VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI -590 018, KARNATAKA

DBMS MINI PROJECT REPORT

ON

"Hospital Bed Slot Booking System"

Submitted in the partial fulfillment of requirements for the

5th SEM DBMS MINI PROJECT (21CSL55)

IN

COMPUTER SCIENCE AND ENGINEERING

PROJECT ASSOCIATES

Anushree B Kuppast	**4BD21CS020**
Komal P Jadimath	**4BD21CS062**

PROJECT GUIDES

Dr. Gururaj T Ph.D.,	**Prof. Arjun H** M.Tech,
Associate Professor	**Assistant Professor**

2023-2024

Bapuji Institute of Engineering and Technology
Department of Computer Science and Engineering
Davanagere-577004

Bapuji Institute of Engineering and Technology
Davanagere – 577004

Department of Computer Science and Engineering

CERTIFICATE

This is to certify that **Anushree B Kuppast and Komal P Jadimath** bearing USN **4BD20CS000 and 4BD20CS000** respectively of Computer Science and Engineering department have satisfactorily submitted the Mini Project report entitled **"Hospital Bed Slot Booking System"** for **5th SEM DBMS MINI PROJECT (21CSL55).** The project report has been approved as it satisfies the academic requirements for the year 2023-24.

Dr. Gururaj T Ph.D.,	**Prof. Arjun H M.Tech.,**
Associate Professor	**Assistant Professor**
Guide	**Co-Guide**

Dr. Nirmala C R Ph.D.,
Head of Department

Signature of Examiners:

Date: **1.**_____

Place: Davanagere **2.**_____

ACKNOWLEDGEMENT

Salutations to our beloved and highly esteemed institute, **"BAPUJI INSTITUTE OF ENGINEERING AND TECHNOLOGY"** for having well-qualified staff and labs furnished with the necessary equipment.

We express our sincere thanks to our resourceful guides **Dr. Gururaj T**, Associate Professor, Department of Computer Science and Engineering, B.I.E.T., Davanagere, and **Prof. Arjun H**, Assistant Professor, Department of Computer Science and Engineering, BI.E.T., Davanagere, who helped us in every aspect of our project. We are indebted to her discussions about the technical aspects and suggestions pertaining to our project.

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We would like to extend our gratitude to all staff of the **Department of Computer Science and Engineering** for the help and support rendered to us. We have benefited a lot from the feedback, and suggestions given by them.

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Anushree B Kuppast (4BD21CS020)
Komal P Jadimath (4BD21CS062)

Bapuji Educational Association (Regd.)
Bapuji Institute of Engineering and Technology, Davangere-577004

Vision and Mission of the Institute

Vision

―To be a centre of excellence recognized nationally internationally, in distinctive areas of engineering education and research, based on a culture of innovation and invention.‖

Mission

―BIET contributes to the growth and development of its students by imparting a broadbased engineering education and empowering them to be successful in their chosen field by inculcating in them positive approach, leadership qualities and ethical values.‖

Vision and Mission of the Computer Science and Engineering Department

Vision

―To be a centre-of-excellence by imbibing state-of-the-art technology in the field of Computer Science and Engineering, thereby enabling students to excel professionally and be ethical.‖

Mission

1.	Adapting best teaching and learning techniques that cultivates Questioning and Reasoning culture among the students.
2.	Creating collaborative learning environment that ignites the critical thinking in students and leading to the innovation.
3.	Establishing Industry Institute relationship to bridge skill gap and make them industry ready and relevant.
4.	Mentoring students to be socially responsible by inculcating ethical and moral values.

Program Educational Objectives (PEOs):

PEO1	To apply skills acquired in the discipline of computer science and engineering for solving Societal and industrial problems with apt technology intervention.
PEO2	To continue their carrier ion industry /academia or pursue higher studies and research.

PEO3	To become successful entrepreneurs, innovators to design and develop software
	products and services that meets societal, technical and business challenges.
PEO4	To work in the diversified environment by acquiring leadership qualities with effective communication skills accompanied by professional and ethical values.

Program Specific Outcomes (PSOs):

PSO1	Analyse and develop solutions for problems that are complex in nature but applying the knowledge acquired from the core subjects of this program.
PSO2	To develop secure, scalable, resilient and distributed applications for industry and societal Requirements.
PSO3	To learn and apply the concepts and contract of emerging technologies like artificial intelligence, machine learning, deep learning, big-data analytics, IOT, cloud computing etc for any real time problems.

Course Learning Objectives:

- Foundation knowledge in database concepts, technology and practice to groom students into well-informed database application developers.
- Strong practice in SQL programming through a variety of database problems.
- Develop database applications using front-end tools and back-end DBMS.

Course Outcomes:

CO1: Create, Update and query on the database.

CO2: Demonstrate the working of different concepts of DBMS

CO3: Implement, analyze and evaluate the project developed for an application.

ABSTRACT

The Hospital Bed Slot Booking System is a database management system (DBMS) project designed to facilitate efficient management and booking of hospital beds. With the ongoing challenges in healthcare, especially during emergencies like the COVID-19 pandemic, efficient allocation and tracking of hospital beds become critical. This system aims to provide a solution to manage bed availability, patient admissions, and discharge processes effectively. The system will maintain a database of all beds in the hospital, including details like bed type (ICU, general, etc.), availability status, and location within the hospital. The primary objective of this DBMS project is to create a robust system that allows hospital staff to manage bed availability, assign beds to patients, track patient admissions, and facilitate timely discharge when required. The system should also provide reporting capabilities for analyzing bed utilization, occupancy rates, and overall hospital efficiency.

CONTENT

CHAPTER 1

1.1 INTRODUCTION

The project hospital bed slot allotment system includes registration of patients, storing their details into the system. The software has the ability to give a unique id to each patient and stores the details of every patient and their vaccination details automatically. Users can search availability of the bed and the details of a patient using the id. The hospital bed slot allotment system can be entered by using a username and password. It is accessible either by an administrator or receptionist. Only they can and data into the database. The data can be retrieved easily. The interface is very user friendly. The data is very well protected for personal use and makes the data processing very fast. Hospital bed slot allotment system is a very powerful, flexible and easy to use and is designed for multi purposes. It is an integrated end to end Hospital bed slot allotment system that provides relevant information and decision making for the user in the interface for a seamless flow. Hospital bed slot allotment system is a software product suite designed to improve the time required to allot a new patient a bed as immediately as possible. This system enables you to develop your organization and improve its effectiveness and quality of work. Managing the key processes efficiently is critical to the success of the entire system.

1.2 DBMS (DATABASE MANAGEMENT SYSTEM)

Database is a collection of related data and data is a collection of facts and figures that can be processed to produce information. Mostly data represents recordable facts. Data aids in producing information, which is based on facts. For example, if we have data about marks obtained by all students, we can then conclude about toppers and average marks.

A database management system (DBMS) is a software package designed to define, manipulate, retrieve and manage data in a database. A DBMS generally manipulates the data itself, the data format, field names, record structure and file structure. It also defines rules to validate and manipulate this data.

A DBMS relieves users of framing programs for data maintenance. Fourth- generation query languages, such as SQL, are used along with the DBMS package to interact with a database.
Some other DBMS examples include:

· MySQL

· SQL Server

· Oracle

· D BASE

1.3 PYTHON FRAMEWORK

Python frameworks automate the implementation of several tasks and give developers a structure for application development. Each framework comes with its own collection of modules or packages that significantly reduce development time. A Python framework can either be fullstack, micro, or asynchronous

1.4 BootStrap

Bootstrap is a free, open source front-end development framework for the creation of websites and web apps. Designed to enable responsive development of mobile-first websites, Bootstrap provides a collection of syntax for template designs.

