**HOSPITAL MANAGEMENT SYSTEM**

A Dissertation submitted in

partial fulfillment of the requirement for the award of Degree of

**MASTER IN INFORMATION TECHNOLOGY**

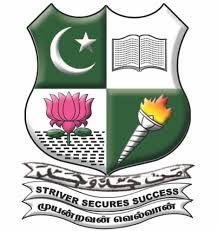
Submitted By

**M. Mathan**

(**Register No**: 31918P19002)

Under the guidance of

Prof. **J. Aamir Azeez** M.Sc., M.Phil.,



A project submitted to

**P.G. Department of Information Technology.**

**Mazharul Uloom College**

**AMBUR – 635802**

**March – 2020**

**ACKNOWLEDGEMENT**

First and Foremost, to thanks my parents whose endless supports and encouraging made my projects a bit lighter.

I would like to thanks **Dr. M. Mohammad Yunus** , M.Sc, Ph.D., the principal of the Mazharul Uloom College, Ambur for kind support to allow projects completion.

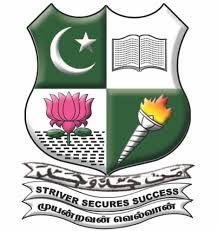
I express a sincere gratitude to **Dr. P. Rizwan Ahmed**, M.C.A., M.Sc., M.A., M.Phil., Ph.D. the Head of the Department of Information Technology, Mazharul Uloom College, Ambur for the endless support and guide to share the valuable ideas in completion of the projects

I would like to thanks **J. Aamir Azeez**, M.sc.,M.Phil., Assocaite Professor of the Department of Information Technology, Mazharul Uloom College, Ambur for their valuable support and guidance at the proper time and encouraging me to choosing a correct projects in recent technology and share their resource and ideas in completion of project.

Last but not least, I would like to thank all of my friends for their valuable support and comments.

**ABSTRACT**

Our project Hospital Management System includes registration of patients, storing their details into the system, and also computerized lab billing . 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 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.



**CERTIFICATE**

This is to certify that the projects titled ” **HOSPITAL MANAGEMENT SYSTEM** ” is Bonafide and work done by

**M. MATHAN**

(Register No: 31918P19002)

In partial fulfilment of the requirement for the award of “ **M.Sc in Information Technology**”.

Signature of the Guide Head of the Department

(Prof. J. Aamir Azeez)

The viva-voce examination of this projects is held on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**External**

1.

2.

**SYNOPSIS**

**SYNOPSIS**

This is the Project **“HOSPITAL MANAGEMENT SYSTEM”** satisfies all the requirements of the user successfully .This project is designed using the JSP as front-end and My SQL as back-end.

Each module has been designed individually to obtain the necessary required output in the desired forms are very user friendly and also easy to handle even by the beginners with very little often the guidance.

Our project covered almost all the requirements .Further requirements and improvement can easily be done since the coding is mainly structured or modular in nature . Changing the existing modules or adding new modules can add improvements.

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**INTRODUCTION**

**Introduction**

The goal of any system development is to develop and implement the system cost effectively user-friendly and most suited to the user’s analysis is the heart of the process. Analysis is the study of the various operations performed by the system and their relationship within and outside of the system. During analysis, data collected on the files, decision points and transaction handled by the present system. Different kinds of tools are used in analysis of which interview is a common one.

The first step in system development life cycle is the identification of need of change to improve or enhance an existing system. An initial investigation on existing system was carried out. The present system of hospital is completely manual. Many problems were identified during the initial study of the existing system.

**MySQL:**

MySQL is the world's most popular open-source database. Despite its powerful features, MySQL is simple to set up and easy to use. MySQL is a powerful relational database application. It targets the desktop category and works for individuals and workgroups manging megatbytes of data. For multi-user access to the same database, access uses file-server architecture ,rather than client-server architecture.MySQL is a fast, easy-to-use RDBMS being used for many small and big businesses. MySQL is developed, marketed and supported by MySQL AB, which is a Swedish company.

MySQL is released under an open-source license. So you have nothing to pay to use it. MySQL is a very powerful program in its own right. It handles a large subset of the functionality of the most expensive and powerful database packages. MySQL uses a standard form of the well-known SQL data language. MySQL works on many operating systems and with many languages including PHP, PERL, C, C++, JAVA, etc.

MySQL works very quickly and works well even with large data sets. MySQL is very friendly to PHP, the most appreciated language for web development. MySQL supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB, but you can increase this (if your operating system can handle it) to a theoretical limit of 8 million terabytes (TB).MySQL is customizable. The open-source GPL license allows programmers to modify the MySQL software to fit their own specific environments.

**Java Server Page (JSP):**

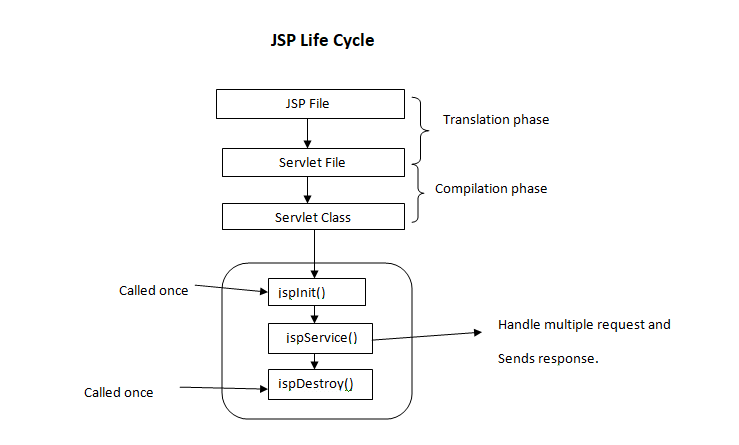
JSP technology is used to create dynamic web applications. JSP pages are easier to maintain then a Servlet. JSP pages are opposite of Servlets as a servlet adds HTML code inside Java code, while JSP adds Java code inside HTML using JSP tags. Everything a Servlet can do, a JSP page can also do it.

JSP enables us to write HTML pages containing tags, inside which we can include powerful Java programs. Using JSP, one can easily separate Presentation and Business logic as a web designer can design and update JSP pages creating the presentation layer and java developer can write server side complex computational code without concerning the web design. And both the layers can easily interact over HTTP requests.

**Life Cycle of JSP:**

A Java Server Page life cycle is defined as the process started with its creation which later translated to a servlet and afterward servlet lifecycle comes into play. This is how the process goes on until its destruction.

JSP pages are converted into Servlet by the Web Container. The Container translates a JSP page into servlet class source(.java) file and then compiles into a Java Servlet class.

****

**Following are the JSP Lifecycle steps:**

1. Translation of JSP to Servlet code.
2. Compilation of Servlet to bytecode.
3. Loading Servlet class.
4. Creating servlet instance.
5. Initialization by calling jspInit() method
6. Request Processing by calling \_jspService() method
7. Destroying by calling jspDestroy() method

**SYSTEM CONFIGURATION**

**Hardware Requirements:**

Processor : Intel dual core processor

RAM : Minimum 2 GB

Monitor : 15” Colour Monitor

Hard disk : Minimum 40 GB

**Software Requirements:**

Operating System : Windows 7, 8, 10

Front-End : JSP Technology

Back-End : MySQL

Scripting : Javascript

Server : Apache Tomcat 7.0

**PROJECT DESCRIPTION**

**Project description**

The purpose of the project entitled as “MUC CLINIC” is to customize the Front office Management of hospital to develop software which user friendly, simple ,fast, and cost-effective It deals with the collection of patient’s information ,diagnosis details, etc. traditionally, it was done manually.

The main function of the system is to register and store patient details retrieve these details as and when required, and also to manipulate these details meaningfully system input contains patient details , diagnosis details ,while system output is to get these details on the screen.

**EXISTING SYSTEM**

**Existing system**

System analysis is a detailed study of the various operations performed by a system and their relationships with and outside of the system. Here the key question is – What all problems exist in the present systems? What must be done to solve the problem? Analysis begins when a user or manager begins a study of the program using existing system.

During analysis , data collected on the various files, decision points and transactions handled by the present system. The commonly used tools in the system are Date Flow Diagram. Interviews, etc. training ,experience and common sense are required for collection of relevant information needed to develop the system. The success of the system depends largely on how clearly the problem is defined , thoroughly investigated and properly carried out through the choice of solution. A good analysis model should provide not only the mechanisms of problem understanding but also the framework of the solution. Then the proposed system should be analyzed thoroughly in accordance with needs.

**System analysis can be categorized into four parts.**

* System planning and initial investigation
* Information gathering.
* Applying analysis tools for structured analysis.
* Feasibility study.

**PROPOSED SYSTEM**

**Proposed system**

The drawback of the existing system is that it is very difficult to retrieve data from case files. It is difficult to handle the whole system manually and it is less accurate and to keep the data in case files for future reference because it may get destroyed. Moreover it is very difficult retrieve data. Redundancy of data may occur and this may occur and this may lead to the inconsistency. The manual system is so time-consuming.

