C.V. RAMAN GLOBAL UNIVERSITY

BHUBANESWAR, ODISHA-752054

****DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

**OOPS USING JAVA**

EXPERIENCAL LEARNING PROJECT

**TOPIC – HOSPITAL MANAGEMENT SYSTEM**

**Submitted by,**

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**UNDER THE GUIDANCE OF,**

**Mrs. Mamtarani Das**

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**DECLARATION**

We hereby declare that the work, which is being presented in the Dissertation, entitled " HOSPITAL MANAGEMENT SYSTEM " in partial fulfilment for the award of Degree of "Bachelor of Technology" in Department of Computer Science and Engineering. C. V. RAMAN GLOBAL UNIVERSITY, BHUBANESWAR is a record of our own investigations carried out under the Guidance of Mrs. Mamtarani Das, Department of CSE, C.V. Raman Global University, Bhubaneswar.

We have not submitted the matter presented in this Dissertation anywhere for the award of any other Degree.

**ACKNOWLEDGEMENT**

The satisfaction of accomplishing the task would be incomplete without the mentioning of those people who made it possible and whose constant guidance and encouragement has been source of inspiration throughout this Experiential Learning Project work on **Hospital Management System**. No project is envisaged without the help and guidance of an experienced person respected in the field of concerned subject. Though the benefit achieved from them can never be adequately valued, we would like and express hearty gratitude towards them. We worked on the project under the guidance of our esteemed and beloved faculty of Computer Organization of the department of CSE, Mrs. Mamtarani Das with her wisdom and experience has enabled us to conduct the project work successfully. Finally, we thank one and all who helped us directly or indirectly for the completion of our project.

This project has been a source to learn and bring our theoretical knowledge to the real-life world. So, we would really acknowledge all the help and guidance for this project.

**ABSTRACT**

The hospital management system in Java is designed to automate various tasks and processes in a hospital setting. It aims to streamline operations, enhance efficiency, and improve patient care by digitizing administrative functions and providing real-time access to patient information. Our project Hospital Management system includes registration of patients, storing their details into the system, and also computerized billing in the pharmacy, and labs. Our software has the facility to give a unique id for every patient and stores the details of every patient and the staff automatically. It includes a search facility to know the current status of each room. User can search availability of a doctor and the details of a patient using the id. The 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.

**INTRODUCTION**

The Hospital Management System is a computerized system programmed and designed to deal with day-to-day operations and management of hospital activities. The program can look after inpatients, outpatients, records, database treatments, status illness, billings in the pharmacy, as well as labs. Main aim of developing a Hospital Management System is to improve the quality and management of hospital management in the areas of clinical process analysis and activity-based costing. Hospital Management System enables you to develop your organization and improve its effectiveness and quality of work. The objective is by using this website patient can search and view doctors’ profiles and also apply for appointment. This website project is also become useful for doctors and other hospital staffs for viewing patient’s details and write prescriptions to patients.

**OBJECTIVE**

The objective of a Hospital Management System developed in Java is to

* provide an efficient and effective solution for managing various aspects of hospital operations.
* The system aims to streamline hospital processes, improve the quality of healthcare services provided to patients, and reduce operational costs.
* The system is designed to provide a user-friendly interface for medical staff to manage patient data, appointments, medical records, billing, and inventory management.
* It is also intended to provide advanced reporting and analytics tools to help medical staff make informed decisions and improve hospital operations.
* Overall, the objective of a Hospital Management System in Java is to enhance the efficiency and effectiveness of hospital operations while ensuring the highest quality of patient care.

**ALGORITHM/PROCEDURE**

Here is the algorithm for the Java program for the Hospital management system that is used to show the database stored in the Hospital and any new entries that take place in the Hospital.

1. Enter the Main Menu
2. Enter the details you want to access in the given set of lists.
3. Each set has two main parts:
   * + 1. To add data to the database
       2. To view the Existing database
4. Repeat as per your requirements.

There are 6 main categories of information that we are working on. They are as follows:

1. **Details about Doctors:** A class called **doctor** is created which stores new information about doctors using the void new\_doctor() such as ID, Name, Specialization, Working hours, Qualification and the allotted room number. Implement methods for validating input data and storing it in the database.
2. **Details about Patients:** A class called **patient** is created which stores new information about doctors using the void new\_patient() such patient ID, name, Disease, Sex and Admit Status.