1.5PROBLEM STATEMENT

Hospital bed slot booking involves creating a system or application to facilitate the efficient management of hospital beds. This includes features such as real-time monitoring of bed availability, allowing patients or healthcare providers to book or reserve beds based on urgency and medical condition, managing cancellations and rescheduling, ensuring fair allocation of resources, and optimizing bed utilization to meet the demands of patients requiring different levels of care.

Develop a digital platform to streamline the allocation of hospital beds, allowing patients or healthcare personnel to book beds online based on availability, urgency, and medical condition, while ensuring equitable distribution of resources and efficient management of cancellations and rescheduling.

Design an integrated system for hospital bed management, enabling real-time tracking of bed availability across multiple healthcare facilities, empowering users to reserve beds according to priority and severity of illness, and implementing protocols for fair allocation and utilization of beds amidst fluctuating demand.

Create a user-friendly application for hospital bed booking, offering patients or caregivers the ability to search for and secure available beds in nearby hospitals, prioritize bookings based on medical urgency, and enable seamless communication between healthcare providers and patients for efficient scheduling and updates.

1.5 OBJECTIVES

- To develop a rental management system that allows the user to view customers‟ data as well as record.
- To develop a system that allows the users to add, edit, search and delete data from the database.
- To study and analyse the requirement specifications of the rental house management system.

CHAPTER 2 REQUIREMENT SPECIFICATION

2.1 HARDWARE REQUIREMENTS

The Hardware required for the development of this project is:

- Processor : Intel Core i5
- System type : 64-bit operating system
- RAM : 8 GB RAM
- Version : Windows 11 Pro
- Hard Disk : 20GB(approx.)

2.2 SOFTWARE REQUIREMENTS

The Software required for the development of this project is:

• Technology Implemented : Apache Server, MySQL Server

• Language Used : Python

• Database : My SQL

• User Interface Design : HTML, CSS, Bootstrap.

• Web Browser : Google Chrome, Firefox

• Software : XAMPP Version: 7.1.10

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CHAPTER 3

3.1 ER Diagram And description

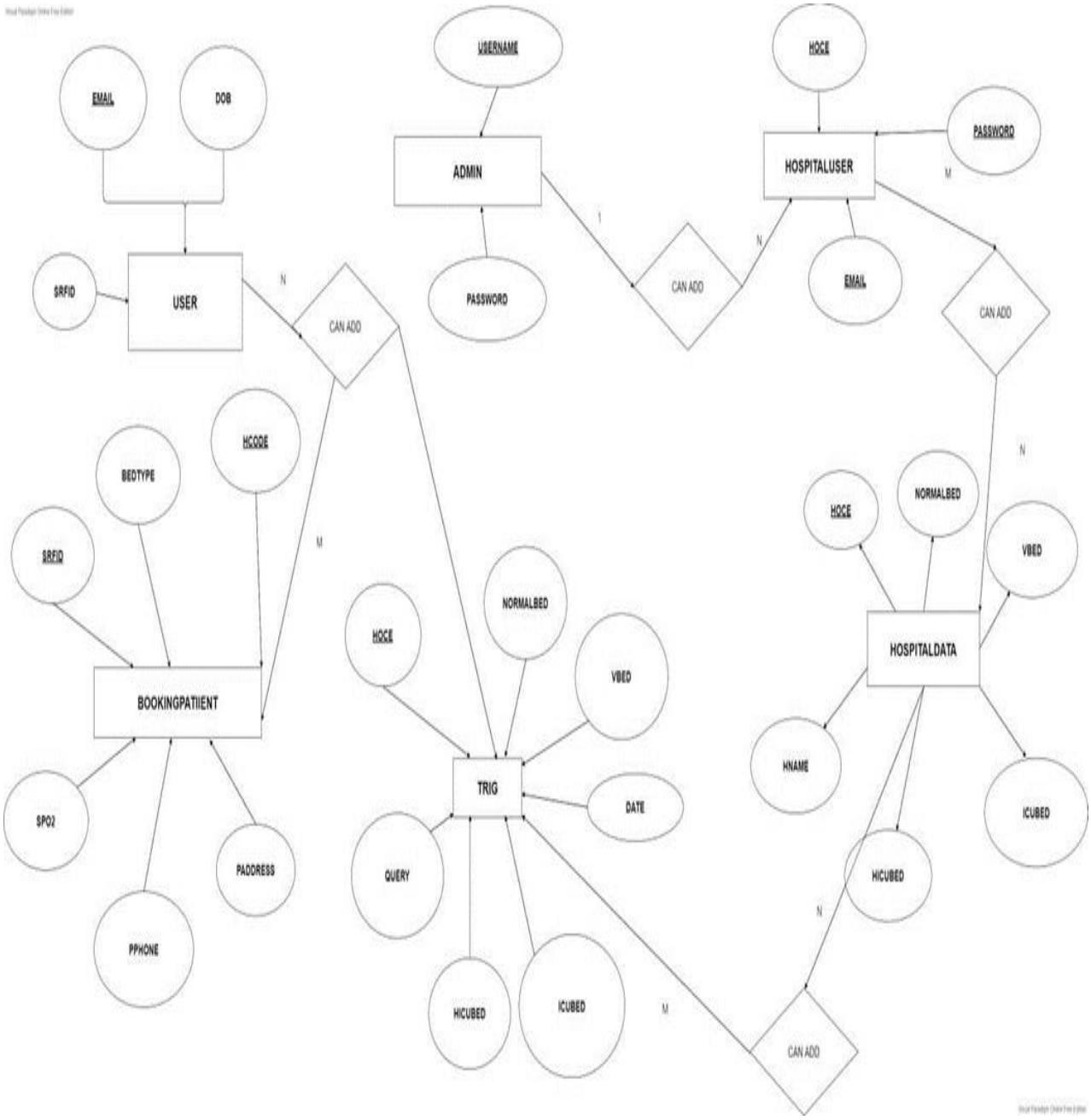


Fig 2.1: ER Diagram of Hospital

3.2 DESCRIPTION

The ER Model figure shows a conceptual view of the database. It works around realworld entities and the associations among them. At view level, the ER model is considered a good option for designing databases. So, let‟s see each entity

ADMIN TABLE

This entity stores the information about the admin who registers and logs in using his username and password.

USER TABLE

This entity stores the information about the user who registers. Attributes are id, srfid, email, dob.

HOSPITAL USER TABLE

This entity stores the information about the hospital user who can add the hospital data .Attributes are email, hcode, passward.

HOSPITAL DATA TABLE

This entity stores the information about the hospital and available beds .Attributes are hcode, hicubed, hname, icubed, normalbed, vbed.

BOOKING PATIENT TABLE

This entity stores the information about the patient details. Attributes are id, srfid, bedtype, hcode, pname, pphone, paddress.

SEVEN STEPS FOR ER TO SCHEMA CONVERSION

Step 1: Mapping of Regular Entity Types.

For each regular (strong) entity type E in the ER schema, create a relation R that includes all the simple attributes of E. Include only the simple component attributes of a composite attribute. Choose one of the key attributes of E as the primary key for R. If the chosen key of E is a composite, then the set of simple attributes that form it will together form the primary key of R. If multiple keys were identified for E during the conceptual design, the information describing the attributes that form each additional key is kept in order to specify secondary (unique) keys of relation R. Knowledge about keys is also kept for indexing purposes and other types of analyses.

Step 2: Mapping of Weak Entity Types.

For each weak entity type W in the ER schema with owner entity type E, create a relation R and include all simple attributes (or simple components of composite attributes) of was attributes of R. In addition, include as foreign key attributes of R, the primary key attribute(s) of the relation(s) that correspond to the owner entity type(s); this takes care of mapping the identifying relationship type of W. The primary key of R is the combination of the primary key(s) of the owner(s) and the partial key of the weak entity type W, if any. If there is a weak entity type E2 whose owner is also a weak entity type E1, then E1 should be mapped before E2 to determine its primary key first.

