hospital management system.

UserName	Password	RealName	Age	Gender	Operate
anower	123	MD ANower	28	male	edit delete
ashraf	1234	Ashraf kalibary	44	male	edit delete
ashraf2	1234	Ashraf KSP	232	male	edit delete
emon12	1234	MD Emon	22	male	edit delete
hasmat	hasmat123	SH Hasmat	50	male	edit delete
incim	1234	Incim	23	male	edit delete

Figure 3.3: Admin List

```
<nav aria-label="breadcrumb">
  <ol class="breadcrumb">
    <li class="breadcrumb-item"><a href="#">Admin Manage </a></li>
    <li class="breadcrumb-item active" aria-current="page">Admin List</li>
  </ol>
</nav>
```

```

<%ArrayList<model.User>                                userList                                =
(ArrayList<model.User>)request.getAttribute("userList");

%>

<div class="container">

    KeyWord:<input type="text" id="keyword" name="keyword" />

    <button class="btn btn-info" onclick="search();">search</button>

    <button class="btn btn-success" id="add_hw" onclick="add();">add
Admin</button>

</div>

<div class="container">

    <table id="infoTable" class="table table-striped table-bordered
table-condensed table-hover datatable">

        <thead>

            <tr>

                <th scope="col">UserName</th>

                <th scope="col">Password</th>

                <th scope="col">RealName</th>

                <th scope="col">Age</th>

                <th scope="col">Gender</th>

                <th scope="col">Operate</th>

            </tr>

        </thead>

        <tbody>

            <%

                for(int i=0; i<userList.size(); i++){

                    model.User user = userList.get(i);

                %>

                <tr>

                    <td><%=user.getUserName() %></td>

                    <td><%=user.getPassword() %></td>

```

```

        <td><%=user.getRealName() %></td>

        <td><%=user.getAge() %></td>

        <td><%=user.getGender() %></td>

        <td>

            <button            class="btn            btn-xs            btn-info"
onclick="edit('<%=user.getUserName() %>')">edit</button>

            <button            class="btn            btn-xs            btn-danger"
onclick="del('<%=user.getUserName() %>');">delete</button>

        </td>

    </tr>

<%
    }
%>

</tbody>

</table>

</div>

<script type="text/javascript">

    function search(){

        var keyWord = $('#keyword').val();

        window.location.href = "doUserServlet.do?type=search&keyWord=" +
keyWord;

    }

    function del(userName){

        if(confirm("Are you sure to delete the user?")){

            window.location.href =
"doUserServlet.do?type=delete&userName=" + userName;

        }

    }

    function add(){

        window.location.href = "userAdd.jsp";

```

```

    }

    function edit(userName){
        window.location.href = "userEdit.jsp?userName=" + userName;
    }

</script>

```

3.5.1.3 Add Admin

Add admin maybe the hospital management system may have some branch in different area that's why the administrators need one more admin . for opening a new branch the administrator will add a new Admin for the new branch .

This is add user page.

Figure 3.4: Add Admin

```

<nav aria-label="breadcrumb">
    <ol class="breadcrumb">
        <li class="breadcrumb-item"><a href="#">User Manage </a></li>
        <li class="breadcrumb-item" aria-current="page">User List</li>
        <li class="breadcrumb-item active" aria-current="page">Add User</li>
    </ol>
</nav>

```

```

</ol></nav>

<div class="container">

<h2>This is add Admin page.</h2> <br>

<form method="post" action="doUserServlet.do?type=add">

  <div class="form-group">

    <label for="userName">userName</label>

    <input type="text" class="form-control" id="userName"
name="userName" </div>

    <div class="form-group">

      <label for="password">password</label>

      <input type="password" class="form-control" id="password"
name="password" </div>

      <div class="form-group">

        <label for="realName">realName</label>

        <input type="text" class="form-control" id="realName"
name="realName">

      </div>

      <div class="form-group">

        <label for="age">age</label>

        <input type="text" class="form-control" id="age" name="age">

      </div>

      <div class="form-group">

        <label for="gender">gender</label>

        <select class="form-control" id="gender" name="gender">

          <option selected value="male">male</option>

          <option value="female">female</option> </select>

        </div>

      <button type="submit" class="btn btn-primary">Submit</button>

</form>

</div>

```


3.5.1.4 Edit Admin Information

Admin, maybe the hospital management system may have some branch in different area that's why the administrators need one more admin . for opening a new branch the administrator will add a new Admin for the new branch .so already added new admin as a administrators. Now for adding an admin should include some basic information's mistakenly the information's may have wrong . so solve this problem the admin need modify the information's .