Implement methods for validating input data and storing it in the database.

1. **Details about Medicines:** A class called **medical** is created which stores new information about doctors using the void new\_medi() such as ID, Name, Specialization, Working hours, Qualification and the allotted room number.

Implement method find\_medi() for validating input data and storing it in the database.

1. **Details about Laboratories:** A class called **lab** is created which stores new information about doctors using the void new\_feci() such as facilities and cost.

Implement methods for validating input data and storing it in the database.

1. **Details about Facilities:** A class called **facility** is created which stores new information about doctors using the void feci\_list() which shows the list of facilities in the hospital such as Ambulance , Admit facility, Canteen and Emergency.

Implement methods for validating input data and storing it in the database.

1. **Details about Staff:** A class called **staff** is created which stores new information about doctors using the void new\_staff() such as Staff ID, Name, Designation and gender. Implement methods for validating input data and storing it in the database.

**SOURCE CODE**

import java.util.\*;

import java.util.Calendar;

class staff

{

    String sid, sname, desg, sex;

    int salary;

    void new\_staff()

    {

        Scanner input = new Scanner(System.in);

        System.out.print("id:-");

        sid = input.nextLine();

        System.out.print("name:-");

        sname = input.nextLine();

        System.out.print("desigination:-");

        desg = input.nextLine();

        System.out.print("sex:-");

        sex = input.nextLine();

        System.out.print("salary:-");

        salary = input.nextInt();

        input.close();

    }

    void staff\_info()

    {

        System.out.println(sid + "\t" + sname + "\t" + sex + "\t" + salary);

    }

}

class doctor

{

    String did, dname, specilist, appoint, doc\_qual;

    int droom;

    void new\_doctor()

    {

        Scanner input = new Scanner(System.in);

        System.out.print("id:-");

        did = input.nextLine();

        System.out.print("name:-");

        dname = input.nextLine();

        System.out.print("specilization:-");

        specilist = input.nextLine();

        System.out.print("work time:-");

        appoint = input.nextLine();

        System.out.print("qualification:-");

        doc\_qual = input.nextLine();

        System.out.print("room no.:-");

        droom = input.nextInt();

        input.close();

    }

    void doctor\_info()

    {

        System.out.println(did + "\t" + dname + "  \t" + specilist + "     \t" + appoint + "    \t" + doc\_qual + "       \t" + droom);

    }

}

class patient

{

    String pid, pname, disease, sex, admit\_status;

    int age;

    void new\_patient()

    {

        Scanner input = new Scanner(System.in);

        System.out.print("id:-");

        pid = input.nextLine();

        System.out.print("name:-");

        pname = input.nextLine();

        System.out.print("disease:-");

        disease = input.nextLine();

        System.out.print("sex:-");

        sex = input.nextLine();

        System.out.print("admit\_status:-");

        admit\_status = input.nextLine();

        System.out.print("age:-");

        age = input.nextInt();

        input.close();

    }

    void patient\_info()

    {

        System.out.println(pid + "\t" + pname + " \t" + disease + "     \t" + sex + "      \t" + admit\_status + "\t" + age);

    }

}

class medical

{

    String med\_name, med\_comp, exp\_date;

    int med\_cost, count;

    void new\_medi()

    {

        Scanner input = new Scanner(System.in);

        System.out.print("name:-");

        med\_name = input.nextLine();

        System.out.print("comp:-");

        med\_comp = input.nextLine();

        System.out.print("exp\_date:-");

        exp\_date = input.nextLine();

        System.out.print("cost:-");

        med\_cost = input.nextInt();

        System.out.print("no of unit:-");

        count = input.nextInt();

        input.close();

    }

    void find\_medi()

    {

        System.out.println(med\_name + "  \t" + med\_comp + "    \t" + exp\_date + "     \t" + med\_cost);

    }

}

class lab

{

    String fecility;

    int lab\_cost;

    void new\_feci()

    {

        Scanner input = new Scanner(System.in);

        System.out.print("fecility:-");

        fecility = input.nextLine();

        System.out.print("cost:-");

        lab\_cost = input.nextInt();

        input.close();