Step 3: Mapping of Binary 1:1 Relationship Types.

For each binary 1:1 relationship type R in the ER schema, identify the relations S and T that correspond to the entity types participating in R. There are three possible approaches:

1. The foreign key approach.

2. The merged relationship approach, and the first approach is the most useful and should befollowed unless special conditions exist, as we discuss below.

1.Foreign key approach:

Choose one of the relations—S, say—and include as a foreign key in S the primary key of T. It is better to choose an entity type with total participation in R in the role of S. Include all the simple

attributes (or simple components of composite attributes) of the 1:1 relationship type R as attributes of S.

2.Merged relation approach:

An alternative mapping of a 1:1 relationship type is to merge the two entity types and the relationship into a single relation. This is possible when both participations are total, as this would indicate that the two tables will have the exact same number of tuples at all times.

3.Cross-reference or relationship relation approach:

The third option is to set up a third relation R for the purpose of cross-referencing the primary keys of the two relations S and T representing the entity types. As we will see, this approach is required for binary M: N relationships. The relation R is called a relationship relation (or sometimes a lookup table), because each tuple in R represents a relationship instance that relates one tuple from S with one tuple from T. The relation R will include the primary key attributes of S and T as foreign keys to S and T. The primary key of R will be one of the two foreign keys, and the other foreign key will be a unique key of R. The drawback is having an extra relation, and requiring an extra join operation when combining related tuples from the tables.

Step 4: Mapping of Binary 1: N Relationship Types.

For each regular binary 1: N relationship type R, identify the relation S that represents the participating entity type at the N-side of the relationship type. Include as foreign key in S the primary key of the relation T that represents the other entity type participating in R; we do this because each entity instance on the N-side is related to at most one entity instance on the 1-side of the relationship type. Include any simple attributes (or simple components of composite attributes) of the 1: N relationship type as attributes of S.CS&E Dept, B.I.E.T,

Step 5: Mapping of Binary M: N Relationship Types.

For each binary M: N relationship type R, create a new relation S to represent R. Include as foreign key attributes in S the primary keys of the relations that represent the participating entity types; their combination will form the primary key of S. Also include any simple attributes of the M: N relationship type (or simple components of composite attributes) as attributes of S.Notice that we cannot represent an M: N relationship type by a single foreign key attribute in one of the participating

relations (as we did for 1:1 or 1: N relationship types) because of the M: N cardinality ratio; we must create a separate relationship relation S.

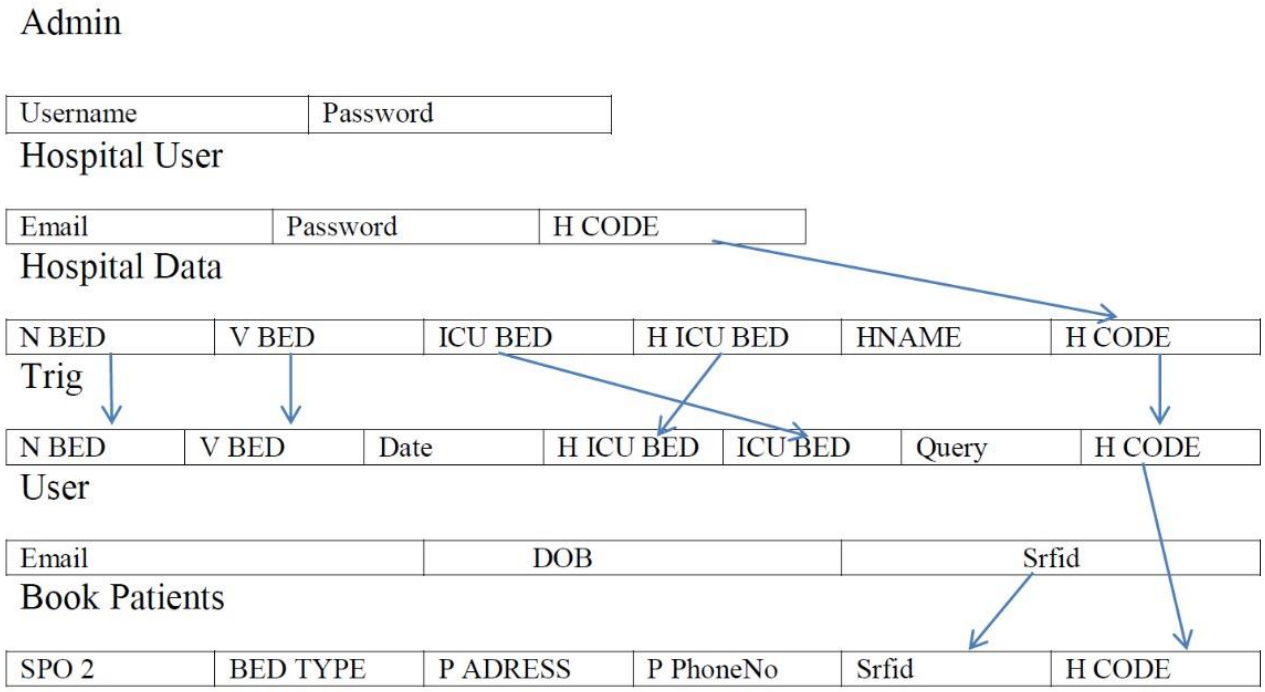
Step 6: Mapping of Multivalued Attributes.

For each multivalued attribute A, create a new relation R. This relation R will include an attribute corresponding to A, plus the primary key attribute K—as a foreign key in R—of the relation that represents the entity type or relationship type that has A as a multivalued attribute. The primary key of R is the combination of A and K. If the multivalued attribute is composite, we include its simple components.

Step 7: Mapping of N-array Relationship Types.

For each n-array relationship type R, where n > 2, create a new relation S to represent R. Include as foreign key attributes in S the primary keys of the relations that represent the participating entity types. Also include any simple attributes of the n-array relationship type (or simple components of composite attributes) as attributes of S. The primary key of S is usually a combination of all the foreign keys that reference the relations representing the participating entity types. However, if the cardinality constraints on any of the entity types E participating in R is 1, then the primary key of S should not include the foreign key attribute that references the relation E _corresponding to E.