This is edit Admin page.

userName

anower

realName

age

gender

male

Submit

Figure 3.5: Edit Admin Information's

<%

```
String userName = request.getParameter("userName");
```

%>

```
<nav aria-label="breadcrumb">
```

```
<ol class="breadcrumb">
```

```
<li class="breadcrumb-item"><a href="#">Admin Manage </a></li>
```

```
<li class="breadcrumb-item" aria-current="page">Admin List</li>
```

```
<li class="breadcrumb-item active" aria-current="page">Edit Admin</li>
```

```
</ol>
```

```

</nav>

<div class="container">

<h2>This is edit Admin page.</h2> <br>

<form method="post" action="doUserServlet.do?type=edit">
  <div class="form-group">
    <label for="userName">userName</label>
    <input type="text" class="form-control" id="userName"
name="userName" value="<%=userName %>" readonly="readonly" >
  </div>
  <div class="form-group">
    <label for="realName">realName</label>
    <input type="text" class="form-control" id="realName"
name="realName">
  </div>
  <div class="form-group">
    <label for="age">age</label>
    <input type="text" class="form-control" id="age" name="age">
  </div>
  <div class="form-group">
    <label for="gender">gender</label>
    <select class="form-control" id="gender" name="gender">
      <option selected value="male">male</option>
      <option value="female">female</option>
    </select>
  </div>
  <button type="submit" class="btn btn-primary">Submit</button>
</form>
</div>

```

3.5.1.5 Delete Admin

Unfortunately any administrators may have broken or don't need anymore keep one admin as a administrators , may be the branch is not active anymore so the admin should removed . for the remove admin the admin use delete option of the admin manage. Prompting delete the admin or user the system will notify you to that you are sure or not , if you really sure delete the admin then pressing enter the admin will be deleted .

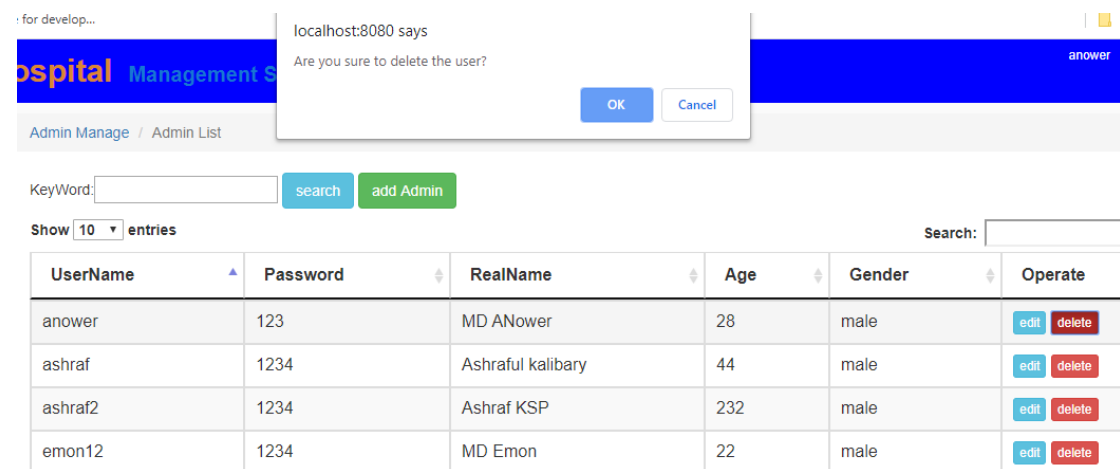


Figure 3.6: Delete Admin

```
<button class="btn btn-xs btn-danger" onclick="del('<%=user.getUserName()
%>');">delete</button>

function del(userName){
    if(confirm("Are you sure to delete the user?")){
        window.location.href =
        "doUserServlet.do?type=delete&userName=" + userName;
    }
}
```

3.5.1.6 Change Admin Password

A password, sometimes called a pass code, is a memorized secret used to confirm the identity of a user, Using the terminology of the NIST Digital Identity Guidelines, the secret is memorized by a party called the *claimant* while the party verifying the identity of the claimant is called the verifier. When the claimant successfully

demonstrates knowledge of the password to the verifier through an established authentication protocol the verifier is able to infer the claimant's identity. In general, a password is an arbitrary string of characters including letters, digits, or other symbols. If the permissible characters are constrained to be numeric, the corresponding secret is sometimes called a personal identification number (PIN).so for the security of the maintenance of the hospital may have to do change the password.