The proposed system is very easy to operate. Speed and accuracy are the main advantages or proposed system. There is no redundancy of data. The data are stored in the computer’s secondary memories like hard disk, etc. it can be easily receive and used at any time. The proposed system will easily handle all the data and work done by the existing system. The proposed systems eliminate the drawbacks of the existing systems. The proposed systems eliminate the drawbacks of the existing system to a great extent and it provides tight security to data.

**DATA FLOW DIAGRAM**

**Context level diagram**

**Dataflow Diagram**

ADMIN

Login

Condition

Admit

Discharge

patient

Doctor

Nurse

Log out

**Database Design**

Table Name: Register

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Constraints** | **Type** | **Size** |
| Admin\_ID |  | Varchar | 10 |
| Admin\_Name |  | Varchar | 25 |
| Username |  | Varchar | 25 |
| Password |  | Varchar | 15 |
| Address |  | Varchar | 40 |
| Mobile |  | Varchar | 15 |

Table Name: Admit

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Constraints** | **Type** | **Size** |
| Patient\_ID |  | Varchar | 10 |
| Patient\_Name |  | Varchar | 25 |
| Gender |  | Varchar | 8 |
| Age |  | Integer | 5 |
| Address |  | Varchar | 40 |
| Mobile |  | Varchar | 15 |
| Admit\_Date |  | Date | 10 |
| Ward\_No |  | Varchar | 6 |
| Complaint |  | Varchar | 100 |

Table name: Discharge

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Constraints** | **Type** | **Size** |
| Patient\_ID |  | Varchar | 10 |
| Patient \_Name |  | Varchar | 25 |
| Gender |  | Varchar | 8 |
| Discharge Date |  | Date | 10 |
| Discharge Status |  | Varchar | 50 |

Table Name : Doctor

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Constraints** | **Type** | **Size** |
| Doctor\_ID |  | Varchar | 10 |
| Doctor\_Name |  | Varchar | 25 |
| Dateofjoin |  | Date | 10 |
| Specialist |  | Varchar | 20 |
| Address |  | Varchar | 40 |
| Contact |  | Varchar | 15 |

Table Name: Nurse

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Constraints** | **Type** | **Size** |
| Nurse\_ID |  | Varchar | 10 |
| Nurse\_Name |  | Varchar | 25 |
| Address |  | Varchar | 40 |
| Contact |  | Varchar | 15 |

Table Name: Billing

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Constraints** | **Type** | **Size** |
| Bill No |  | Varchar | 10 |
| Bill Date |  | Varchar | 15 |
| Patient\_ID |  | Varchar | 10 |
| Patient\_Name |  | Varchar | 25 |
| Admit Date |  | Varchar | 25 |
| Discharge date |  | Varchar | 25 |
| Complaint |  | Varchar | 40 |
| Doctor charges |  | Varchar | 10 |
| Lab Charges |  | Varchar | 10 |
| Medicine charges |  | Varchar | 10 |
| Room Charges |  | Varchar | 10 |
| Other charges |  | Varchar | 10 |
| Total |  | Varchar | 10 |

**System testing**

**Introduction**

Software testing is an investigation conducted t provide stakeholders with information about the quality of the product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risk of software implementation. Test techniques include the process of executing a process of executing a program or application with the intent of finding software bugs(errors or other defects). It involve the execution of a software component or system to evaluate one or more properties of interest.

**Black Box Testing:**

Black Box Testing is a software testing method which is used to test the software without knowing the internal structure of code or program. The main purpose of the Black Box is to check whether the software is working as per expected in requirement document and whether it meet the user expectation or not. Tester only passes valid as well as invalid input and determine the correct expected outputs. All the test using such methods are calculate based on requirement and specification.

**White Box Testing:**

White Box testing is also known as Code based Testing or Structural Testing. White Box testing is the software testing method in which internal structure is being known to tester who is going to test the application. Testing Based on analysis of the internal structure of the component or system. While unit, integration and system levels of the software testing process, it is usually done at the unit level. It can test path with a unit, path between units during integration, between subsystem during a system-level test.

**System Testing:**

System Testing or end-to-end testing is a completely integrated system to verify that it meets its requirement, For Example, a system test involve the testing a logon interface, then creating and editing an entry , plus sending or printing results, followed by summary processing or deletion of entries, then logoff. In addition to , application testing . It ensure that the program , as well as working expected, does not also destroy or partially corrupt its operating environment or cause other processes within that environment to become inoperative or not consuming or locking up excessive resource and parallel process unarmed by its presence.

**Unit Testing:**

Unit testing is software development process that involves synchronized application of a broad spectrum of defect prevention and detection strategies in order to reduce software development risk , time , cost. It is performed by the software developer or engineer during the construction phase of the development cycle, rather the replace the traditional QA focus and it arguments.

**Overview:**

Function test provide systematic demonstration that function tested are available as specified by the business and technical requirements, System documentation and user manuals. Functional testing is centered on the following items.

Valid Input : identified classes of valid input must be accepted.

Invalid Input: identified classed of invalid must be rejected.

Functions: identified functions must be exercised.

Output: identified classes of application output must be exercised.

System/procedure : Interfacing system or procedure must be invoked.

**Source code**

**Index.html:**

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

<style type=*"text/css"*>

\*{

box-sizing:*border box*;

}

*.head* {

background-color: *blue*;

padding:*30px*;

text-align: *center*;

color:*white*;

font-family:*Arial, Helvetica, sans-serif*;

}

*.head* **h1**{

text-transform: *Uppercase*;

font-size: *40px*;

}

*.card*{

width: *350px*;

height: *350px*;

background-color: *#555*;

position:*absolute*;

top:*40%*;

left:*70%*;

text-align:*center*;

tranform: *translate(-50%,-50%)*;

}

*.card* **h1**{

text-align:*center*;

text-transform: *uppercase*;

color:*white*;

}

*.card* **input**[type=text]**,input**[type=password]{

width:*90%*;

padding:*10px 8px*;

margin:*10px*;

font-size: *16px*;

outline:*none*;

border:*none*;

background-color: *#555*;

border-bottom: *2px solid blue*;

color:*white*;

}

*.card* **input**[type=submit]**,input**[type=reset]{

width:*80%*;

padding:*10px*;

margin:*10px*;

font-size:*14px*;

background-color: *#4cf049*;

color:*white*;

border:*none*;

border-radius:*5px*;

}

</style>

</head>

<body>

<div class=*"head"*>

<h1>Hospital Management System</h1>

</div>

<div class=*"card"*>

<form action=*"loginprocess.jsp"* method=*"post"*>

<h1>Login</h1>

<input type=*"text"* name=*"uname"* placeholder=*"Enter your Username "* required>

<input type=*"password"* name=*"pass"* placeholder=*"Enter Your Password"* required>

<input type=*"submit"* value=*"Login"*>

<input type=*"reset"* value=*"Cancel"*>

</form>

<br>

<a style="color:*white*;" href=*"Register.jsp"*>Sign Up Here</a>

</div>

</body>

</html>

**LoginProcess.jsp:**

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@page import=*"java.sql.\*"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%

String uname=request.getParameter("uname");

String pass=request.getParameter("pass");

%>

<%-- Database Connection --%>

<%

Connection con =**null**;

**try**{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hospital","root","");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select \* from Register");

**while**(rs.next()){

**if**(uname.equals(rs.getString(3))&& pass.equals(rs.getString(4))){

session.setAttribute("username", uname);

%>

<jsp:forward page=*"Mainpage.jsp"*></jsp:forward>

<%

}

}

}**catch**(Exception e){

e.printStackTrace();

}

%>

</body>

</html>

Register.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>hospital Management System</title>

</head>

<body>

<%@include file=*"header.html"* %>

<br>

<form action=*"registerprocess.jsp"* method=*"post"*>

<table cellspacing=*"10"* cellpadding=*"10"*>

<tr>

<td>ID : </td><td><input type=*"text"* name=*"adminid"*></td>

</tr>

<tr>

<td>Name :</td><td><input type=*"text"* name=*"adminname"*></td>

</tr>

<tr>

<td>Username : </td><td><input type=*"text"* name=*"uname"*></td>

</tr>

<tr>

<td>Password : </td><td><input type=*"password"* name=*"pass"*></td>

</tr>

<tr>

<td>Address : </td><td><input type=*"text"* name=*"addr"* ></td>

</tr>

<tr>

<td> Mobile : </td><td><input type=*"text"* name=*"mobile"*></td>

</tr>

<tr>

<td></td><td><input type=*"submit"* value=*"Register"*></td><td><input type=*"reset"* Value=*"Cancel"*></td>

</tr>

</table>

</form>

</body>

</html>

Registerprocess.jsp:

<%@ page import=*"java.sql.\*"* %>

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%

String aid=request.getParameter("adminid");

String aname=request.getParameter("adminname");

String uname=request.getParameter("uname");

String pass=request.getParameter("pass");

String address=request.getParameter("addr");

String mobile=request.getParameter("mobile");

**int** status=0;

%>

<%

Connection con =**null**;

**try**{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hospital","root","");

PreparedStatement ps = con.prepareStatement("insert into register(adminid,aname,uname,pass,address,mobile) values(?,?,?,?,?,?)");

ps.setString(1, aid);

ps.setString(2, aname);

ps.setString(3, uname);

ps.setString(4, pass);

ps.setString(5, address);

ps.setString(6, mobile);

status=ps.executeUpdate();