3.3 SCHEMA DIAGRAM



3.5 DATABASE DESCRIPTION

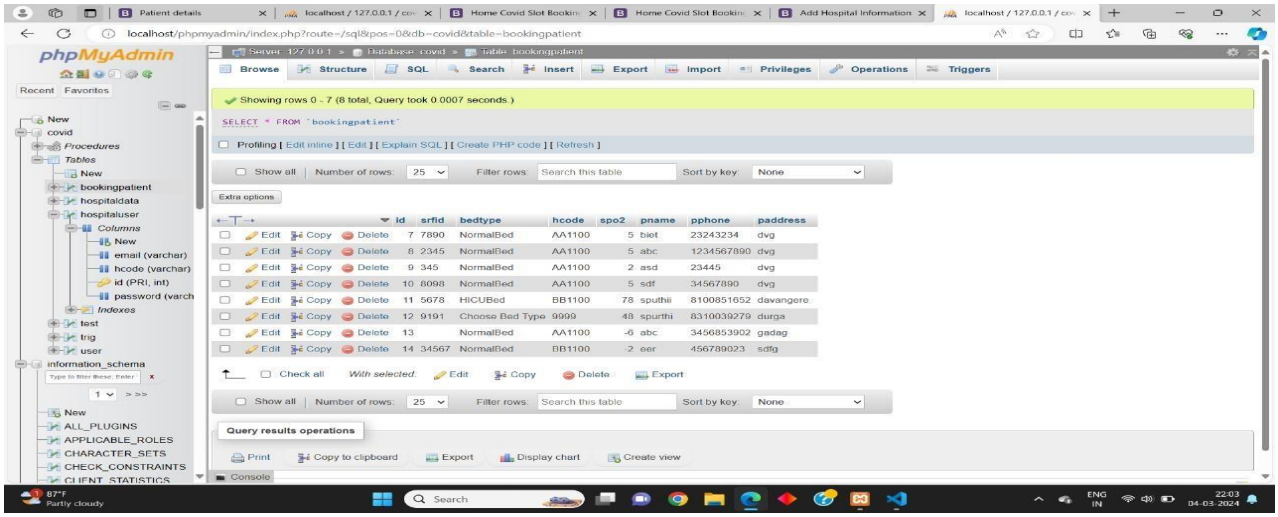


Table 3.4.1: description of booking patients

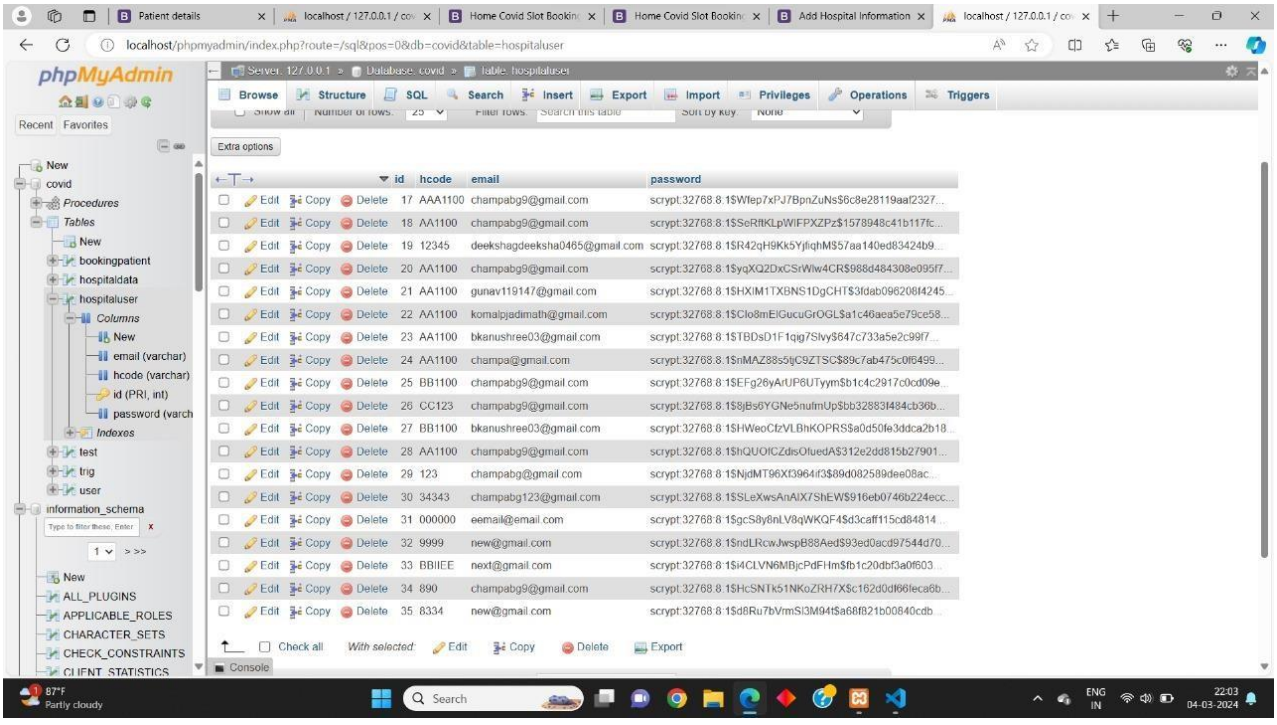


Table 3.4.2:hospital user table

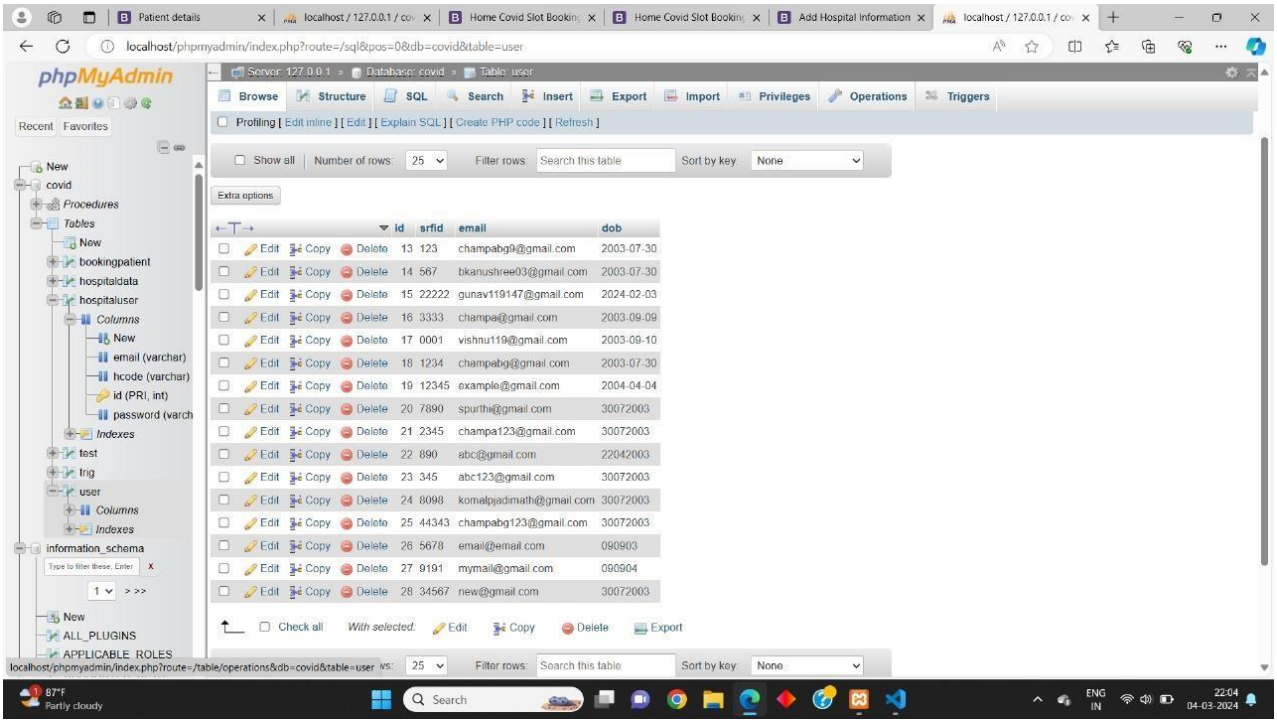


Table 3.4.3: user table

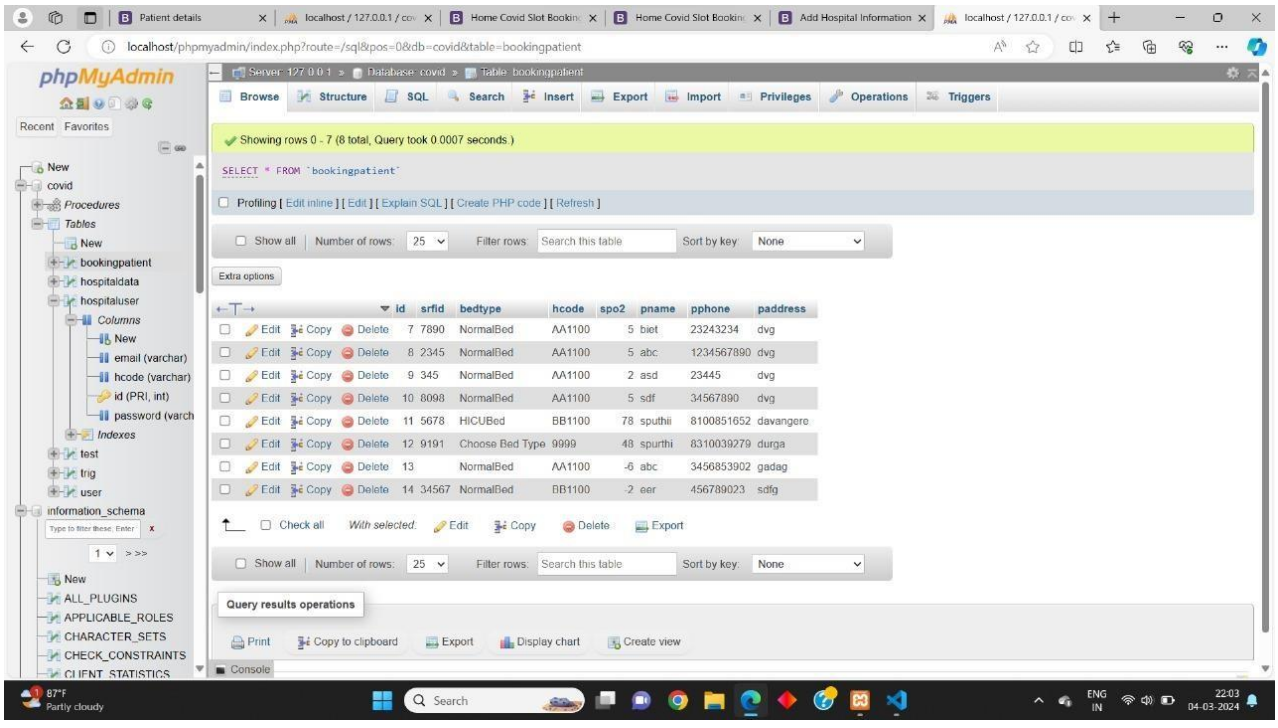


Table 3.4.4: hospital user table

CHAPTER 4

IMPLEMENTATION COD

4.2.1 Create Statements

```
-- phpMyAdmin SQL Dump

--version 5.0.2

-- https://www.phpmyadmin.net/

--

-- Host: 127.0.0.1

-- Generation Time: Jan 30, 2022 at 03:04 PM

-- Server version: 10.4.11-MariaDB

-- PHP Version: 7.2.29

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";

START TRANSACTION;

SET time_zone = "+00:00";

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;

/*!40101 SET
@OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;

/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION
*/;

/*!40101 SET NAMES utf8mb4 */;

-- Database: covid

DELIMITER $$

-- Procedures
```

```
    CREATE DEFINER=root@localhost PROCEDURE getPatientDetails (IN inp
VARCHAR(50))  NO SQL

    SELECT pname,pphone,srfid,bedtype,paddress FROM bookingpatient WHERE hcode=inp$$
    CREATE DEFINER=root@localhost PROCEDURE getUsers ()  NO SQL

    SELECT * FROM user$$

DELIMITER ;

    -- Table structure for table bookingpatient

CREATE TABLE bookingpatient (   id

    int(11) NOT NULL,   srfid

    varchar(50) NOT NULL,   bedtype

    varchar(50) NOT NULL,   hcode

    varchar(50) NOT NULL,   spo2

    int(11) NOT NULL,   pname

    varchar(50) NOT NULL,   pphone

    varchar(12) NOT NULL,

    paddress text NOT NULL

    ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

    -- Table structure for table hospitaldata

    --CREATE TABLE hospitaldata (   id

    int(11) NOT NULL,   hcode

    varchar(200) NOT NULL,   hname

    varchar(200) NOT NULL,   normalbed

    int(11) NOT NULL,   hicubed int(11)
```

NOT NULL, icubed int(11) NOT

NULL, vbed int(11) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

- Triggers hospitaldata

DELIMITER $$

CREATE TRIGGER Insert AFTER INSERT ON hospitaldata FOR EACH ROW INSERT INTO trig VALUES(null,NEW.hcode,NEW.normalbed,NEW.hicubed,NEW.icubed,NEW.vbed,' INSERTED',NOW())

$$

DELIMITER ;

DELIMITER $$

CREATE TRIGGER Update AFTER UPDATE ON hospitaldata FOR EACH ROW INSERT INTO trig VALUES(null,NEW.hcode,NEW.normalbed,NEW.hicubed,NEW.icubed,NEW.vbed,' UPDATED',NOW())

$$

DELIMITER ;

DELIMITER $$

CREATE TRIGGER delet BEFORE DELETE ON hospitaldata FOR EACH ROW INSERT INTO trig VALUES(null,OLD.hcode,OLD.normalbed,OLD.hicubed,OLD.icubed,OLD.vbed,' DELETED',NOW())

$$

DELIMITER ;

-- Table structure for table hospitaluser

CREATE TABLE hospitaluser (id

int(11) NOT NULL, hcode

varchar(20) NOT NULL, email

```
varchar(100) NOT NULL,   password

varchar(1000) NOT NULL )

ENGINE=InnoDB DEFAULT

CHARSET=utf8mb4;


-- Table structure for table test

CREATE TABLE test (   id

int(11) NOT NULL,   name

varchar(50) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- Dumping data for table test

INSERT INTO test (id, name) VALUES

(1, 'anees'),