Figure 3.7: Change The password

<%

```
String userName = (String)session.getAttribute("userName");
```

%>

```
<nav aria-label="breadcrumb">
```

```
<ol class="breadcrumb">
```

```
<li class="breadcrumb-item"><a href="#">Admin Manage </a></li>
```

```
<li class="breadcrumb-item active" aria-current="page">Change
```

```
Password</li>
```

```
</ol>
```

```

</nav>

<div class="container">

<h4>This is change password page.</h4> <br>

<form method="post" action="doUserServlet.do?type=changePswPost">
  <div class="form-group">
    <label for="userName">UserName</label>
    <input type="text" class="form-control" id="userName"
name="userName" value="<%=userName %>" readonly="readonly" >
  </div>
  <div class="form-group">
    <label for="oldPassword">Old Password</label>
    <input type="password" class="form-control" id="oldPassword"
name="oldPassword">
  </div>
  <div class="form-group">
    <label for="newPassword">New Password
    </label>
    <input type="password" class="form-control" id="newPassword"
name="newPassword">
  </div>
  <div class="form-group">
    <label for="newPasswordRepeate">Confirm Password
    </label>
    <input type="password" class="form-control"
id="newPasswordRepeate" name="newPasswordRepeate">
  </div>
  <button type="submit" class="btn btn-primary">Submit
  </button>
</form>

</div>

```

3.5.2 Doctor Manage

A doctor's communication and interpersonal skills encompass the ability to gather information in order to facilitate accurate diagnosis, counsel appropriately, give therapeutic instructions, and establish caring relationships with patients.²⁻⁴ These are the core clinical skills in the practice of medicine, with the ultimate goal of achieving the best outcome and patient satisfaction, which are essential for the effective delivery of health care.^{5,6}

3.5.2.1 Doctor List.

3.5.2.1 Doctor List

Doctor list is a common activity in this project , the admin may have need to see the doctor who is active or not , who are available or not the admin can see everything in this list . and also with the list has editing and deleting the doctor . all of the activity for admin .

KeyWord:

search

add Doctor

Show entries

Search:

Phone No	Name	Address	Age	Gender	Department	Operate
+15823181309	maruf ahmed	chongqing , banan, chongqing , banan	28	male	MBBS	<div>edit</div> <div>delete</div>
+86253523636	Ashrafu	Bangladesh , dhaka	23	male	MBBS	<div>edit</div> <div>delete</div>
+162323477272	Dr. Neeton	Canada, British Colombia	23	male	cirgiolist	<div>edit</div> <div>delete</div>
+861238742872	Dr. Sujan	Bagladesh , tangail , modhupur	21	male	MBBS	<div>edit</div> <div>delete</div>
+861672637273	Dr. MRS Alina	Usa, san francisco	28	female	ginecologist	<div>edit</div> <div>delete</div>
+861784672625	SM Raihan Rasul	chongqing , banan, chongqing , banan	23	male	cirgiolist	<div>edit</div> <div>delete</div>
+8617822372563	Dr. Sunny Ahmed	chongqing , banan, chongqing , banan	44	male	ginecologist	<div>edit</div> <div>delete</div>

Showing 1 to 7 of 7 entries

Previous

1

Next

Figure 3.8: Admin Doctor List

<h2> This is the doctor list page.</h2>


```

<nav aria-label="breadcrumb">
<ol class="breadcrumb">
    <li class="breadcrumb-item"><a href="#">Doctor Manage </a></li>
    <li class="breadcrumb-item active" aria-current="page">Doctor List</li>
</ol>
</nav>
<%
    ArrayList<model.Student> studentList =
    (ArrayList<model.Student>)request.getAttribute("studentList");
    %>
<div class="container">
    Keyword:<input type="text" id="keyword" name="keyword" />
    <button class="btn btn-info" onclick="search();">search</button>
    <button class="btn btn-success" id="add_hw" onclick="add();">add
    Doctor</button>
</div>
<div class="container">
    <table id="infoTable" class="table table-striped table-bordered
    table-condensed table-hover datatable">
        <thead>
            <tr>
                <th scope="col">Phone No</th>
                <th scope="col">Name</th>
                <th scope="col">Address</th>
                <th scope="col">Age</th>
                <th scope="col">Gender</th>
                <th scope="col">Department</th>
                <th scope="col">Operate</th>
            </tr>