}**catch**(Exception e){

e.printStackTrace();

}

**if**(status>0){

out.println("Record Save Succefully");

response.sendRedirect("Index.html");

}

%>

</body>

</html>

Mainpage.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

<script src=*"https://kit.fontawesome.com/a076d05399.js"*></script>

<style type=*"text/css"*>

*.container*{

display: *flex*;

justify-content:*center*;

}

*.box*{

display:*block*;

float:*left*;

width:*200px*;

height:*60px*;

margin:*25px*;

padding:*20px*;

text-align:*center*;

font-size:*24px*;

background-color: *#0086b3*;

color:*white*;

}

**a***:hover*{

text-decoration: *none*;

}

</style>

</head>

<body>

<%@ include file=*"header.html"* %>

<center><h1>

<%

String username=(String)session.getAttribute("username");

out.println("Welcome "+ username);

session.invalidate();

%>

</h1></center>

<div class=*"container"*>

<div class=*"box"*><i class=*"fab fa-accessible-icon"*></i> <a style="color: *white*;" href=*"admit.jsp"*>Admit</a></div>

<div class=*"box"*><i class=*"fas fa-ambulance"*></i> <a style="color: *white*;" href=*"discharge.jsp"*>Discharge</a></div>

<div class=*"box"*><i class=*"fas fa-user-injured"*></i> <a style="color: *white*;" href=*"searchpat.jsp"*>Search patient</a></div>

</div>

<div class=*"container"*>

<div class=*"box"*><i class=*"fas fa-file-invoice"*></i> <a style="color: *white*;" href=*"billing.jsp"*>Billing</a></div>

<div class=*"box"*><i class=*"fas fa-user-md"*></i> <a style="color: *white*;" href=*"adddoctor.jsp"*>Add Doctor</a></div>

<div class=*"box"*><i class=*"fas fa-user-nurse"*></i> <a style="color: *white*;" href=*"addnurse.jsp"*>Add Nurse</a></div>

</div>

</body>

</html>

Admit.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%@ include file=*"header.html"* %>

<form action=*"admitprocess.jsp"* method=*"post"* id=*"myform"*>

<table cellpadding=*"10"* cellspacing=*"10"*>

<tr>

<td> Patient No:</td><td><input type=*"text"* name=*"pid"*></td>

</tr>

<tr>

<td> Patient Name:</td><td><input type=*"text"* name=*"pname"*></td>

</tr>

<tr>

<td> Gender:</td><td><input type=*"radio"* name=*"gender"* value=*"Male"*>Male</td><td><input type=*"radio"* name=*"gender"* value=*"Female"*>Female</td>

</tr>

<tr>

<td> Age :</td><td><input type=*"text"* name=*"dob"*></td>

</tr>

<tr>

<td> Address :</td><td><textarea rows=*"3"* cols=*"20"* name=*"addr"* form=*"myform"*></textarea> </td>

</tr>

<tr>

<td> Mobile:</td><td><input type=*"text"* name=*"mobile"*></td>

</tr>

<tr>

<td> Admit Date:</td><td><input type=*"text"* name=*"adate"*></td>

</tr>

<tr>

<td> Ward No:</td><td><input type=*"text"* name=*"wno"*></td>

</tr>

<tr>

<td> Complaint:</td><td><textarea rows=*"3"* cols=*"20"* form=*"myform"* name=*"complaint"*></textarea></td>

</tr>

<tr>

<td></td><td><input type=*"submit"* value=*"OK"*></td><td><input type=*"reset"* value=*"Cancel"*>

</tr>

</table>

</form>

<br>

<a href=*"Mainpage.jsp"*><b>Back</b></a>

</body>

</html>

Admitprocess.jsp:

<%@page import=*"java.text.SimpleDateFormat"*%>

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ page import=*"java.sql.\*,java.util.\*"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%

String pid=request.getParameter("pid");

String pname=request.getParameter("pname");

String gender=request.getParameter("gender");

String age1=request.getParameter("dob");

**int** age=Integer.parseInt(age1);

String address=request.getParameter("addr");

String mobile=request.getParameter("mobile");

String admitdate=request.getParameter("adate");

//conver string to date

SimpleDateFormat st=**new** SimpleDateFormat("dd/MM/yyyy");

java.util.Date dt=st.parse(admitdate);

java.sql.Date adate=**new** java.sql.Date(dt.getTime());

String wardno=request.getParameter("wno");

String complaint=request.getParameter("complaint");

%>

<%

Connection con=**null**;

**try**{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hospital","root","");

PreparedStatement ps=con.prepareStatement("insert into admit(pid,pname,gender,age,address,mobile,adate,wardno,complaint)values(?,?,?,?,?,?,?,?,?)");

ps.setString(1, pid);

ps.setString(2, pname);

ps.setString(3, gender);

ps.setInt(4, age);

ps.setString(5, address);

ps.setString(6, mobile);

ps.setDate(7, adate);

ps.setString(8, wardno);

ps.setString(9, complaint);

**int** status=ps.executeUpdate();

**if**(status>0){

%>

<script type=*"text/javascript"*>

window.alert("Record Save Succefully");

</script>

<% response.sendRedirect("admit.jsp");

}

}**catch**(Exception e){

e.printStackTrace();

}

%>

</body>

</html>

Discharge.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%@ include file=*"header.html"* %>

<form action=*"dischargeprocess.jsp"* method=*"post"* id=*"frm1"*>

<table cellpadding=*"10"* cellspacing=*"10"*>

<tr>

<td>patient ID: </td><td><input type=*"text"* name=*"pid"*></td>

</tr>

<tr>

<td>patient Name: </td><td><input type=*"text"* name=*"pname"*></td>

</tr>

<tr>

<td>Gender: </td><td><input type=*"radio"* name=*"gender"* value=*"Male"*>Male</td><td><input type=*"radio"* name=*"gender"* value=*"Female"*>Female</td>

</tr>

<tr>

<td>discharge date: </td><td><input type=*"text"* name=*"ddate"*></td>

</tr>

<tr>

<td>discharge status: </td><td><textarea rows=*"3"* cols=*"20"* name=*"disstatus"* form=*"frm1"*></textarea></td>

</tr>

<tr>

<td></td><td><input type=*"submit"* value=*"OK"*><td><input type=*"reset"* value=*"cancel"*></td>

</tr>

</table>

</form>

<br>

<a href=*"Mainpage.jsp"*><b>Back</b></a>

</body>

</html>

DischargeProcess.jsp:

<%@page import=*"java.text.SimpleDateFormat"*%>

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ page import=*"java.sql.\*,java.util.\*"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%

String pid=request.getParameter("pid");

String pname=request.getParameter("pname");

String gender=request.getParameter("gender");

String disdate=request.getParameter("ddate");

//convert string to date

SimpleDateFormat st=**new** SimpleDateFormat("dd/MM/yyyy");

java.util.Date dt= st.parse(disdate);

java.sql.Date ddate=**new** java.sql.Date(dt.getTime());

String disstatus=request.getParameter("disstatus");

%>

<%

Connection con=**null**;

**try**{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hospital","root","");

PreparedStatement ps=con.prepareStatement("insert into discharge(pid,pname,gender,ddate,disstatus)values(?,?,?,?,?)");

ps.setString(1, pid);

ps.setString(2, pname);

ps.setString(3, gender);

ps.setDate(4, ddate);

ps.setString(5, disstatus);

**int** status=ps.executeUpdate();

**if**(status>0){

%>

<script type=*"text/javascript"*>

window.alert("Record Save Succefully");

</script>

<% response.sendRedirect("discharge.jsp");

}

}**catch**(Exception e){

e.printStackTrace();

}

%>

</body>

</html>

Searchpatient.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%@ include file=*"header.html"* %>

<center>

<br>

<form action=*"searchprocess.jsp"* method=*"post"*>

<label style="margin:*20px*;">Patient ID: </label><input style="margin:*20px*;" type=*"text"* name=*"pid"*><br>

<input type=*"submit"* value=*"Search"*>&nbsp;&nbsp;<input type=*"reset"* value=*"Cancel"*>

</form>

<br><br>

<a href=*"Mainpage.jsp"*><b>Back</b></a>

</center>

</body>

</html>

Searchpatientprocess.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ page import=*"java.sql.\*"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%

String pro=request.getParameter("pid");

Connection con=**null**;

ResultSet rs=**null**;

String pid,pname,gender,Mobile,ward,compliant;

**int** age;

Date admit;

**try**{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hospital","root","");

Statement st=con.createStatement();

rs=st.executeQuery("select \* from admit where pid = '"+ pro +"' ");

**while**(rs.next()){

pid=rs.getString(1);

pname=rs.getString(2);

gender=rs.getString(3);

age=rs.getInt(4);

Mobile=rs.getString(6);

admit=rs.getDate(7);

ward=rs.getString(8);

compliant=rs.getString(9);