(2, 'rehman');

-- Table structure for table trig

CREATE TABLE trig (   id

int(11) NOT NULL,   hcode

varchar(50) NOT NULL,

normalbed int(11) NOT NULL,

hicubed int(11) NOT NULL,

icubed int(11) NOT NULL,

vbed int(11) NOT NULL,
```

```
querys varchar(50) NOT NULL,

date date NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- Dumping data for table trig

INSERT INTO trig (id, hcode, normalbed, hicubed, icubed, vbed, querys, date) VALUES (1,
'BBH01', 50, 9, 2, 1, ' UPDATED', '2021-11-26'),

(2, 'BBH01', 50, 9, 2, 1, ' DELETED', '2021-11-26'),

(3, 'AA1100', 15, 5, 4, 2, ' INSERTED', '2021-11-26'),

(4, 'AA1100', 15, 10, 8, 2, ' UPDATED', '2021-11-26'),

(5, 'AA1100', 15, 10, 7, 2, ' UPDATED', '2021-11-26'),

(6, 'ARK123 ', 12, 55, 22, 22, ' INSERTED', '2022-01-12'),

(7, 'ARK123', 12, 50, 22, 22, ' UPDATED', '2022-01-12'),

(8, 'ABCD123 ', 11, 15, 4, 20, ' INSERTED', '2022-01-12'),

(9, 'ABCD123', 11, 11, 4, 20, ' UPDATED', '2022-01-12'),

(10, 'ARK123', 12, 50, 21, 22, ' UPDATED', '2022-01-12'),

(11, 'MAT123', 40, 4, 4, 1, ' DELETED', '2022-01-30'),

(12, 'AA1100', 15, 10, 7, 2, ' DELETED', '2022-01-30'),

(13, 'ARK123', 12, 50, 21, 22, ' DELETED', '2022-01-30'),

(14, 'ABCD123', 11, 11, 4, 20, ' DELETED', '2022-01-30');

-- Table structure for table user

CREATE TABLE user (   id

int(11) NOT NULL,   srfid

varchar(20) NOT NULL,   email
```

```
varchar(100) NOT NULL,   dob

varchar(1000) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

-- Indexes for dumped tables

-- Indexes for table bookingpatient

ALTER TABLE bookingpatient

 ADD PRIMARY KEY (id),

 ADD UNIQUE KEY srfid (srfid(20));

-- Indexes for table hospitaldata

ALTER TABLE hospitaldata  ADD

PRIMARY KEY (id),

 ADD UNIQUE KEY hcode (hcode);

-- Indexes for table hospitaluser

ALTER TABLE hospitaluser  ADD

PRIMARY KEY (id);

-- Indexes for table test

ALTER TABLE test

 ADD PRIMARY KEY (id);

-- Indexes for table trig

ALTER TABLE trig

 ADD PRIMARY KEY (id);

-- Indexes for table user

ALTER TABLE user
```

```
 ADD PRIMARY KEY (id),

 ADD UNIQUE KEY srfid (srfid);

-- AUTO_INCREMENT for dumped tables

-- AUTO_INCREMENT for table bookingpatient

ALTER TABLE bookingpatient

 MODIFY id int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=7;

-- AUTO_INCREMENT for table hospitaldata

ALTER TABLE hospitaldata

 MODIFY id int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=7;

-- AUTO_INCREMENT for table hospitaluser

ALTER TABLE hospitaluser

 MODIFY id int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=15;

-- AUTO_INCREMENT for table test

ALTER TABLE test

 MODIFY id int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=3;

-- AUTO_INCREMENT for table trig

ALTER TABLE trig

 MODIFY id int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=15;

-- AUTO_INCREMENT for table user

ALTER TABLE user

 MODIFY id int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=13;

COMMIT;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
```

```
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;

/*!40101 SET
COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION *
/;
```