```

```

</thead>

<tbody>

<%
    for(int i=0; i<studentList.size(); i++){
        model.Student student = studentList.get(i);
    %>

    <tr>

        <td><%=student.getNo() %></td>

        <td><%=student.getName() %></td>

        <td><%=student.getAddress() %></td>

        <td><%=student.getAge() %></td>

        <td><%=student.getGender() %></td>

        <td><%=student.getClassNo() %></td>

        <td>

            <button class="btn btn-xs btn-info"
onclick="edit('<%=student.getNo() %>')">edit</button>

            <button class="btn btn-xs btn-danger"
onclick="del('<%=student.getNo() %>');">delete</button>

        </td>

    </tr>

    <%
        }
    %>

</tbody>

</table>

</div>

```

3.5.2.2 Add Doctor

This is the adding doctor in the Daily care hospital , this feature is a new doctor adding system , maybe the doctor not enough currently , have only some doctor but

the small amount of doctor cant serve all the patients perfectly , so the authority should expand the doctor list . add doctor is the feature of adding doctor .

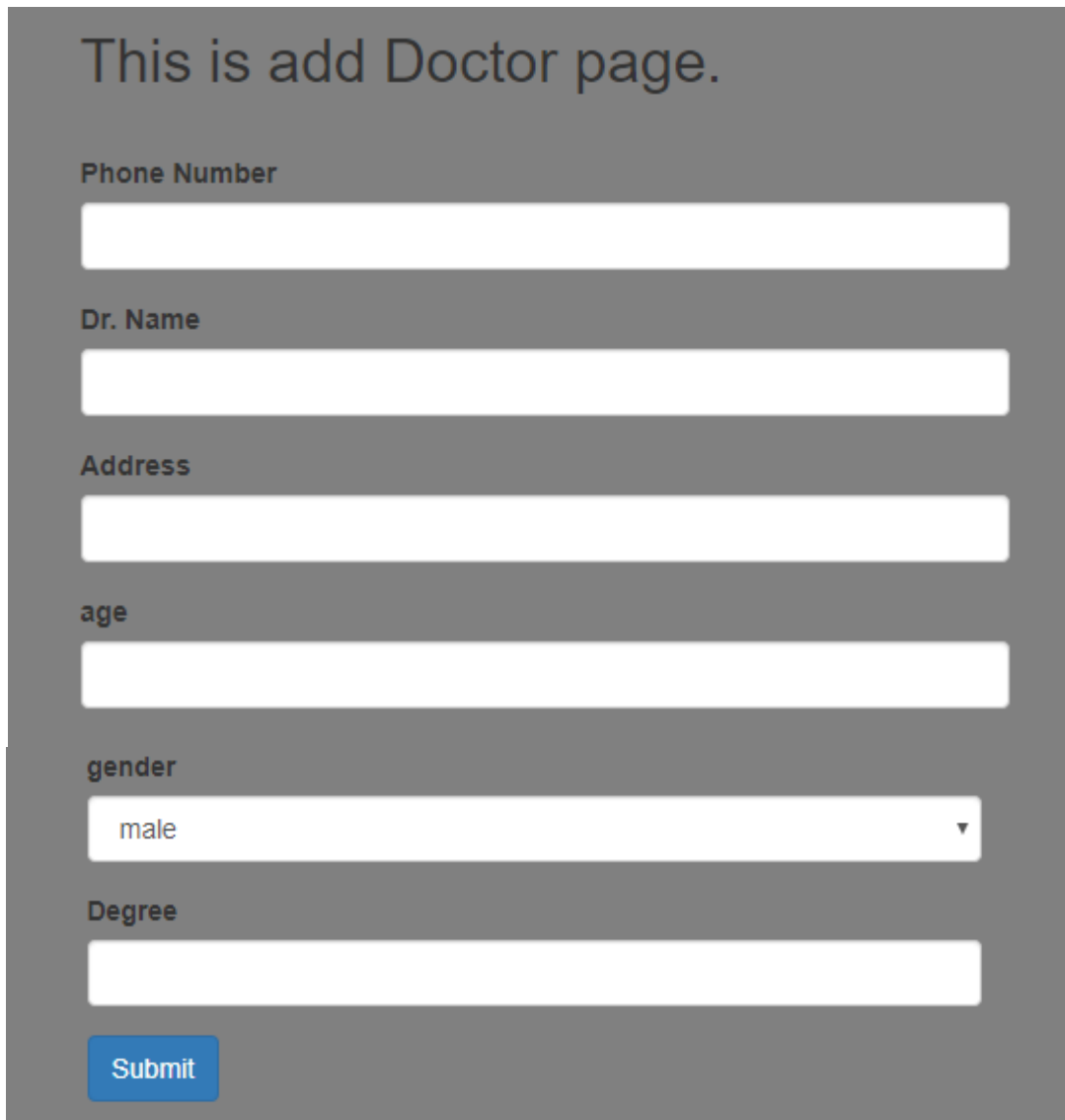


Figure 3.9: Add Doctor

```
<nav aria-label="breadcrumb">
  <ol class="breadcrumb">
    <li class="breadcrumb-item"><a href="#">Doctor Manage </a></li>
    <li class="breadcrumb-item" aria-current="page">Doctor List</li>
    <li class="breadcrumb-item active" aria-current="page">Add Doctor</li>
  </ol>
</nav>
<div class="container">
```

```

<h2>This is add Doctor page.</h2> <br>
<form method="post" action="doStudentServlet.do?type=add">
  <div class="form-group">
    <label for="No">Phone Number</label>
    <input type="text" class="form-control" id="No" name="No" >
  </div>
  <div class="form-group">
    <label for="Name">Dr. Name</label>
    <input type="text" class="form-control" id="Name" name="Name">

  </div>