%>

<center>

<h1>Patient Information</h1><br>

<table cellpadding=*"5"* cellspacing=*"5"* border=*"2"*>

<tr><td>Patient ID:</td><td><%=pid %></td></tr>

<tr><td>Patient Name:</td><td><%=pname %></td></tr>

<tr><td>Gender :</td><td><%=gender %></td></tr>

<tr><td>Age :</td><td><%=age %></td></tr>

<tr><td>Mobile :</td><td><%=Mobile %></td></tr>

<tr><td>Admit Date:</td><td><%=admit %></td></tr>

<tr><td>Ward No:</td><td><%=ward %></td></tr>

<tr><td>Complaint:</td><td><%=compliant %></td></tr>

</table></center>

<%

}

}**catch**(Exception e){

e.printStackTrace();

}

%>

<br>

<a href=*"searchpat.jsp"*><b>BACK</b></a>

</body>

</html>

Adddoctor.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%@ include file=*"header.html"* %>

<form action=*"adddoctorprocess.jsp"* method=*"post"*>

<table cellpadding=*"10"* cellspacing=*"10"*>

<tr>

<td>Doctor ID:</td><td><input type=*"text"* name=*"did"*></td>

</tr>

<tr>

<td>Doctor Name: </td><td><input type=*"text"* name=*"dname"*></td>

</tr>

<tr>

<td>Date of Joining: </td><td><input type=*"text"* name=*"doj"*></td>

</tr>

<tr>

<td> Specialist:</td><td><input type=*"text"* name=*"spec"*></td>

</tr>

<tr>

<td>Doctor Address: </td><td><input type=*"text"* name=*"dadd"*></td>

</tr>

<tr>

<td>Doctor contact: </td><td><input type=*"text"* name=*"dcont"*></td>

</tr>

<tr>

<td><input type=*"submit"* value=*"Submit"*> </td><td><input type=*"reset"* name=*"Cancel"*></td>

</tr>

</table>

</form>

<br>

<a href=*"Mainpage.jsp"*><b>Back</b></a>

</body>

</html>

Adddoctorprocess.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ page import=*"java.sql.\*,java.util.\*,java.text.\*"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%

String did=request.getParameter("did");

String dname=request.getParameter("dname");

String doj=request.getParameter("doj");

//convert string to date

SimpleDateFormat st=**new** SimpleDateFormat("dd/MM/yyyy");

java.util.Date dt= st.parse(doj);

java.sql.Date dofj=**new** java.sql.Date(dt.getTime());

String specialist=request.getParameter("spec");

String daddress=request.getParameter("dadd");

String dcontact=request.getParameter("dcont");

%>

<%

Connection con=**null**;

**try**{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hospital","root","");

PreparedStatement ps=con.prepareStatement("insert into doctor(did,dname,dateofjoin,specialist,daddress,dcontact)values(?,?,?,?,?,?)");

ps.setString(1, did);

ps.setString(2, dname);

ps.setDate(3, dofj);

ps.setString(4, specialist);

ps.setString(5, daddress);

ps.setString(6, dcontact);

**int** status=ps.executeUpdate();

**if**(status>0){

%>

<script type=*"text/javascript"*>

window.alert("Record Save Succefully");

</script>

<%

response.sendRedirect("adddoctor.jsp");

}

}**catch**(Exception e){

e.printStackTrace();

}

%>

</body>

</html>

Addnurse.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>hospital Management System</title>

</head>

<body>

<%@ include file=*"header.html"* %>

<form action=*"addnurseprocess.jsp"* method=*"post"*>

<table cellpadding=*"10"* cellspacing=*"10"*>

<tr>

<td>Nurse ID:</td><td><input type=*"text"* name=*"nid"*/></td>

</tr>

<tr>

<td>Nurse name:</td><td><input type=*"text"* name=*"nname"*/></td>

</tr>

<tr>

<td>Nurse address:</td><td><input type=*"text"* name=*"naddress"*/></td>

</tr>

<tr>

<td>Nurse contact:</td><td><input type=*"text"* name=*"ncontact"*/></td>

</tr>

<tr>

<td><input type=*"submit"* value=*"Submit"*/></td><td><input type=*"reset"* name=*"Cancel"*/></td>

</tr>

</table>

</form>

<br>

<a href=*"Mainpage.jsp"*><b>Back</b></a>

</body>

</html>

Addnurseprocess.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ page import=*"java.sql.\*,java.util.\*,java.text.\*"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%

String nid=request.getParameter("nid");

String nname=request.getParameter("nname");

String naddress=request.getParameter("naddress");

String ncontact=request.getParameter("ncontact");

%>

<%

Connection con=**null**;

**try**{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hospital","root","");

PreparedStatement ps=con.prepareStatement("insert into nurse(nid,nname,address,contact)values(?,?,?,?)");

ps.setString(1, nid);

ps.setString(2, nname);

ps.setString(3, naddress);

ps.setString(4, ncontact);

**int** status=ps.executeUpdate();

**if**(status>0){

%>

<script type=*"text/javascript"*>

window.alert("Record Save Succefully");

</script>

<% response.sendRedirect("addnurse.jsp");

}

}**catch**(Exception e){

e.printStackTrace();

}

%>

</body>

</html>

Billing.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Management System</title>

</head>

<body>

<%@ include file=*"header.html"* %>

<script type=*"text/javascript"*>

**function** myfunction(){

**var** total;

**var** doc=document.getElementsByName("Dcharges").value;

**var** Lab=document.getElementsByName("Lcharges").value;

**var** med=document.getElementsByName("Mcharges").value;

**var** room=document.getElementsByName("Rcharges").value;

**var** other=document.getElementsByName("Ocharges").value;

total=doc+Lab+med+room+other;

document.getElementById("tot").value=total;

}

</script>

<form action=*"billingprocess.jsp"* method=*"post"* id=*"frm2"*>

<table cellpadding=*"10"* cellspacing=*"10"*>

<tr>

<td>Bill No:</td><td><input type=*"text"* name=*"billno"*></td>

</tr>

<tr>

<td>Bill Date:</td><td><input type=*"text"* name=*"billdate"*></td>

</tr>

<tr>

<td>patient ID:</td><td><input type=*"text"* name=*"pid"*></td>

</tr>

<tr>

<td>patient Name:</td><td><input type=*"text"* name=*"pname"*></td>

</tr>

<tr>

<td>Admit date:</td><td><input type=*"text"* name=*"adate"*></td>

</tr>

<tr>

<td>Discharge Date:</td><td><input type=*"text"* name=*"ddate"*></td>

</tr>

<tr>

<td>complaint description :</td><td><textarea rows=*"3"* cols=*"20"* name=*"complaint"* form=*"frm2"*></textarea></td>

</tr>

<tr>

<td> Doctor Fees:</td><td><input type=*"text"* name=*"Dcharges"*></td>

</tr>

<tr>

<td>Lab Charges:</td><td><input type=*"text"* name=*"Lcharges"*></td>

</tr>

<tr>

<td> Medicine Charges:</td><td><input type=*"text"* name=*"Mcharges"* ></td>

</tr>

<tr>

<td>Room Charges:</td><td><input type=*"text"* name=*"Rcharges"*></td>

</tr>

<tr>

<td>Other Charges:</td><td><input type=*"text"* name=*"Ocharges"*></td>

</tr>

<tr>

<td>Total Amount:</td><td><input type=*"text"* name=*"amount"* id=*"tot"* onfocus="myfunction()"></td>

</tr>

<tr>

<td><input type=*"submit"* value=*"Submit"*/></td><td><input type=*"Reset"* value=*"Cancel"*/></td>

</tr>

</table>

</form>

<a href=*"Mainpage.jsp"*><b>BACK</b></a>

</body>

</html>

Billing process.jsp:

<%@ page language=*"java"* contentType=*"text/html; charset=ISO-8859-1"*

pageEncoding=*"ISO-8859-1"*%>

<%@ page import=*"java.sql.\*,java.util.\*"* %>

<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<html>

<head>

<meta http-equiv=*"Content-Type"* content=*"text/html; charset=ISO-8859-1"*>

<title>Hospital Mangement System</title>

</head>

<body>

<%

String billno=request.getParameter("billno");

String billdate=request.getParameter("billdate");

String pid=request.getParameter("pid");

String pname=request.getParameter("pname");

String admit=request.getParameter("adate");

String discharge=request.getParameter("ddate");

String complaint=request.getParameter("complaint");

String docfee=request.getParameter("Dcharges");

String labfee=request.getParameter("Lcharges");

String medicine=request.getParameter("Mcharges");

String room=request.getParameter("Rcharges");

String other=request.getParameter("Ocharges");

String total=request.getParameter("amount");

%>

<%

Connection con=**null**;

**try**{

Class.forName("com.mysql.jdbc.Driver");

con=DriverManager.getConnection("jdbc:mysql://localhost:3306/hospital","root","");

PreparedStatement ps=con.prepareStatement("insert into billing(billno,bdate,pid,pname,adate,ddate,complaint,doctor,Lab,medicine,room,other,total)values(?,?,?,?,?,?,?,?,?,?,?,?,?)");

ps.setString(1, billno);

ps.setString(2, billdate);

ps.setString(3, pid);

ps.setString(4, pname);

ps.setString(5, admit);

ps.setString(6, discharge);

ps.setString(7, complaint);

ps.setString(8, docfee);

ps.setString(9, labfee);

ps.setString(10, medicine);

ps.setString(11, room);

ps.setString(12, other);

ps.setString(13, total);