    }

    void feci\_list()

    {

        System.out.println(fecility + "\t\t" + lab\_cost);

    }

}

class fecility //Sorry Facility but do not change the name

{

    String fec\_name;

    void add\_feci()

    {

        Scanner input = new Scanner(System.in);

        System.out.print("fecility:-");

        fec\_name = input.nextLine();

        input.close();

    }

    void show\_feci()

    {

        System.out.println(fec\_name);

    }

}

public class HospitalManagement

{

    public static void main(String args[])

    {

        String months[] = {

            "Jan",

            "Feb",

            "Mar",

            "Apr",

            "May",

            "Jun",

            "Jul",

            "Aug",

            "Sep",

            "Oct",

            "Nov",

            "Dec"

        };

        Calendar calendar = Calendar.getInstance();

        //System.out.println("--------------------------------------------------------------------------------");

        int count1 = 4, count2 = 4, count3 = 4, count4 = 4, count5 = 4, count6 = 4;

        System.out.println("\n--------------------------------------------------------------------------------");

        System.out.println("            \*\*\* Welcome to Hospital Management System Project in Java \*\*\*");

        System.out.println("--------------------------------------------------------------------------------");

        System.out.print("Date: " + months[calendar.get(Calendar.MONTH)] + " " + calendar.get(Calendar.DATE) + " " + calendar.get(Calendar.YEAR));

        System.out.println("\t\t\t\t\t\tTime: " + calendar.get(Calendar.HOUR) + ":" + calendar.get(Calendar.MINUTE) + ":" + calendar.get(Calendar.SECOND));

        doctor[] d = new doctor[25];

        patient[] p = new patient[100];

        lab[] l = new lab[20];

        fecility[] f = new fecility[20];

        medical[] m = new medical[100];

        staff[] s = new staff[100];

        int i;

        for (i = 0; i < 25; i++)

            d[i] = new doctor();

        for (i = 0; i < 100; i++)

            p[i] = new patient();

        for (i = 0; i < 20; i++)

            l[i] = new lab();

        for (i = 0; i < 20; i++)

            f[i] = new fecility();

        for (i = 0; i < 100; i++)

            m[i] = new medical();

        for (i = 0; i < 100; i++)

            s[i] = new staff();

        d[0].did = "21";

        d[0].dname = "Dr.Ghanendra";

        d[0].specilist = "ENT";

        d[0].appoint = "5-11AM";

        d[0].doc\_qual = "MBBS,MD";

        d[0].droom = 17;

        d[1].did = "32";

        d[1].dname = "Dr.Vikram";

        d[1].specilist = "Physician";

        d[1].appoint = "10-3AM";

        d[1].doc\_qual = "MBBS,MD";

        d[1].droom = 45;

        d[2].did = "17";

        d[2].dname = "Dr.Rekha";

        d[2].specilist = "Surgeon";

        d[2].appoint = "8-2AM";

        d[2].doc\_qual = "BDM";

        d[2].droom = 8;

        d[3].did = "33";

        d[3].dname = "Dr.Pramod";

        d[3].specilist = "Artho";

        d[3].appoint = "10-4PM";

        d[3].doc\_qual = "MBBS,MS";

        d[3].droom = 40;

        p[0].pid = "12";

        p[0].pname = "Pankaj";

        p[0].disease = "Cancer";

        p[0].sex = "Male";

        p[0].admit\_status = "y";

        p[0].age = 30;

        p[1].pid = "13";

        p[1].pname = "Sumit";

        p[1].disease = "Cold";

        p[1].sex = "Male";

        p[1].admit\_status = "y";

        p[1].age = 23;

        p[2].pid = "14";

        p[2].pname = "Alok";

        p[2].disease = "Maleriya";

        p[2].sex = "Male";

        p[2].admit\_status = "y";

        p[2].age = 45;

        p[3].pid = "15";

        p[3].pname = "Ravi";

        p[3].disease = "Diabetes";

        p[3].sex = "Male";

        p[3].admit\_status = "y";

        p[3].age = 25;

        m[0].med\_name = "Corex";

        m[0].med\_comp = "Cino pvt";

        m[0].exp\_date = "9-5-16";