  <div class="form-group">
    <label for="Address">Address</label>
    <input type="text" class="form-control" id="Address"
name="Address">
  </div>
  <div class="form-group">
    <label for="age">age</label>
    <input type="text" class="form-control" id="age" name="age">
  </div>
  <div class="form-group">
    <label for="gender">gender</label>
    <select class="form-control" id="gender" name="gender">
      <option selected value="male">male</option>
      <option value="female">female</option>
    </select>
  </div>
  <div class="form-group">
    <label for="ClassNo">Degree</label>

```

```

        <input type="text" class="form-control" id="ClassNo"
name="ClassNo">

    </div>

    <button type="submit" class="btn btn-primary">Submit</button>

</form>

</div>

```

3.5.2.3 Edit Doctor

Doctor list , adding doctor all of the including in the doctor manage for the wrong inputted information's about the doctor then the administrators should modify the doctor information's , may be the information's have some wrong like name , id , age etc everything can possible for this editing page .

Figure 3.10: Edit Doctor

```

<button class="btn btn-xs btn-info" onclick="edit('<%=student.getNo()
%>')">edit</button>

function edit(No){
    //window.location.href = "studentEdit.jsp?no=" + No;
    window.location.href = "doStudentServlet.do?type=edit&No=" + No;
}

```

3.5.2.4 Delete Doctor

Unfortunately any Doctor may have broken or don't need anymore keep one Doctor as a doctor service , may be the Doctor is not active anymore so the Doctor should removed . for the remove Doctor the admin use delete option of the Doctor manage. Prompting delete the admin or user the system will notify you to that you are sure or not , if you really sure delete the admin then pressing enter the Doctor will be deleted.