CHAPTER 5 SNAPSHOTS

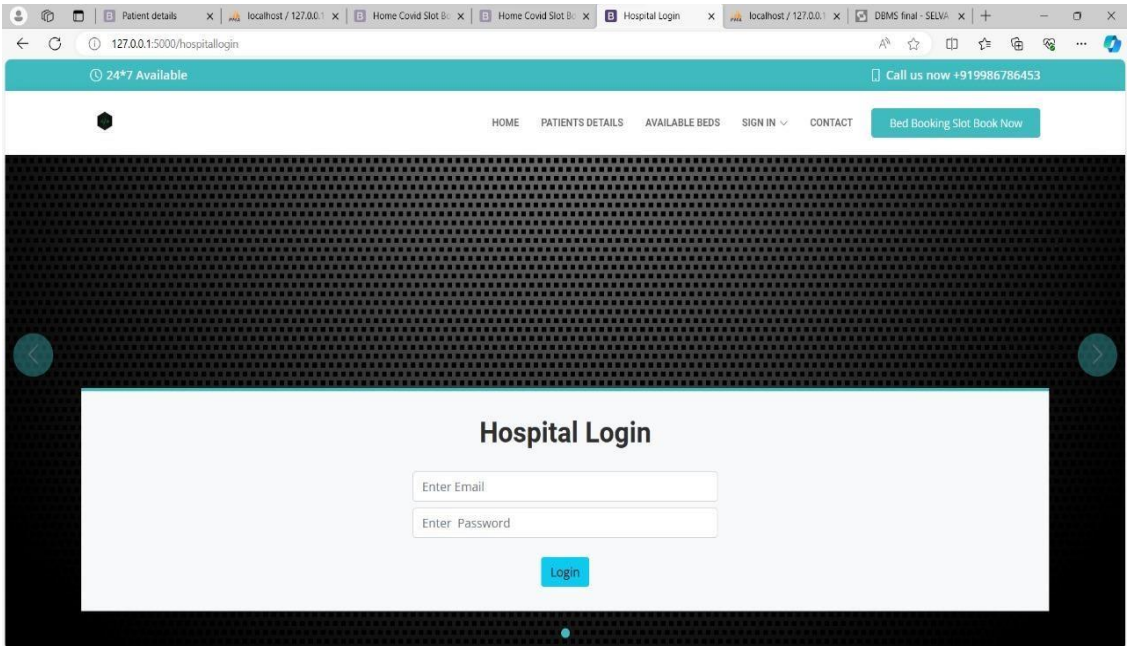


Fig 5.1: Hospital Login Page

Figure 5.1 shows the login page of the hospital bed management system.

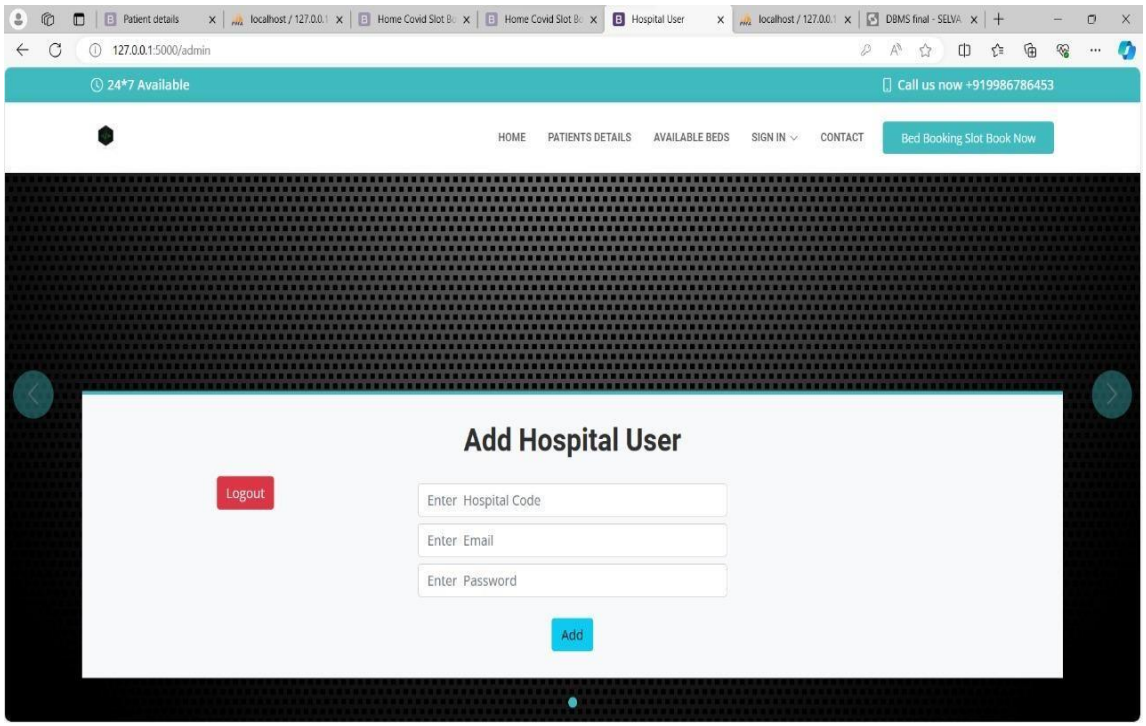


Fig 5.3: Hospital user page

Figure 5.3 shows the hospital users page of the hospital bed management system.