**int** status=ps.executeUpdate();

**if**(status>0){

%>

<script type=*"text/javascript"*>

window.alert("Record Save Succefully");

</script>

<center><h2>Hospital Management System</h2>

<table cellpadding=*"5"* cellspacing=*"5"*>

<tr>

<td><label style="font:*16px*;">Bill No :</label></td><td><label ><b><%=billno%></b></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Bill Date :</label></td><td><label><%=billdate%></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Patient ID :</label></td><td><label><%=pid%></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Patient Name :</label></td><td><label><%=pname%></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Admit Date :</label></td><td><label><%=admit%></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Discharge Date :</label></td><td><label><%=discharge%></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Complaint :</label></td><td><label><%=complaint%></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Doctor Fees :</label></td><td><label><%=docfee%></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Lab Fees :</label></td><td><label><%=labfee%></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Medicine Charges :</label></td><td><label><%=medicine%></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Room Charges :</label></td><td><label><%=room%></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Other Charges :</label></td><td><label><%=other%></label></td>

</tr>

<tr>

<td><label style="font:*16px*;">Total Amount :</label></td><td><label><%=total%></label></td>

</tr>

<tr>

<td><button style="padding: *5px*;" onclick="window.print()">Print</button></td><td><button style="padding:*5px*;" onclick="location.href='billing.jsp'">Back</button></td>

</tr>

</table>

</center>

<%

}

}**catch**(Exception e){

e.printStackTrace();