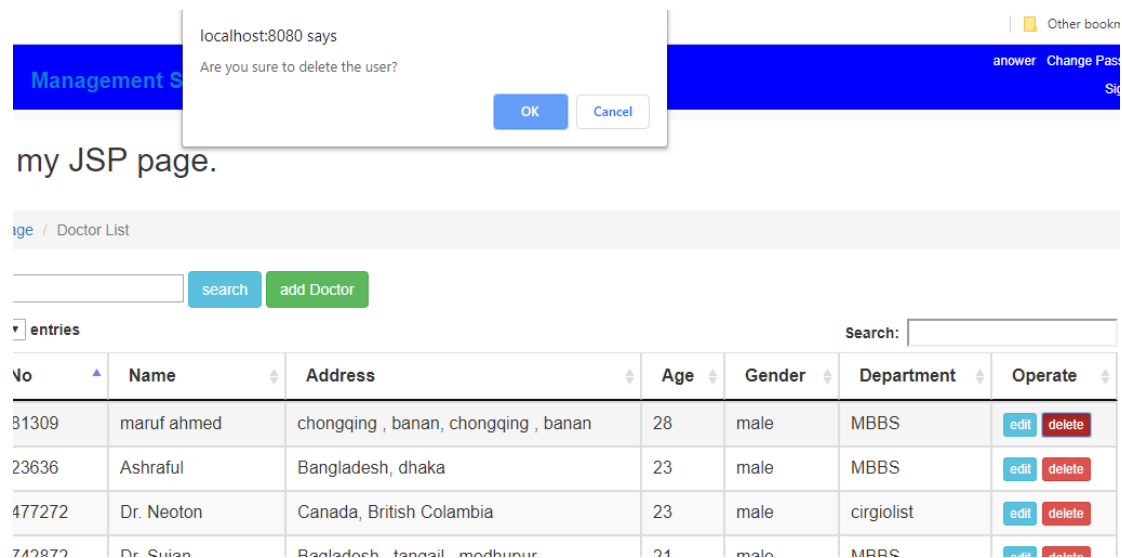


Figure 3.11: Delete Doctor

```
<button class="btn btn-xs btn-danger" onclick="del('<%=student.getNo()
%>');">delete</button>

function del(doctor){
    if(confirm("Are you sure to delete the user?")){
        window.location.href =
"doStudentServlet.do?type=delete&userName=" + doctor;
    }
}
```

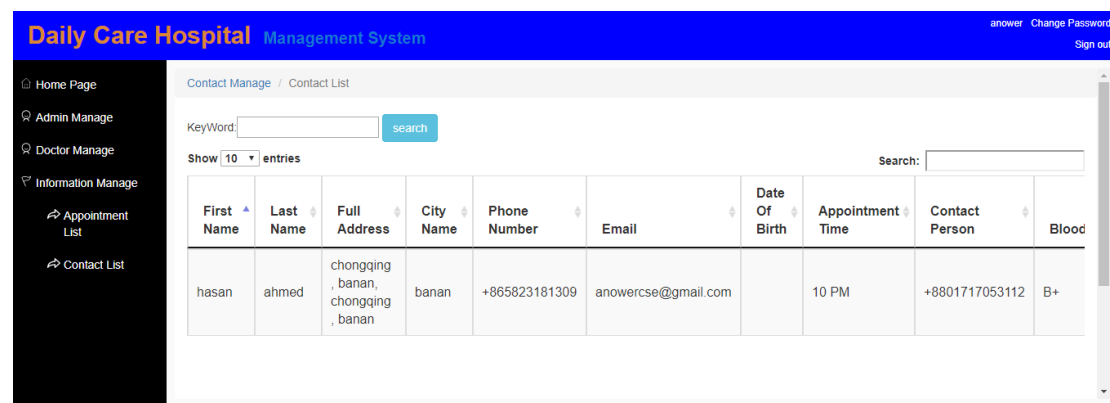
3.5.3 Information Manage

Information, as we know it today, includes both electronic and physical information. The organizational structure must be capable of managing this information throughout the information lifecycle regardless of source or format (data,

paper documents, electronic documents, audio, video, etc.) for delivery through multiple channels that may include cell phones and web interfaces. According to Wikipedia, Information management (IM) is the collection and management of information from one or more sources and the distribution of that information to one or more audiences. This sometimes involves those who have a stake in, or a right to that information. Management means the organization of and control over the structure, processing and delivery of information.

3.5.3.1 Appointment List

The Appointments List page allows you to view all appointments ever, as well as all appointments for a particular patient, for a particular date or for a particular practitioner (if you are in a group practice). To access the Appointments List, click the Schedule tab then Appointments List. You can search and filter columns to find the information you need, and also change the view to suit your preferences. Appointments are automatically listed from latest completed appointments to earliest completed appointments. You can also filter your Appointments List to show only particular records - for example, appointments between particular dates. If your Appointments List is showing only a few of your appointments and not your full appointments list, you have entered a search term in the search field and the Appointments List is showing only those invoices that meet your criteria. Delete the search term and all the appointments appear in your Appointments List.



