

# **PROJECT TITLE**

## **CITYHEALTHCARE**

### **PORTAL**

Submitted in partial fulfilment of the requirements of  
**PG Diploma in Advanced Computing**

By

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Guide:

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**Centre for Development of Advanced Computing**

**Infoway pune**

**March 2022**

## CERTIFICATE

This is to certify that the project entitled “**CityhelthCare Portal**” is a bonafide work of “**Avinash kadam (220343120019), Akshay Shide(220343120008), Narayan Pratap Singh Rawat (220343120064), Pradhyumna Sutar(220343120079)**”, submitted to C-DAC Pune in partial fulfilment of the requirement for the award of the Post Graduate Diploma in Advanced Computing.

(Name)

Supervisor/Guide

(Name)

Faculty Supervisor/Guide

## Declaration

I declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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Date : 26/09/2022

# **Abstract**

Cityhealthcare portal aims at to develop the software that covers all the aspects of management and operations of hospital. So, with the victim and proof of corona pandemic situation we are introducing this project. So, if further in future again pandemic situation like corona comes into human life at that time this software will help the peoples a lot in the procedure of finding facilities. This software enables the health providers to provide the operational health care availability, reduce time consumption and enhance delivery of quality of care.

The main purpose of our project is to make hospital related task easy and saves the time of public while searching health care facilities. This project maintains helps to maintains the details of hospital related queries (like oxygen availability, Bed availability etc.) With this software people can get the information of nearby hospital location wise wherever they are.

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## List of Abbreviations

Sr. No.	Abbreviation	Expanded form
I	E-R	Entity Relationship

# Chapter 1

## Introduction

The project “**CITYHEALTHCARE PORTAL**” includes registration of user , storing their details into the system, storing hospital information details into the system and providing user , admin, hospital details interfaces. The application has facilities to store and provide the details of hospital records of the requirements (for e.g.: Oxygen, Bed, Ventilator, Blood Availability in the hospital). It includes the search facility to know the status of each hospital. User can search details by login in the application. The hospital management can be entered by using their unique id and password and provide the details to the admin. The entry of data can be Updated by only Admin. Admin can only update and delete the data from database . user can search hospital By location wise in their zone. The data are well protected and for personal use and makes the data processing very fast. Cityhealthcare portal is efficient flexible and easy to use and is designed and develop to deliver benefits to the user.

The Cityhealthcare portal application is designed for the peoples during the pandemic condition like Covid19. If there comes again situation like corona, in that situation our portal will help the people to find out the proper hospital details during need according to emergency. The user can find out the details by easily accessing this application. It improves the life expectancy and it provides the good time management during that situation.

### 1.1 Description

This project **Cityhealthcare portal** aims at to develop the software that covers all the aspects of management and operations of hospital. So, with the victim and proof of corona pandemic situation we are introducing this project. So, if further in future again pandemic situation like corona comes into human life at that time this software will help the peoples a lot in the procedure of finding facilities. This software enables the health providers to provide the operational health care availability, reduce time consumption and enhance delivery of quality of care. The main purpose of our project is to make hospital related task easy and saves the time of public while searching health care facilities. This project maintains helps to maintains the details of hospital related queries (like oxygen availability, Bed availability etc.) With this software people can get the information of nearby

hospital location wise wherever they are. Since Hospitals are associated with the lives of common people and their day-to-day routines so we decided to work on this project.

During pandemic situations like Covid19 peoples are in very dangerous condition like if they want to go in the hospital but they don't know the actual condition of hospital. In that condition they get to face many issues like taking admission into hospital and availability of hospital details and they are moving from hospital to hospital, because of that more deaths are occur, many damages has to faces by the public. That all situations occur due to lack of time management. We tried to reduce all above problems by using this application. Now if pandemic situation comes then in that condition people can fine out the details of hospital facilities in emergency by easy access. It can reduce the time and giving proper and early treatment to the patient. By using this we can save many lives during the pandemic.