        m[0].med\_cost = 55;

        m[0].count = 8;

        m[1].med\_name = "Nytra";

        m[1].med\_comp = "Ace pvt";

        m[1].exp\_date = "4-4-15";

        m[1].med\_cost = 500;

        m[1].count = 5;

        m[2].med\_name = "Brufa";

        m[2].med\_comp = "Reckitt";

        m[2].exp\_date = "12-7-17";

        m[2].med\_cost = 50;

        m[2].count = 56;

        m[3].med\_name = "Pride";

        m[3].med\_comp = "DDF pvt";

        m[3].exp\_date = "12-4-12";

        m[3].med\_cost = 1100;

        m[3].count = 100;

        l[0].fecility = "X-ray     ";

        l[0].lab\_cost = 800;

        l[1].fecility = "CT Scan   ";

        l[1].lab\_cost = 1200;

        l[2].fecility = "OR Scan   ";

        l[2].lab\_cost = 500;

        l[3].fecility = "Blood Bank";

        l[3].lab\_cost = 50;

        f[0].fec\_name = "Ambulance";

        f[1].fec\_name = "Admit Facility ";

        f[2].fec\_name = "Canteen";

        f[3].fec\_name = "Emergency";

        s[0].sid = "22";

        s[0].sname = "Prakash";

        s[0].desg = "Worker";

        s[0].sex = "Male";

        s[0].salary = 5000;

        s[1].sid = "23";

        s[1].sname = "Komal";

        s[1].desg = "Nurse";

        s[1].sex = "Female";

        s[1].salary = 2000;

        s[2].sid = "24";

        s[2].sname = "Raju";

        s[2].desg = "Worker";

        s[2].sex = "Male";

        s[2].salary = 5000;

        s[3].sid = "25";

        s[3].sname = "Rani";

        s[3].desg = "Nurse";

        s[3].sex = "Female";

        s[3].salary = 20000;

        Scanner input = new Scanner(System.in);

        int choice, j, c1, status = 1, s1 = 1, s2 = 1, s3 = 1, s4 = 1, s5 = 1, s6 = 1;

        while (status == 1)

        {

            System.out.println("\n                                    MAIN MENU");

            System.out.println("-----------------------------------------------------------------------------------");

            System.out.println("1.Doctors  2. Patients  3.Medicines  4.Laboratories  5. Facilities  6. Staff ");

            System.out.println("-----------------------------------------------------------------------------------");

            choice = input.nextInt();

            switch (choice)

            {

                case 1:

                    {

                        System.out.println("--------------------------------------------------------------------------------");

                        System.out.println("                      \*\*DOCTOR SECTION\*\*");

                        System.out.println("--------------------------------------------------------------------------------");

                        s1 = 1;

                        while (s1 == 1)

                        {

                            System.out.println("1.Add New Entry\n2.Existing Doctors List");

                            c1 = input.nextInt();

                            switch (c1)

                            {

                                case 1:

                                    {

                                        d[count1].new\_doctor();count1++;

                                        break;

                                    }

                                case 2:

                                    {

                                        System.out.println("--------------------------------------------------------------------------------");

                                        System.out.println("id \t Name\t Specilist \t Timing \t Qualification \t Room No.");

                                        System.out.println("--------------------------------------------------------------------------------");

                                        for (j = 0; j < count1; j++)

                                        {

                                            d[j].doctor\_info();

                                        }

                                        break;

                                    }

                            }

                            System.out.println("\nReturn to Back Press 1 and for Main Menu Press 0");

                            s1 = input.nextInt();

                        }

                        break;

                    }

                case 2:

                    {

                        System.out.println("--------------------------------------------------------------------------------");

                        System.out.println("                     \*\*PATIENT SECTION\*\*");

                        System.out.println("--------------------------------------------------------------------------------");

                        s2 = 1;

                        while (s2 == 1)

                        {

                            System.out.println("1.Add New Entry\n2.Existing Patients List");

                            c1 = input.nextInt();

                            switch (c1)

                            {

                                case 1:

                                    {

                                        p[count2].new\_patient();count2++;

                                        break;

                                    }

                                case 2:

                                    {

                                        System.out.println("--------------------------------------------------------------------------------");