Daily Care Hospital Management System anower Change Password Sign out

Home Page Admin Manage Doctor Manage Information Manage Appointment List Contact List

Contact Manage / Contact List

KeyWord:

Show 10 entries Search:

First Name	Last Name	Full Address	City Name	Phone Number	Email	Date Of Birth	Appointment Time	Contact Person	Blood
hasan	ahmed	chongqing banan, chongqing banan	banan	+865823181309	anowercse@gmail.com		10 PM	+8801717053112	B+

Figure 3.12: Appointment List

`<nav aria-label="breadcrumb">`

```

<ol class="breadcrumb">
    <li class="breadcrumb-item"><a href="#">Contact Manage</a></li>
    <li class="breadcrumb-item active" aria-current="page">Contact List</li>
</ol>
<nav>
    <%
        ArrayList<Appointment> appointmentlist =
        (ArrayList<Appointment>)request.getAttribute("appointmentlist");
    %>
    <div class="container">
        KeyWord:<input type="text" id="keyword" name="keyword" />
        <button class="btn btn-info" onclick="search();">search</button>
    </div>
    <div class="container">
        <table id="infoTable" class="table table-striped table-bordered
        table-condensed table-hover datatable">
            <thead>
                <tr>
                    <th scope="col">First Name</th>
                    <th scope="col">Last Name</th>
                    <th scope="col">Full Address</th>
                    <th scope="col">City Name</th>
                    <th scope="col">Phone Number</th>
                    <th scope="col">Email</th>
                    <th scope="col">Date Of Birth</th>
                    <th scope="col">Appointment Time</th>
                    <th scope="col">Contact Person</th>
                    <th scope="col">Blood</th>
                    <th scope="col">Age</th>
                    <th scope="col">Gender</th>

```

```

        <th scope="col">Message</th>

        <th scope="col">Operate</th>

    </tr>

</thead>

<tbody>

<%

    for(int i=0; i<appointmentlist.size(); i++){

        model.Appointment appointment = appointmentlist.get(i);

    %>

        <tr>

            <td><%=appointment.getFirstName() %></td>

            <td><%=appointment.getLastName() %></td>

            <td><%=appointment.getFullAddress() %></td>

            <td><%=appointment.getCityName() %></td>

            <td><%=appointment.getPhnNumber() %></td>

            <td><%=appointment.getEmail() %></td>

            <td><%=appointment.getDateOfBirth() %></td>

            <td><%=appointment.getAppointmentTime() %></td>

            <td><%=appointment.getContactPerson() %></td>

            <td><%=appointment.getBloodGroup() %></td>

            <td><%=appointment.getAge() %></td>

            <td><%=appointment.getGender() %></td>

            <td><%=appointment.getSpecialMessage().length() < 20 ?
appointment.getSpecialMessage():appointment.getSpecialMessage().substring(0, 20)
+ "... " %></td>

            <td>

                <button class="btn btn-xs btn-info"
onclick="showMessage('<%=appointment.getFirstName() %>')">detail</button>

                <button class="btn btn-xs btn-danger"
onclick="del('<%=appointment.getFirstName() %>');">delete</button>

            </td>

        </tr>

    }

</tbody>

</table>

```

```

        </tr>

        <%
        }
        %>
    </tbody>
</table>
</div>
<script type="text/javascript">
    function search(){
        var keyWord = $('#keyword').val();
        window.location.href =
"doBookappointmentServlet.do?type=search&keyWord=" + keyWord;
    }
    function showMessage(firstName){
        var keyWord = $('#keyword').val();
        window.location.href =
"doBookappointmentServlet.do?type=showMessage" + firstName;
    }
    function del(firstName){
        if(confirm("Are you sure to delete the appointment?")){
            window.location.href =
"doBookappointmentServlet.do?type=delete&firstName=" + firstName;
        }
    }
</script>

```

3.5.3.1 Contact List

A contact list is a collection of screen names. It is a commonplace feature of instant messaging, Email clients, online communication etc. It has various trademarked and proprietary names in different contexts. The contact list is just a list.

Its window shows screen names that represent actual other people. To communicate with someone on the list, the user can select a name and act upon it, for example open a new E-mail editing session, instant message, or telephone call. In some programs, if your contact list shows someone, their list will show yours.. Some text message clients allow you to change your display name at will while others only allow you to reformat your screen name (Add/remove spaces and capitalize letters). Generally, it makes no difference other than how it's displayed.