## **1.2 Motivation**

### **1 Easy Access to Hospital Data**

One of the main advantages of hospital management software is easily available hospital data to the user. It is only a matter of few clicks and all the required information about a hospital, from various departments in the hospital, can be available on the screen.

### **2 Cost Effective**

Well-Implemented clinic management system reduces a lots of time and money during finding the information and its free to access to the public.

### **3 Improved Efficiency**

This app improves efficiency by reducing the time during the emergency. We ca make the proper time management during the emergency situation.

### **4 Data Security**

All the important data and information will store on the server, data can only manipulate by admin only. No one can else modify the data.

### **5 Improved Patient Care**

By using this application we can know the situation aof hospital and give proper treatment to the patient in emergency condition.

### 1.3 Scope

Cityhealthcare Portal is a web portal which is helpful for the individuals who are in medical emergency, this portal will provide some important necessary features to the user to access or fulfil their medical emergency needs such as booking beds, booking of blood , oxygen availability into the hospital. The purpose of this project is to. Currently, as we know during the Covid-19 pandemic the patients and their had to face many problems to get a proper treatment from the hospitals as there was lack of bed, oxygen, blood availability even the nearest hospitals were full, and the patients have to travel far away from their home . This Cityhealthcare Portal will ease the life and headache of peoples and their relatives to books emergency services as early as possible and reach the nearest best suitable or selected Emergency treatment providing hospitals. However, there will also be an additional benefit for the individual to take necessary steps for curing their loved ones from emergency situations. In this project there will be three roles admin, user and hospital administration. The user will be directly contacting to the hospital administration for booking (as per requirement of their needs such as to choose hospital and select services accordingly ) or get information. The hospital administration will accept the user request if they have the availability of needful services which the user require. As per the current situation, the society needs all sort of medical helps in easiest way, because their various kinds of medical issues to the users and they know only some basic information about the hospitals from which they are going to take treatment but in an emergency they are not able to decide, to which hospital they should go and take the treatment so to make this need ease this portal will provide all the basic info to the user about the Doctors and all the facilities provided by the hospital. There will be admin role who will or accept or take the hospital actions such as availability of beds , oxygen etc. The admin will also add Hospital and to update the hospital information about the services which they provide.

## **Chapter 2**

### **System Analysis**

#### **2.1 Functional Requirements**

##### **2.1.1 Login for Hospital**

- System allows Hospitals to add bed details, add blood details and add oxygen availability details
- System allows Hospitals to view the request and take action over the request i.e.. Accept or Reject the request for beds.

##### **2.1.2 Login for User**

- System allows Users to view bed availability at Hospitals and book bed according to their need.
- System allows User to view Blood , Oxygen Availability Details of various hospitals and also can view specialist doctor available and can get ambulance contact details for the hospital.

##### **2.1.3 Login for Admin**

- System allows admin to register the hospital for the portal.
- System allows admin to check registered hospitals list.
- System allows admin to check registered users list.

## **2.2 Non-functional Requirements**

### **2.2.1 Performance Requirements**

The system should store all the database records of each user , hospital and admin staff properly and the application should be available for use 24\*7 through the server. Also, the application should be user friendly with a proper user interface which makes it easy for the user to understand. All the options should be present in properly accessible places for user convenience.

All login ids and passwords of the Admin, User, Hospital Operator should be protected for privacy using whatever constraints required in the database or the application.

### **2.2.2 Safety Requirements**

All login ids and passwords of the Admin, Doctor, Hospital and User should be protected for privacy using whatever constraints required in the database or the application. The system requires the individual to acknowledge the person making use of the phone. Any adjustments like insert, erase, update, etc. for the data source can be integrated promptly as well as executed only by Admin. The Admin can alter any kind of information in the Hospital Management System.

### **2.2.3 Security Requirements**

Passwords of the Admin, Hospital and User should be protected for privacy using whatever constraints required in the database or the application. Transactions regarding User and Hospital records should be carried out properly. The system shall protect the data and service from unauthorized access. The system shall also provide authentication and secure transaction.