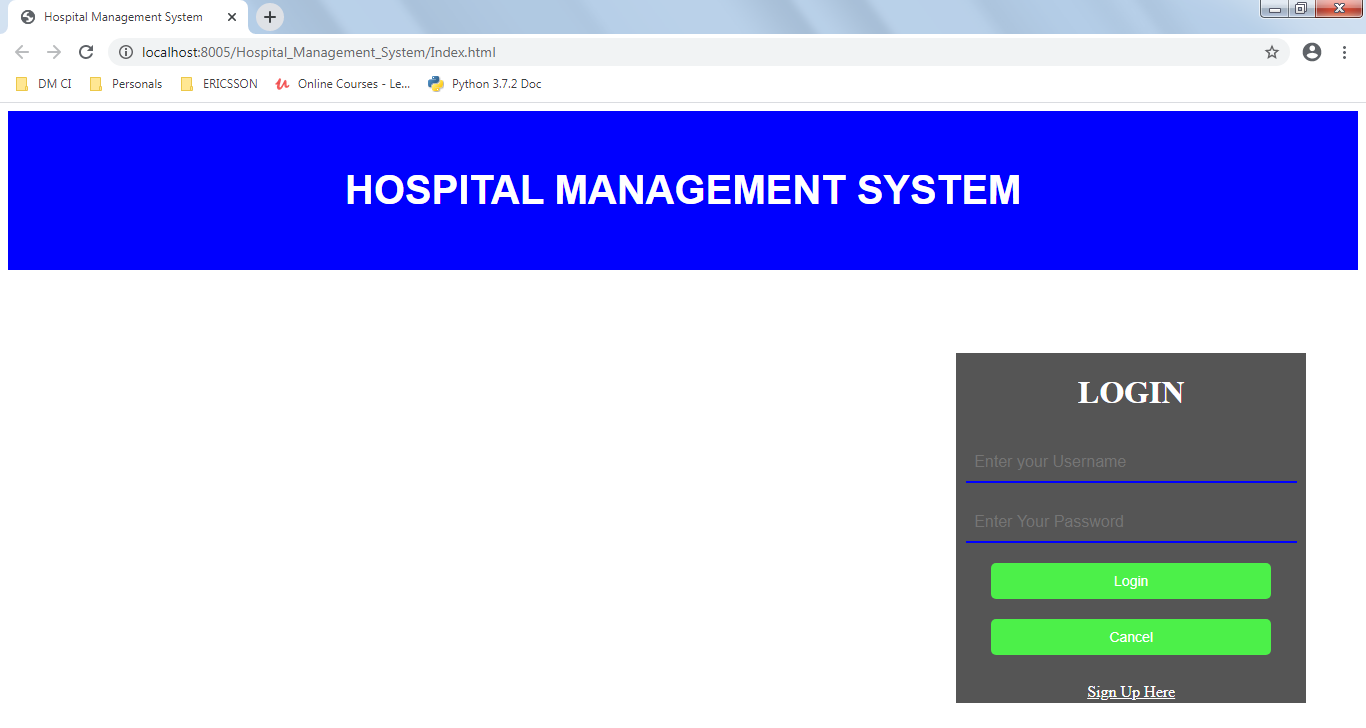
}

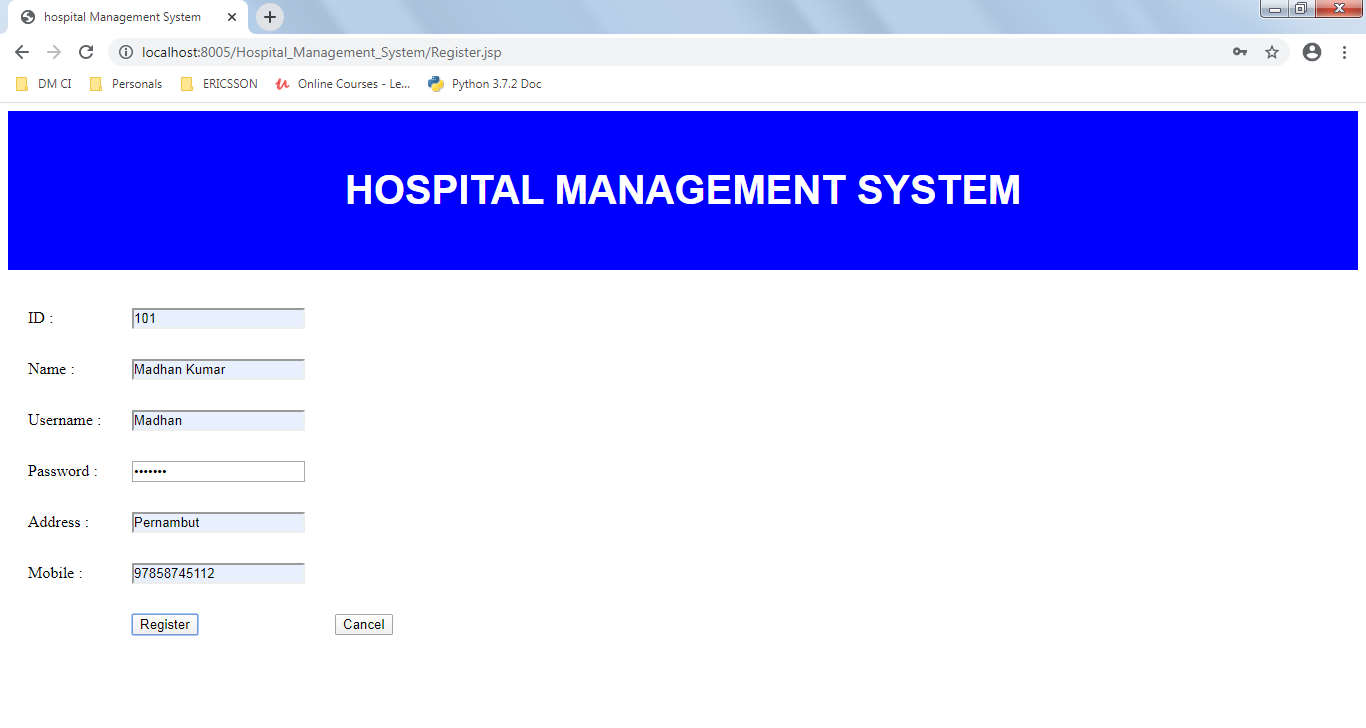
%>

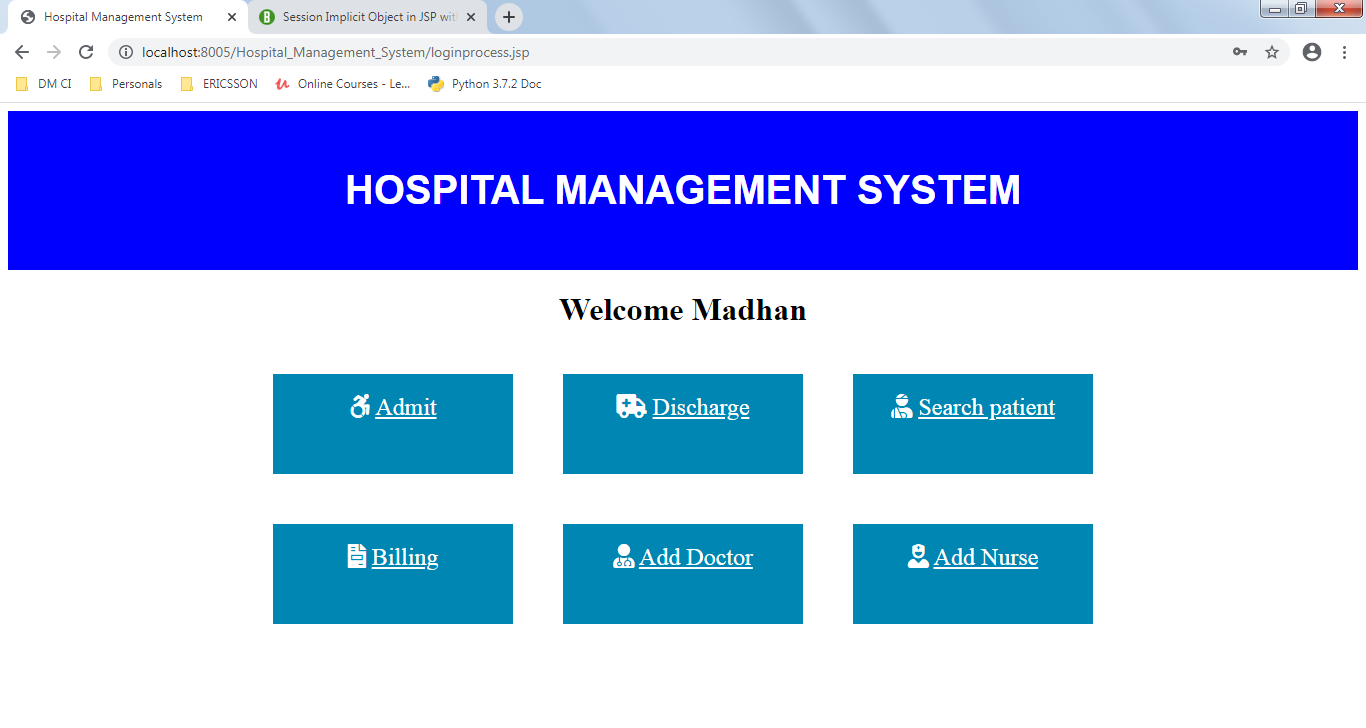
</body>

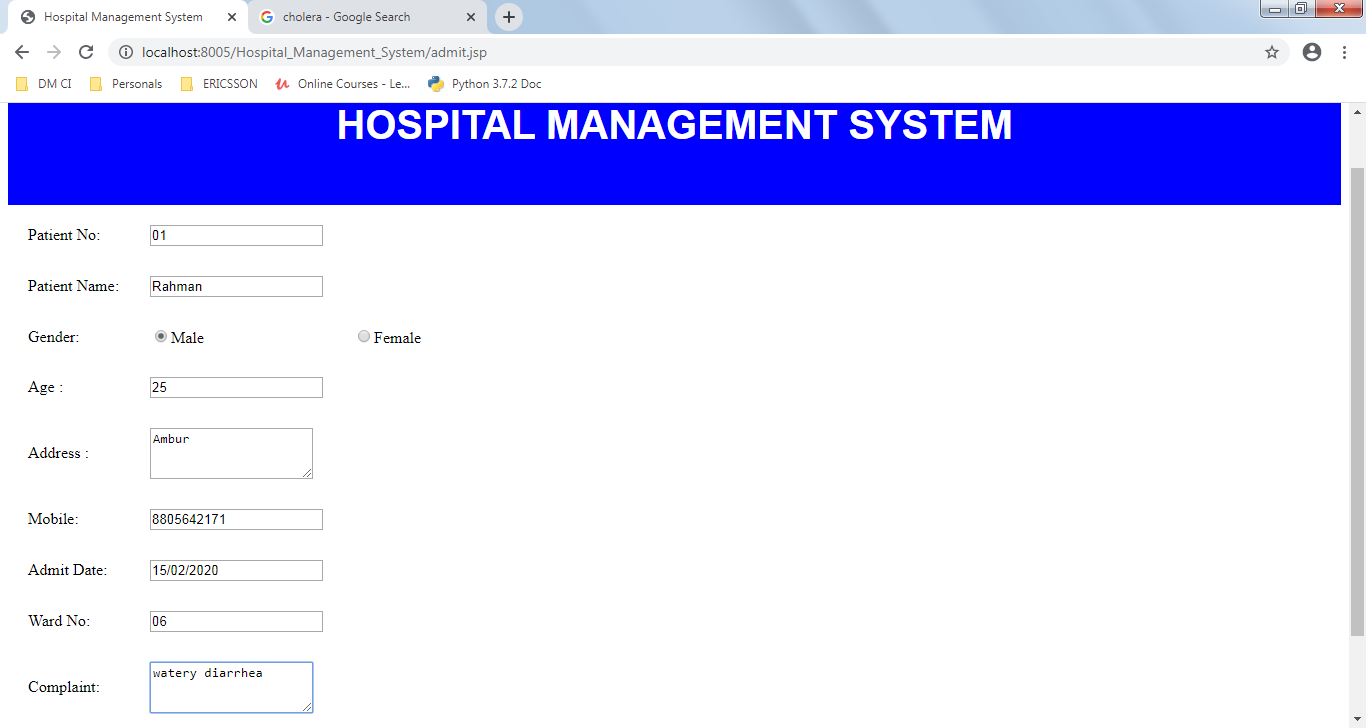
</html>

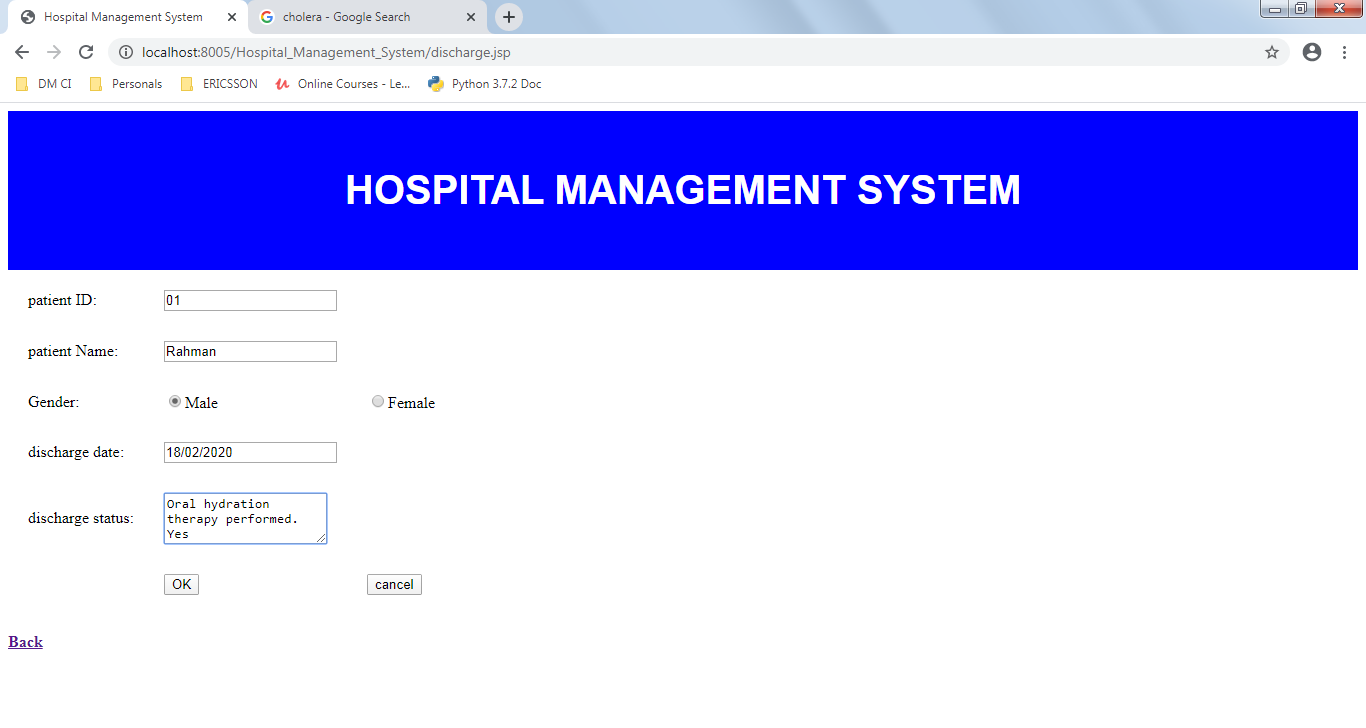
**Screen shot**

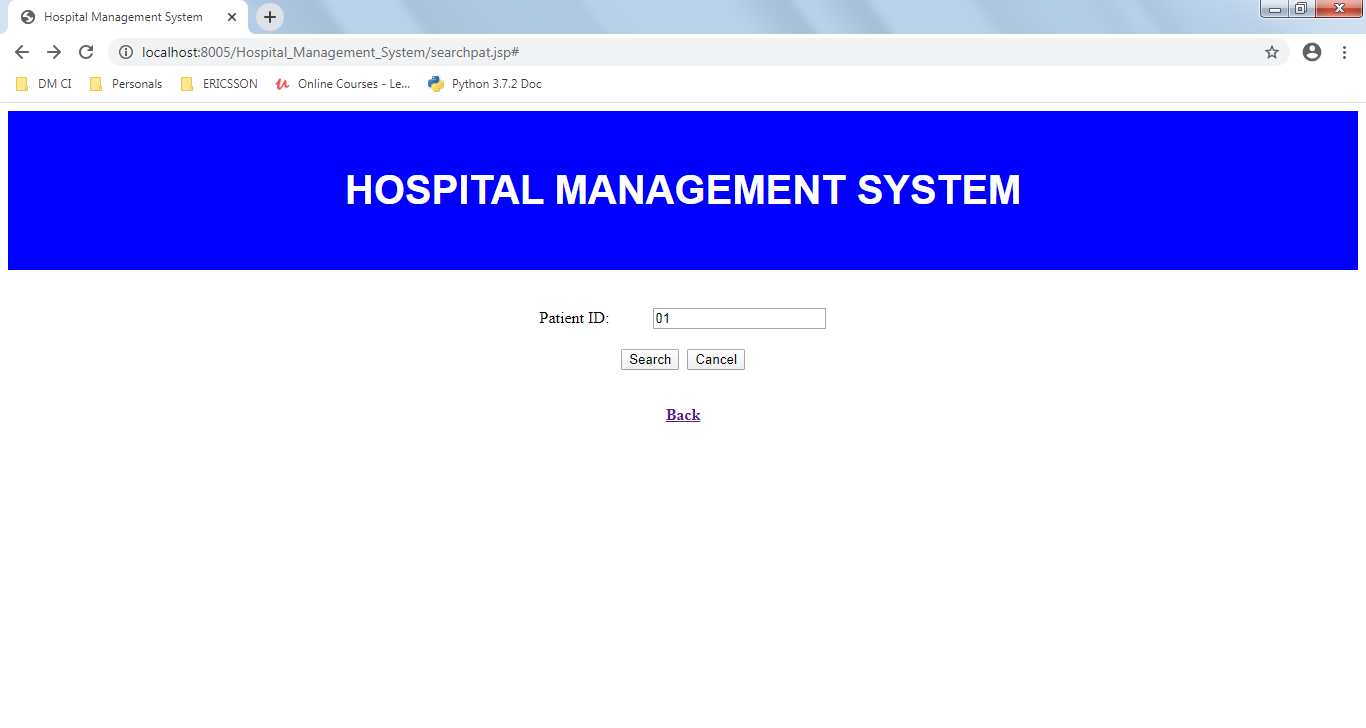


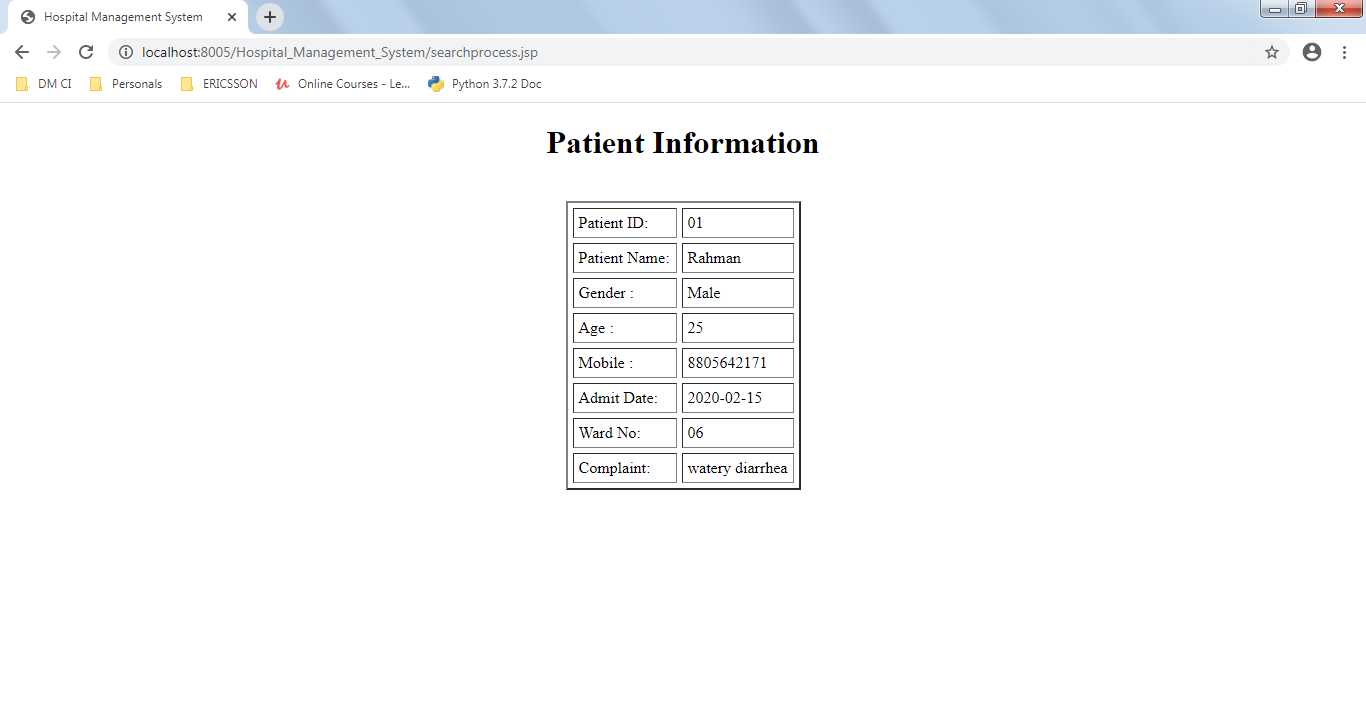


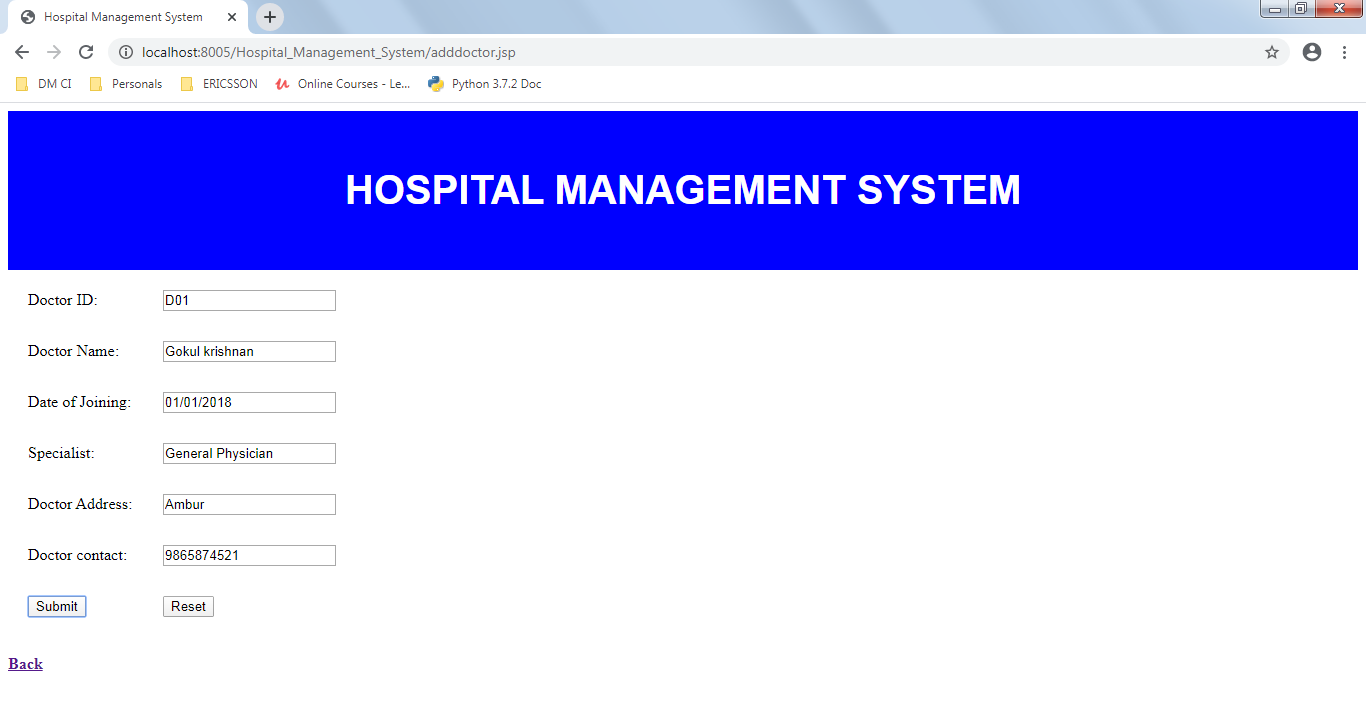