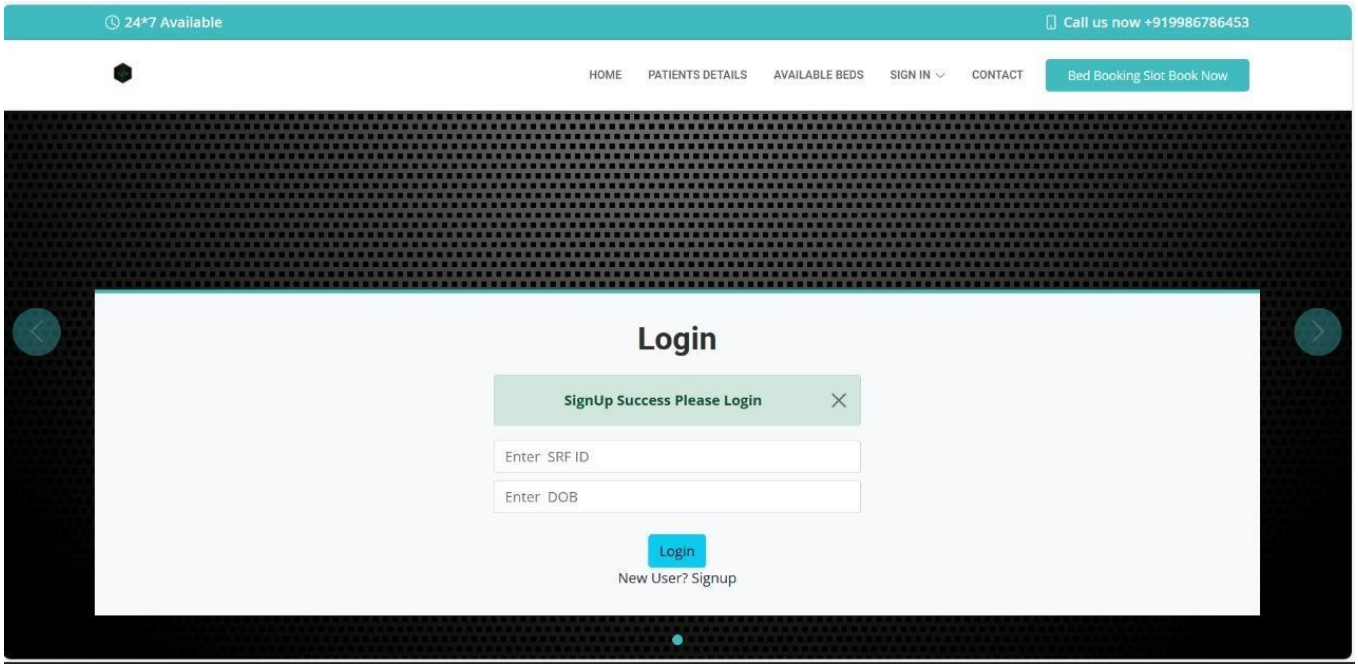


Fig 5.4: User Login Page

Figure 5.4 shows the User login page of the hospital bed management system.