                                        System.out.println("id \t Name \t Disease \t Gender \t Admit Status \t Age");

                                        System.out.println("--------------------------------------------------------------------------------");

                                        for (j = 0; j < count2; j++) {

                                            p[j].patient\_info();

                                        }

                                        break;

                                    }

                            }

                            System.out.println("\nReturn to Back Press 1 and for Main Menu Press 0");

                            s2 = input.nextInt();

                        }

                        break;

                    }

                case 3:

                    {

                        s3 = 1;

                        System.out.println("--------------------------------------------------------------------------------");

                        System.out.println("                     \*\*MEDICINE SECTION\*\*");

                        System.out.println("--------------------------------------------------------------------------------");

                        while (s3 == 1)

                        {

                            System.out.println("1.Add New Entry\n2. Existing Medicines List");

                            c1 = input.nextInt();

                            switch (c1)

                            {

                                case 1:

                                    {

                                        m[count3].new\_medi();count3++;

                                        break;

                                    }

                                case 2:

                                    {

                                        System.out.println("--------------------------------------------------------------------------------");

                                        System.out.println("Name \t Company \t Expiry Date \t Cost");

                                        System.out.println("--------------------------------------------------------------------------------");

                                        for (j = 0; j < count3; j++) {

                                            m[j].find\_medi();

                                        }

                                        break;

                                    }

                            }

                            System.out.println("\nReturn to Back Press 1 and for Main Menu Press 0");

                            s3 = input.nextInt();

                        }

                        break;

                    }

                case 4:

                    {

                        s4 = 1;

                        System.out.println("--------------------------------------------------------------------------------");

                        System.out.println("                    \*\*LABORATORY SECTION\*\*");

                        System.out.println("--------------------------------------------------------------------------------");

                        while (s4 == 1)

                        {

                            System.out.println("1.Add New Entry \n2.Existing Laboratories List");

                            c1 = input.nextInt();

                            switch (c1)

                            {

                                case 1:

                                    {

                                        l[count4].new\_feci();count4++;

                                        break;

                                    }

                                case 2:

                                    {

                                        System.out.println("--------------------------------------------------------------------------------");

                                        System.out.println("Facilities\t\t Cost");

                                        System.out.println("--------------------------------------------------------------------------------");

                                        for (j = 0; j < count4; j++) {

                                            l[j].feci\_list();

                                        }

                                        break;

                                    }

                            }

                            System.out.println("\nReturn to Back Press 1 and for Main Menu Press 0");

                            s4 = input.nextInt();

                        }

                        break;

                    }

                case 5:

                    {

                        s5 = 1;

                        System.out.println("--------------------------------------------------------------------------------");

                        System.out.println("          \*\*HOSPITAL FACILITY SECTION\*\*");

                        System.out.println("--------------------------------------------------------------------------------");

                        while (s5 == 1)

                        {

                            System.out.println("1.Add New Facility\n2.Existing Fecilities List");

                            c1 = input.nextInt();

                            switch (c1)

                            {

                                case 1:

                                    {

                                        f[count5].add\_feci();count5++;

                                        break;

                                    }

                                case 2:

                                    {

                                        System.out.println("--------------------------------------------------------------------------------");

                                        System.out.println("Hospital  Facility are:");

                                        System.out.println("--------------------------------------------------------------------------------");

                                        for (j = 0; j < count5; j++) {

                                            f[j].show\_feci();

                                        }

                                        break;

                                    }

                            }

                            System.out.println("\nReturn to Back Press 1 and for Main Menu Press 0");

                            s5 = input.nextInt();

                        }

                        break;

                    }

                case 6:

                    {

                        s6 = 1;

                        System.out.println("--------------------------------------------------------------------------------");

                        System.out.println("                       \*\*STAFF SECTION\*\*");

                        System.out.println("--------------------------------------------------------------------------------");

                        while (s6 == 1)

                        {

                            String a = "nurse", b = "worker", c = "security";

                            System.out.println("1.Add New Entry \n2.Existing Nurses List\n3.Existing Workers List \n4.Existing Security List");

                            c1 = input.nextInt();

                            switch (c1)

                            {

                                case 1:

                                    {

                                        s[count6].new\_staff();count6++;

                                        break;