#### **2.2.4.1 Availability**

The system should run on a variety of operating systems that support the JavaScript language. The system should run on a variety of hardware.

#### **2.2.4.2 Accessibility**

The software will be accessible to Admin, Hospital and User.

#### **2.2.4.3 Compatibility**

The software will be compatible with multiple platforms.

#### **2.2.4.4 Durability**

The software will be tested for working with multiple users and records as system has to manage multiple users and records (hospital details).

#### **2.2.4.5 Effectiveness**

The software will be made to handle operations effectively. The system should provide good quality and be error free.

#### **2.2.4.6 Maintainability**

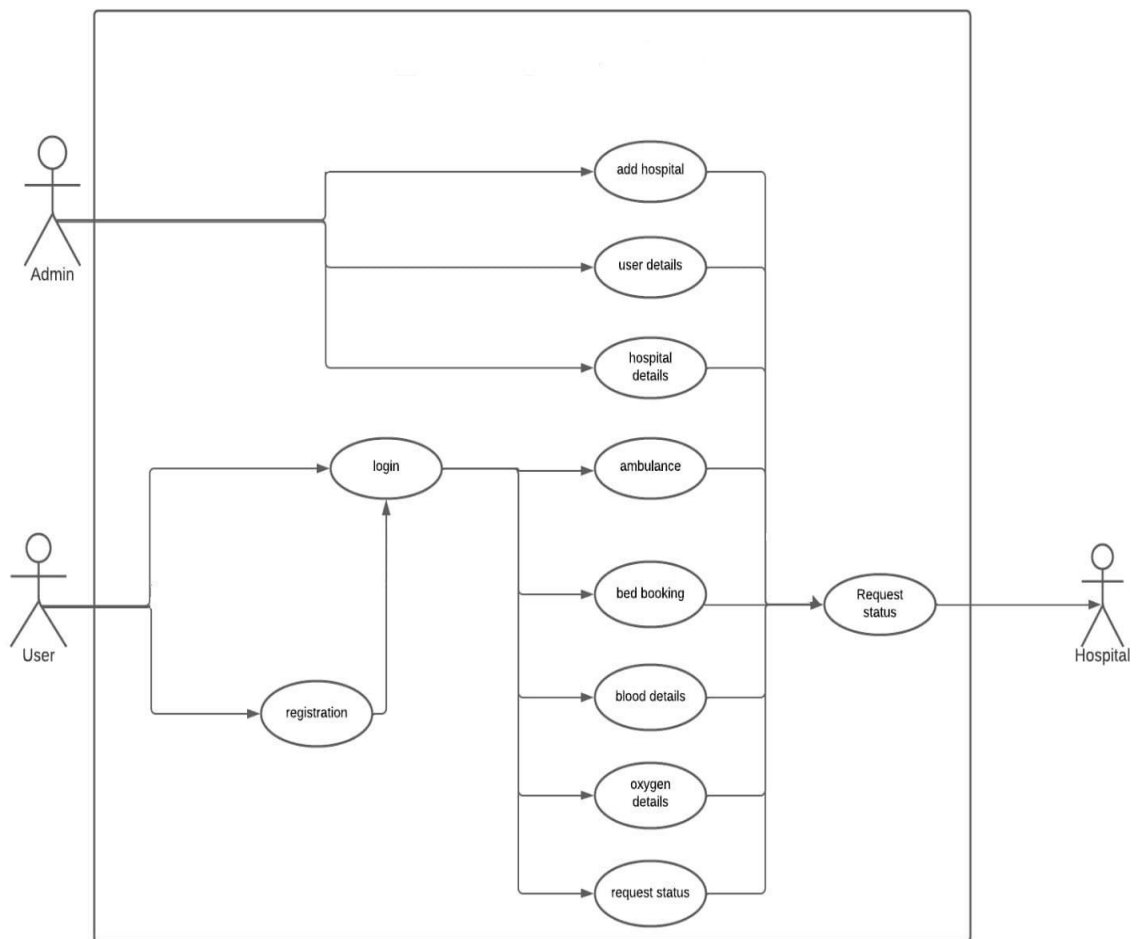
The system should be easy to maintain. There should be a clear separation between the interface and the business logic code. There should be a clear separation between the data access objects that map the database and the business logic code.