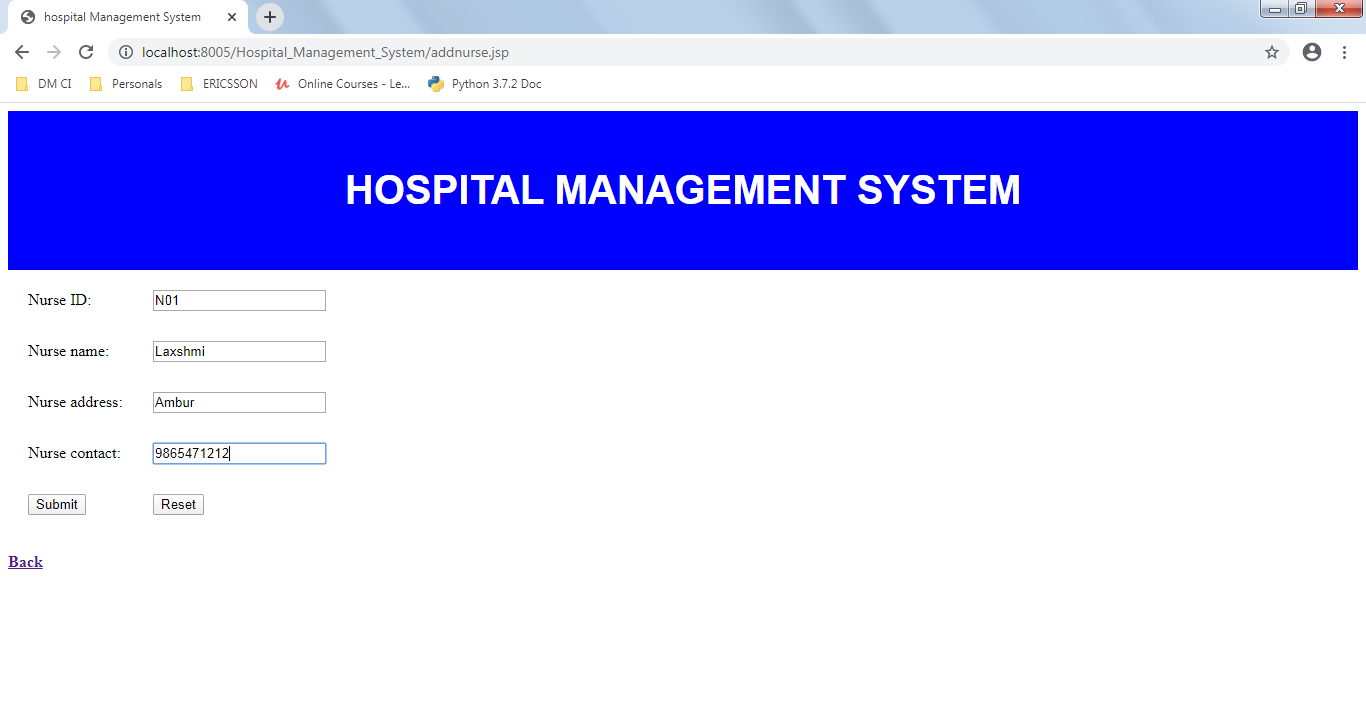


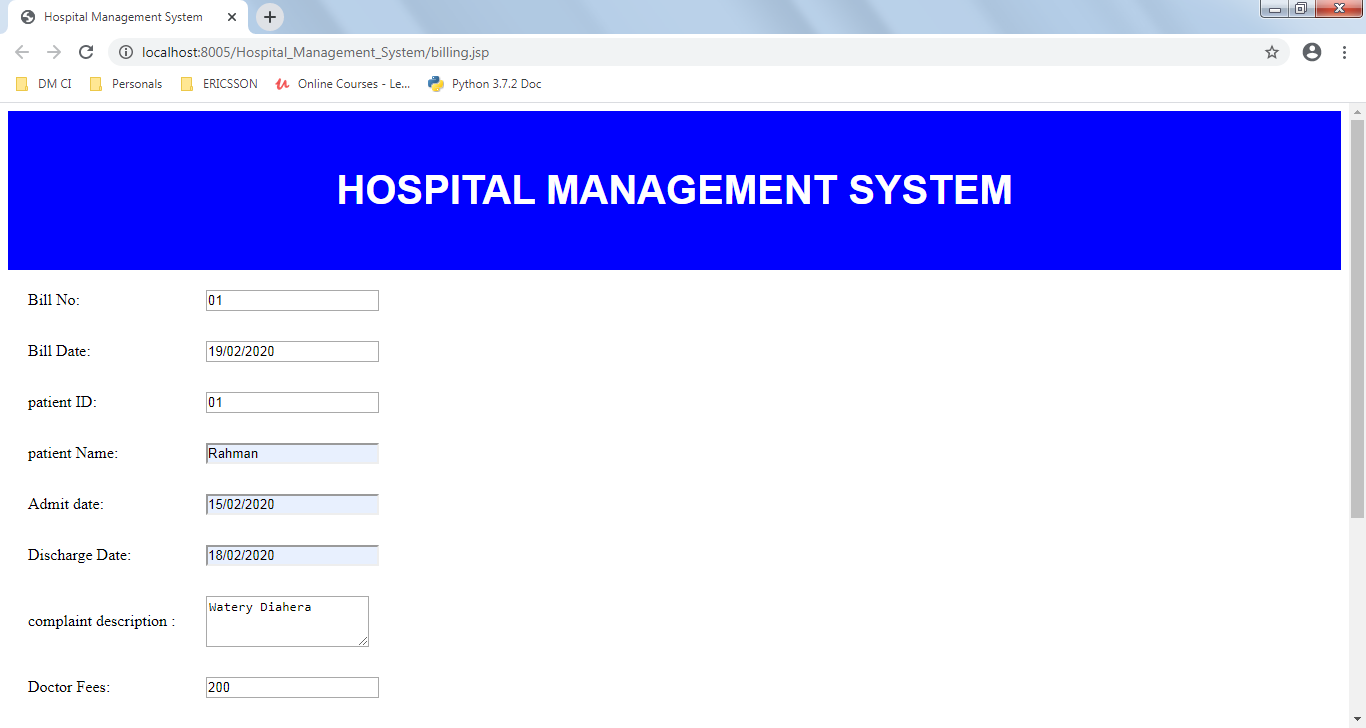


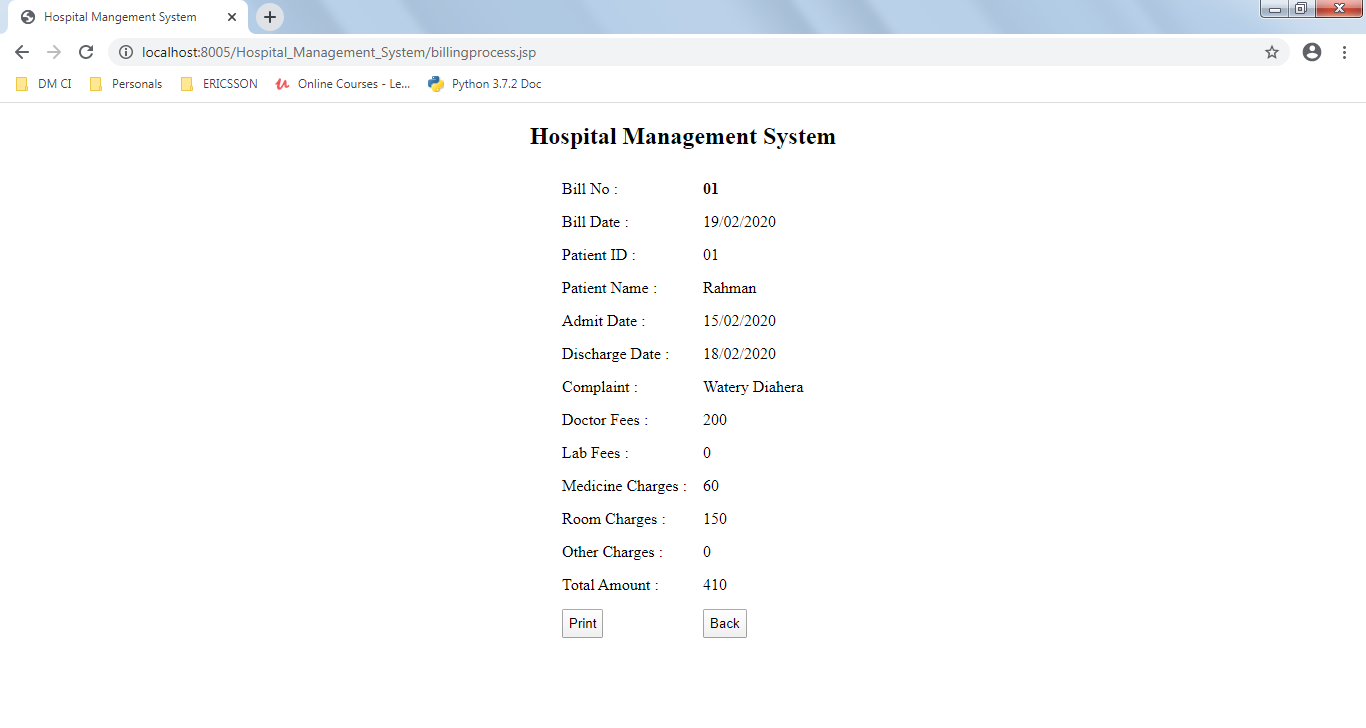












**conclusion**

This Projects ”Hospital Management System” has been developed to provide and overcome the problem faced by the present system.The developed package was found to work out the operation in the present system. The developed package was found to work out the operation effectively. The objective was to reduce inconsistency, limiting redundancy , accessing data within less time to be achieved. It is user friendly, fast, secure and optimized. It helps to manage and provide more efficiency in work. This Projects is highly flexible for future addition and can adapt to any requirement.

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