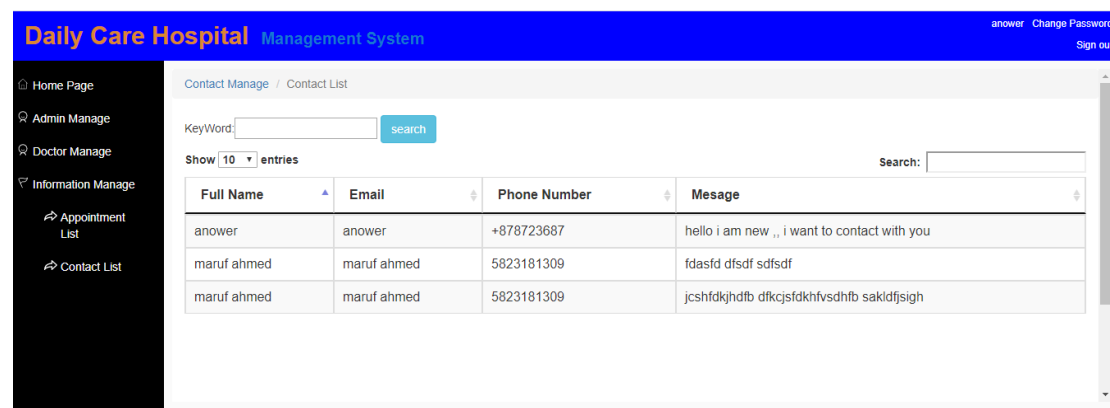


Figure 3.13: Contact List

```
<nav aria-label="breadcrumb">
    <ol class="breadcrumb">
        <li class="breadcrumb-item"><a href="#">Contact Manage</a></li>
        <li class="breadcrumb-item active" aria-current="page">Contact List</li>
    </ol>
</nav>

<%
    ArrayList<Contact> contactlist =
    (ArrayList<Contact>)request.getAttribute("contactList");

    %>

    <div class="container">
        Keyword:<input type="text" id="keyword" name="keyword" />
        <button class="btn btn-info" onclick="search();">search</button>
    </div>

    <div class="container">
```

```

<table id="infoTable" class="table table-striped table-bordered
table-condensed table-hover datatable">

    <thead>

        <tr>

            <th scope="col">Full Name</th>

            <th scope="col">Email</th>

            <th scope="col">Phone Number</th>

            <th scope="col">Mesage</th>

        </tr>

    </thead>

    <tbody>

<%

    for(int i=0; i<contactlist.size(); i++){

        model.Contact contact = contactlist.get(i); %>

        <tr>

            <td><%=contact.getFullName() %></td>

            <td><%=contact.getEmail() %></td>

            <td><%=contact.getPhone() %></td>

            <td><%=contact.getMessage() %></td>

        </tr>

        <% } %>

    </tbody>

</table>

</div>

<script type="text/javascript">

    function search(){

        var keyWord = $('#keyword').val();

        window.location.href = "doContactServlet.do?type=search&keyWord="

+ keyWord;

    }</script>

```

4. Summery

This was an excellent project to work on and I have learned a lot of things to complete this project. A lot of new idea and several problems that may happen to a system like this is quite clear for me now. I am not going to claim that this program offers you 100% functionality. It has mind blowing features but while working I have figured out how we can make this more beneficial for us. I have enjoyed this project and I want to keep working on it to give it a better shape. I believe that I can do make this different in a way that people will love the final output. my creativity makes me different from every other species on this planet. I build tools and machines to make my lives easy and more comfortable. This has begun at a very early age and since then I have never stopped to build or design new things. Due to this creativity my planet has become very something totally different than our ancestors experienced. AI – artificial intelligence is an old concept but My current approach has taken it to a different height. I have been able to build things that has changed the entire thinking process of human civilization. Medical technology has also improved along with other sectors of science. Once people used to die of different diseases but we have overcome those by our advancement in various sectors. We are now able to perform surgery that people could not even think about a decade ago. Automation in medical sector is still quite new but the question is for how long this will remain new. Researches are advancing to perform diagnosis and prescribe medicine for people without a doctor. Of course there are doctors for supervisions. We are building intelligent tools to take things at a new height. This project is a tiny step towards the vast possibilities that science and computers can make to the medical sector. We have different approaches towards new things. Some people jump towards new things while others just sit back. This has been the case for human and it will continue. But new tools are coming every now and then. Science will keep on its journey and so will our human society. I am very proud to be a part of this work and very hopeful that someday this will be the reality of your hospital experience.

5. Reference

- [1] Bryan Basham, Kathy Sierra & Bert Bates. Head First Servlets and JSP[M]. O'Reilly, 2008.
- [2] <https://getbootstrap.com>
- [3] <https://w3schools.com>
- [4] <https://www.eclipse.org/downloads/>
- [5] <https://www.geeksforgeeks.org/introduction-java-servlets/>
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- [8] My Teacher Mr: 辉哥