# Chapter 3

## Analysis Modelling

### 3.1 Use Case Diagram



**Figure 1.1 Use Case Diagram**

```

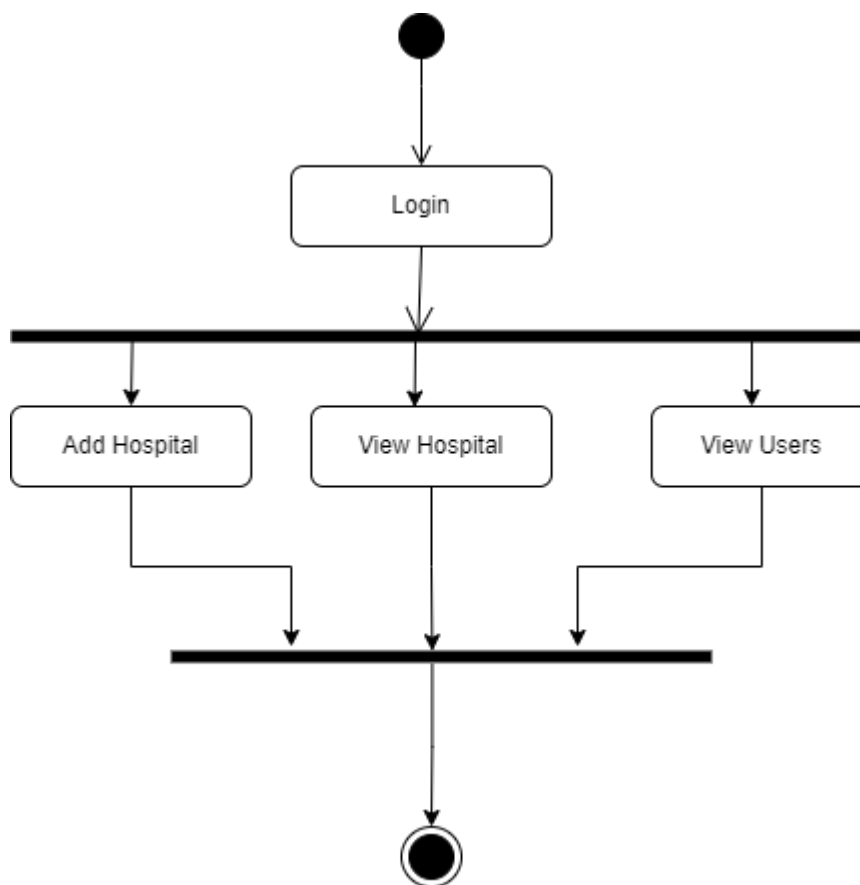
classDiagram
    class JpaRepository {
        <>
    }
    class HospitalRepository {
        <interface>
        +findByEmail(String email): Optional
        +updateBed(int vent, int oxy, int nor): int
        +updateBlood(int id, int a_pos, int a_neg, int b_pos, int b_neg, int ab_pos, int ab_neg, int o_pos, int o_neg): int
        +updateOxygen(int id, int oxygenavailable): int
        +findByHospitalname(String hosname): Hospital
    }
    class AdminRepository {
        <interface>
        +findByEmail(String email): Optional
    }
    class UserRepository {
        <interface>
        +findByEmail(String email): Optional
    }
    class DoctorinfoRepository {
        <interface>
        +findByHospital(Hospital hospital): List<Doctorinfo>
    }
    class RequestRepository {
        <interface>
        +findByHospital(Hospital hospital): List<Request>
        +findByHospital(Hospital hospital): List<Request>
        +getPendingRequest(Hospital hospital): List<Request>
        +updateRequest(int reqid, String status): int
    }
    class UserServiceIntf {
        <interface>
        +saveUser(User user): User
        +getAllUser(): List<User>
        +findAmbulanceContactById(int hospid): Hospital
        +findAllByHospitalId(int hospid): Hospital
    }
    class DoctorinfoServiceIntf {
        <interface>
        +getAllDoctorinfos(int hospid): List<Doctorinfo>
        +getAllDoctorinfosByName(String hosname): List<Doctorinfo>
    }
    class RequestServiceIntf {
        <interface>
        +getAllRequest(): List<Request>
        +getAllPendingRequest(int hospid): List<Request>
        +getAllRequestByHospital(int hospid): List<Request>
        +getAllRequestByUser(int userid): List<Request>
        +updateRequestAccepted(int reqid): void
        +updateRequestRejected(int reqid): void
        +findRequestById(int reqid): Request
    }
    class HospitalServiceImpl {
        -hospitalRepository: HospitalRepository
        -doctorinfoRepository: DoctorinfoRepository
        +getOxygenByHospitalname(String hosname): Hospital
        +getBloodByHospitalname(String hosname): Hospital
        +getBedByHospitalname(String hosname): Hospital
        +updateOxygen(Hospital hosp, int id): void
        +updateBlood(Hospital hosp, int id): void