                                    }

                                case 2:

                                    {

                                        System.out.println("--------------------------------------------------------------------------------");

                                        System.out.println("id \t Name \t Gender \t Salary");

                                        System.out.println("--------------------------------------------------------------------------------");

                                        for (j = 0; j < count6; j++)

                                        {

                                            if (a.equals(s[j].desg))

                                                s[j].staff\_info();}

                                        break;

                                    }

                                case 3:

                                    {

                                        System.out.println("--------------------------------------------------------------------------------");

                                        System.out.println("id \t Name \t Gender \t Salary");

                                        System.out.println("--------------------------------------------------------------------------------");

                                        for (j = 0; j < count6; j++)

                                        {

                                            if (b.equals(s[j].desg))

                                                s[j].staff\_info();

                                        }

                                        break;

                                    }

                                case 4:

                                    {

                                        System.out.println("--------------------------------------------------------------------------------");

                                        System.out.println("id \t Name \t Gender \t Salary");

                                        System.out.println("--------------------------------------------------------------------------------");

                                        for (j = 0; j < count6; j++)

                                        {

                                            if (c.equals(s[j].desg))

                                                s[j].staff\_info();

                                        }

                                        break;

                                    }

                            }

                            System.out.println("\nReturn to Back Press 1 and for Main Menu Press 0");

                            s6 = input.nextInt();

                        }

                        break;

                    }

                default:

                  System.out.println(" You Have Enter Wrong Choice!!!");

             }

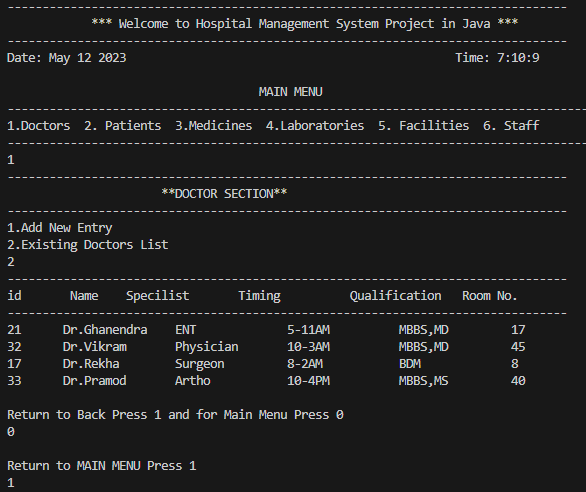
            System.out.println("\nReturn to MAIN MENU Press 1");

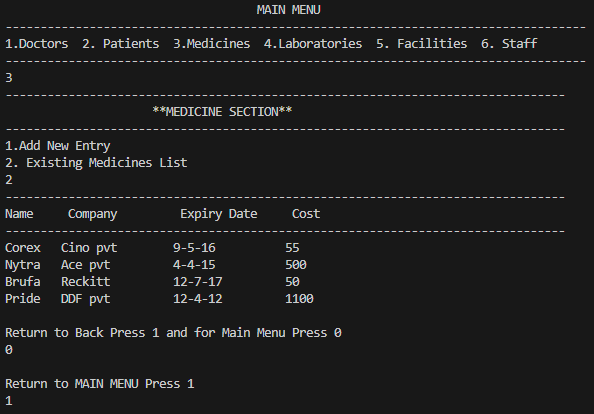
            status = input.nextInt();

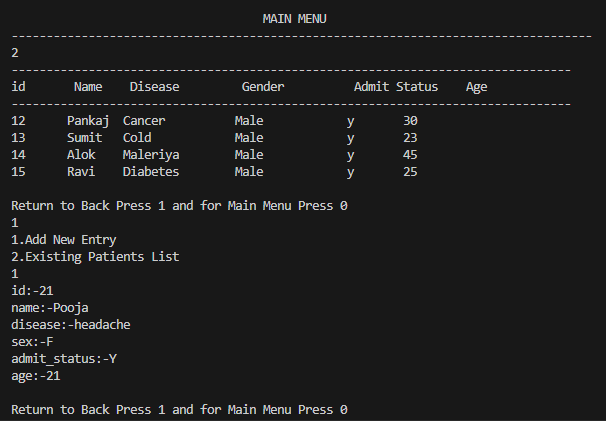
        }

        input.close();