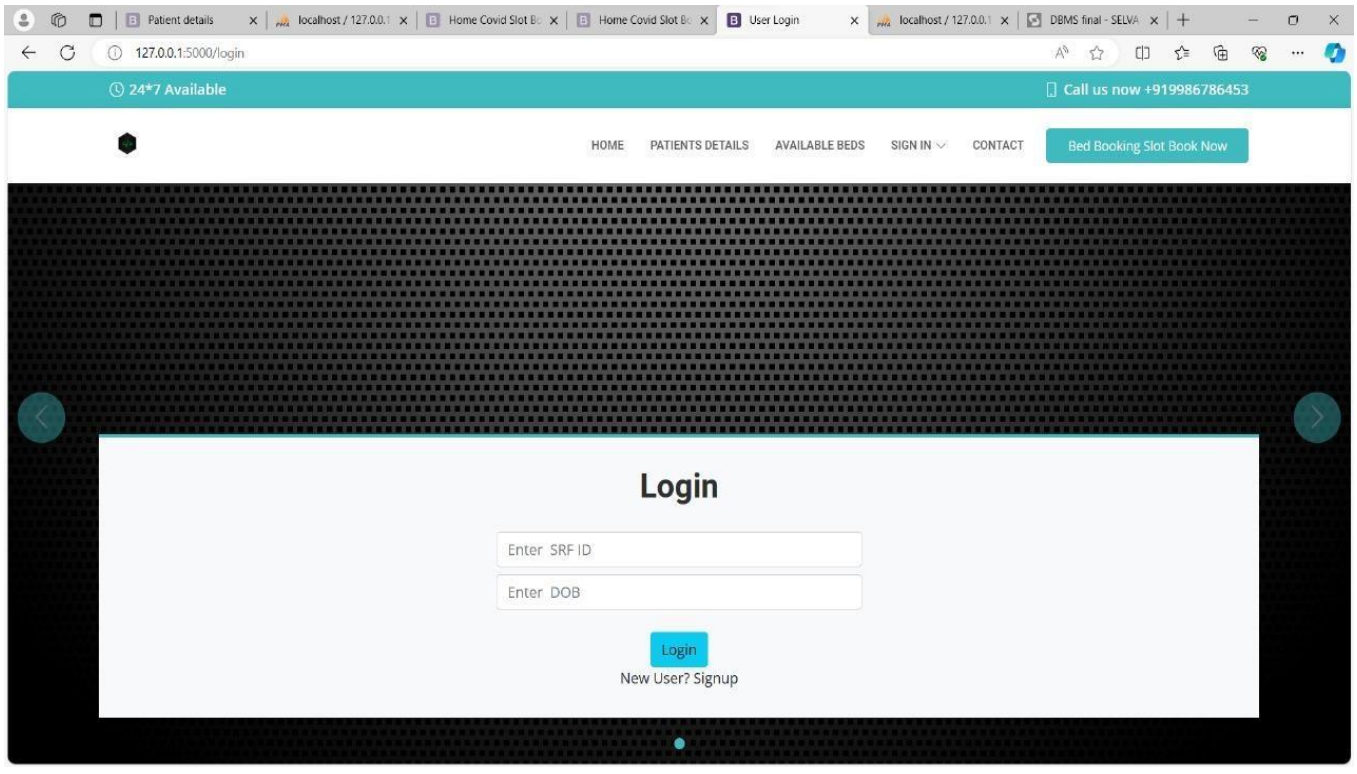


Fig 5.5: User Login Page

Figure 5.5 shows the User login page of the hospital bed management system

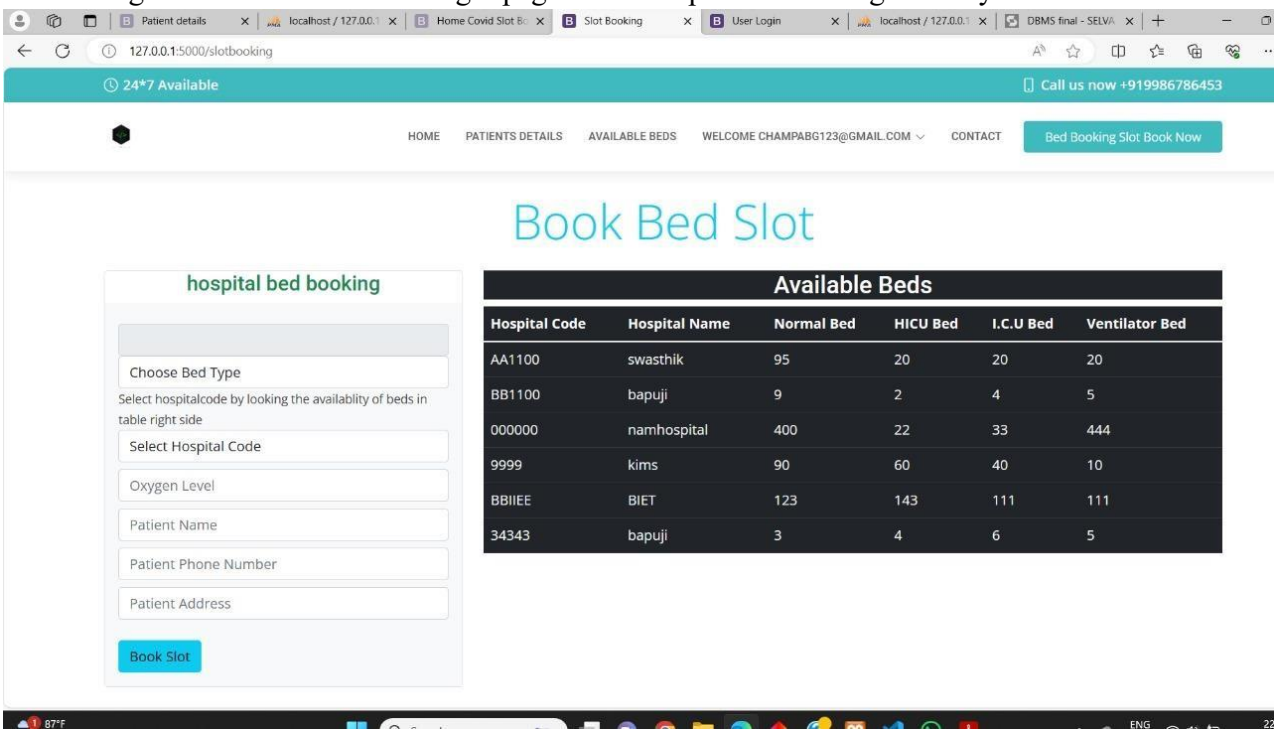


Fig 5.6: book bed slot

Figure 5.5 shows the bed booking of the hospital bed management system

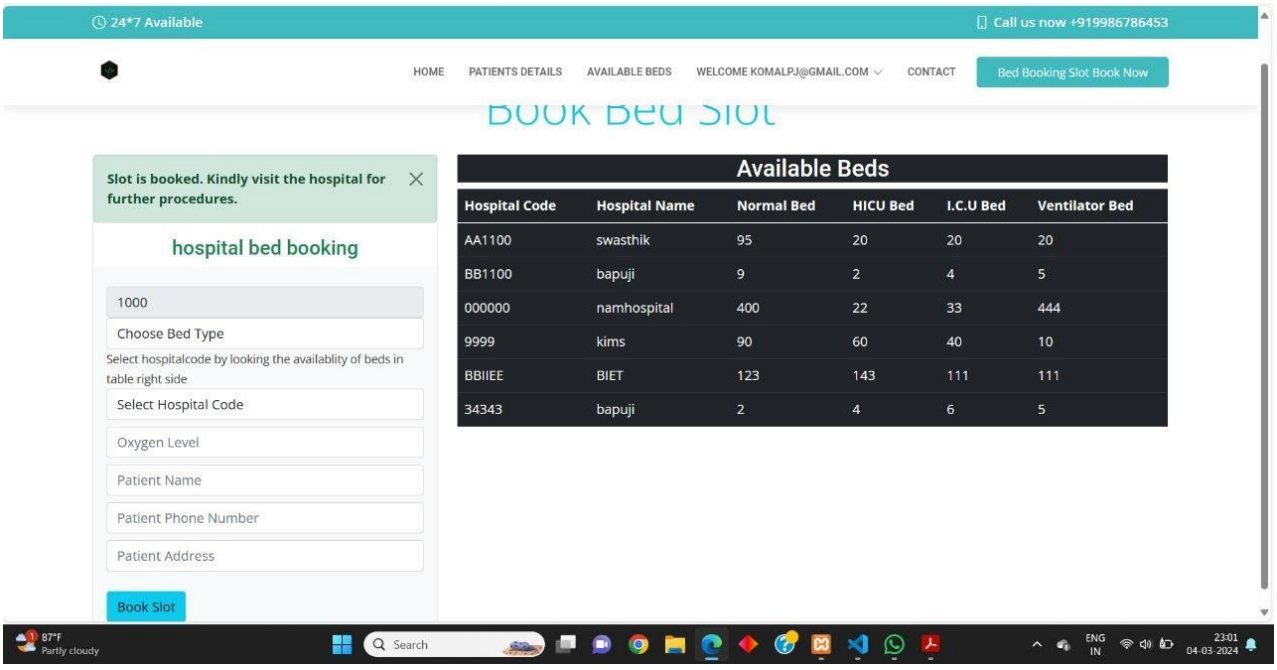


Fig 5.7: bed slot booking succesfull

Figure 5.5 shows the bed booking succesfull of the hospital bed management system

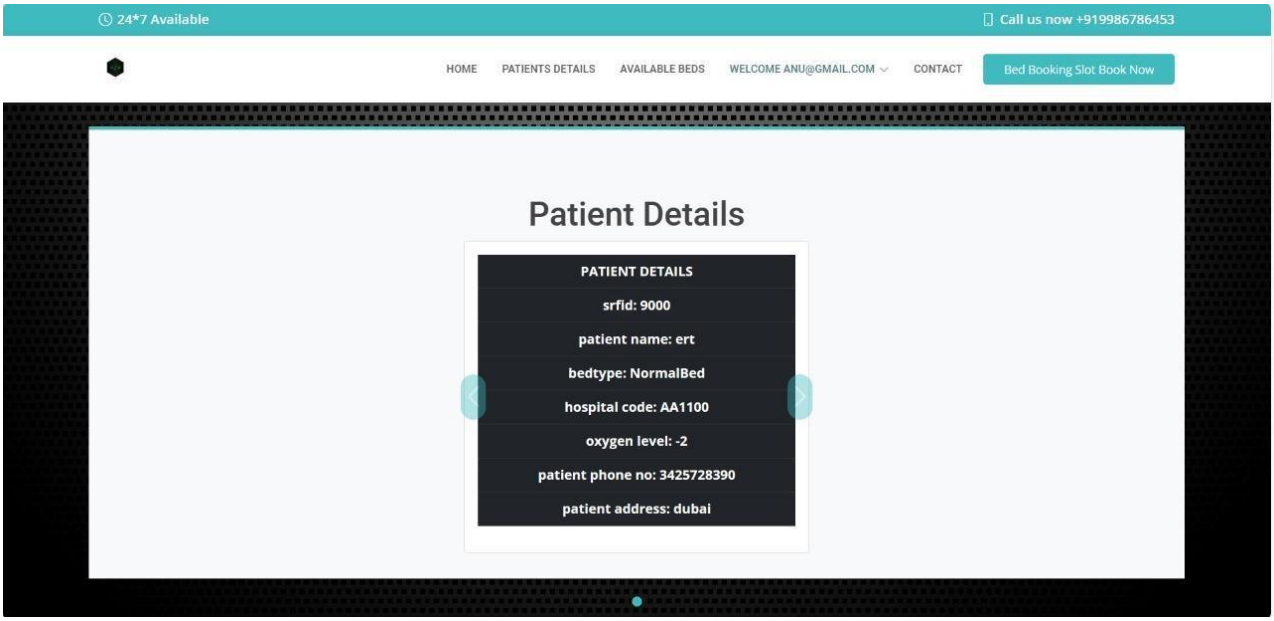


Fig 5.8: patient details

Figure 5.5 shows the patient details of the hospital bed management system

CONCLUSION

The project Hospital management system is for computerizing and for outreach of making the bed available to the infected user or patient and vaccination related queries. The computerization of the system has speed up the process. In present circumstances the management system is very hectic, confusing and a lot of mistakes can be made. The Hospital management system was thoroughly checked and run along with duplicate data and thus is found to be very reliable. This software takes care of all the requirements. The system also provides the option for backing up all the information available on the system. HOSPITAL BED SLOT BOOKING SYSTEM successfully implemented based on online data filling which helps us in administering the data user for managing all the details related to the covid disease including the vaccination details and successfully allotting beds to the user. The project successfully used various functionalities of Xampp and python flask and also created the fully functional database management system for online portals. Using MySQL as the database is highly beneficial as it is free to download, popular and can be easily customized. The data stored in the MySQL database can easily be retrieved and manipulated according to the requirements with basic knowledge of SQL.

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