    }}

**OUTPUT:**





**Applications of Hospital Management System**

* With the large amounts of data, people involved and innumerable processes, a hospital is definitely an ideal candidate for data management software. If hospitals are to run efficiently, provide top line care, ensure patient and other data confidentiality, and work seamlessly – they cannot hope to do so without an effective [Hospital Management System Software](https://www.karexpert.com/hospital-information-management-system?utm_source=Direct&utm_medium=https://www.karexpert.com/blogs/what-is-hospital-management-system/&referer=Direct&origin_referer=https://www.karexpert.com/blogs/what-is-hospital-management-system/). Reduced human intervention for paperwork, less paperwork, reduced staff headcount for jobs that can be easily managed within the HMS, speedier processes, reduction of errors, and data privacy and safety – are just some of the benefits of a Hospital Management System.
* For the hospitals, HMS translates to being able to track patient history, provide better care, keep track of appointments, save patient insurance and payment data, enable doctors and clinicians to check patient history, maintain patient care continuity, and save time and effort on unnecessary tedious manual tasks. This [Electronic Medical Record (EMR)](https://www.karexpert.com/saas/ehr-emr-software/?utm_source=Direct&utm_medium=https://www.karexpert.com/blogs/what-is-hospital-management-system/&referer=Direct&origin_referer=https://www.karexpert.com/blogs/what-is-hospital-management-system/) or Electronic Health Record (EHR) is the journey of a patient with the hospital – keeping track of the date of every visit, doctor consulted, medicines and advice prescribed, and other information for the patient. This ensures that even if a patient visits after a long break, the patient and hospital will not require going through the registration process again.
* Hospital records are easily audited and kept compliant with policies and laws. In addition, the Hospital Management System is cost effective – it reduces the need for staff to manage manual entries, manage paperwork, and ensure accurate filing. This in turn significantly reduces the possibility of human error, which can prove costly on many counts.
* Another significant benefit/factor of the HMS is it is customizable to the needs and requirements of a particular hospital/healthcare facility.

**Advantages Of Hospital Management System**

• **Digital Medical**

Records The hospital database holds all the important patient data, to make an exact diagnosis and guide the patient’s health can obtain the disease history, test issues, prescribed treatment.

• **Department Management Hospitals**

specialists are capable to manage their possible resources, examine department staff work, overcome the equipment downtime, optimize the supply series, etc. It deals with digital data instead of countless paperwork.

• **Better Data**

Security A full-fledged hospital management system holds each bit of data secure from unauthorized access.

**• Financial Manage and Tax Planning**

The administration has the capacity to control various and complex financial operations including monthly or daily expenses, profits, and losses, paying bills and taxes, and outpatient billing.

**• Less-Time Consuming**

It saves the time of all the system users and gives them with upto-date information.

**Limitations of Hospital Management**

• The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.

• Training for simple computer operations is necessary for the users working on the system.

**FUTURE PLANS**

* Information about Patients is done by just writing the Patients name, age, and gender.
* Bills are generated by recording the price for each facility provided to the Patient on a separate sheet and at last, they all are summed up.
* All this work is done manually by the receptionist and other operational staff and a lot of papers are needed to be handled and taken care of.
* The proposed system is Hospital Management System. We can enhance this system by including more facilities like pharmacy system for the stock details of medicines in the pharmacy. Providing such features enable the users to include more comments into the system

**CONCLUSION**

Taking into account all the mentioned details, we can make the conclusion that the hospital management system is the inevitable part of the lifecycle of the modern medical institution. It automates numerous daily operations and enables smooth interactions of the users. Developing the hospital system software is a great opportunity to create the distinct, efficient and fast delivering healthcare model. Implementation of hospital management system project helps to store all the kinds of records, provide coordination and user communication, implement policies, improve day-to-day operations, arrange the supply chain, manage financial and human resources, and market hospital services. This beneficial decision covers the needs of the patients, staff and hospital authorities and simplifies their interactions. It has become the usual approach to manage the hospital.

**REFERENCES**

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* https://github.com/rollbar/rollbar-java
* https://stackoverflow.com/questions/15398703/exception-in-thread-main-java-util-nosuchelementexception