        +updateBed(Hospital hosp, int id): void
        +getAllHospital(): Hospital
        +getHospitalById(int id): Hospital
        +savedoctorinfo(Doctorinfo doctorinfo, int id): Doctorinfo
        +savehospital(Hospital hosp): Hospital
    }
    class UserServiceImpl {
        +userRepository: UserRepository
        +hospitalRepository: HospitalRepository
        +saveUser(User user): User
        +findAmbulanceContactById(int hospid): Hospital
        +findAllByHospitalId(int hospid): Hospital
        +getAllUser(): List<User>
    }
    class DoctorinfoServiceImpl {
        +hospitalRepository: HospitalRepository
        +doctorinfoRepository: DoctorinfoRepository
        +getAllDoctorinfosByName(String hosname): List<Doctorinfo>
        +getAllDoctorinfos(int hospid): List<Doctorinfo>
    }
    class RequestServiceImpl {
        -requestRepository: RequestRepository
        -hospitalRepository: HospitalRepository
        +findRequestById(int reqid): Request
        +updateRequestRejected(int reqid): void
        +updateRequestAccepted(int reqid): void
        +getAllRequestByUser(int userid): List<Request>
        +getAllRequestByHospital(int hospid): List<Request>
        +getAllPendingRequest(int hospid): List<Request>
        +getAllRequest(): List<Request>
    }

    JpaRepository <|-- HospitalRepository
    JpaRepository <|-- AdminRepository
    JpaRepository <|-- UserRepository
    JpaRepository <|-- DoctorinfoRepository
    JpaRepository <|-- RequestRepository
    HospitalRepository ..> HospitalServiceImpl
    AdminRepository ..> AdminRepositoryImpl
    UserRepository ..> UserServiceImpl
    DoctorinfoRepository ..> DoctorinfoServiceImpl
    RequestRepository ..> RequestServiceImpl
    UserServiceIntf ..|.. UserServiceImpl
    DoctorinfoServiceIntf ..|.. DoctorinfoServiceImpl
    RequestServiceIntf ..|.. RequestServiceImpl
    HospitalRepository "1" -- "*" HospitalServiceImpl : 
    AdminRepository "1" -- "*" AdminRepositoryImpl : 
    UserRepository "1" -- "*" UserServiceImpl : 
    DoctorinfoRepository "1" -- "*" DoctorinfoServiceImpl : 
    RequestRepository "1" -- "*" RequestServiceImpl : 
    HospitalRepository "1" -- "*" HospitalServiceImpl : 
    AdminRepository "1" -- "*" AdminRepositoryImpl : 
    UserRepository "1" -- "*" UserServiceImpl : 
    DoctorinfoRepository "1" -- "*" DoctorinfoServiceImpl : 
    RequestRepository "1" -- "*" RequestServiceImpl : 
    
```

### Figure 1.2 Class Diagram

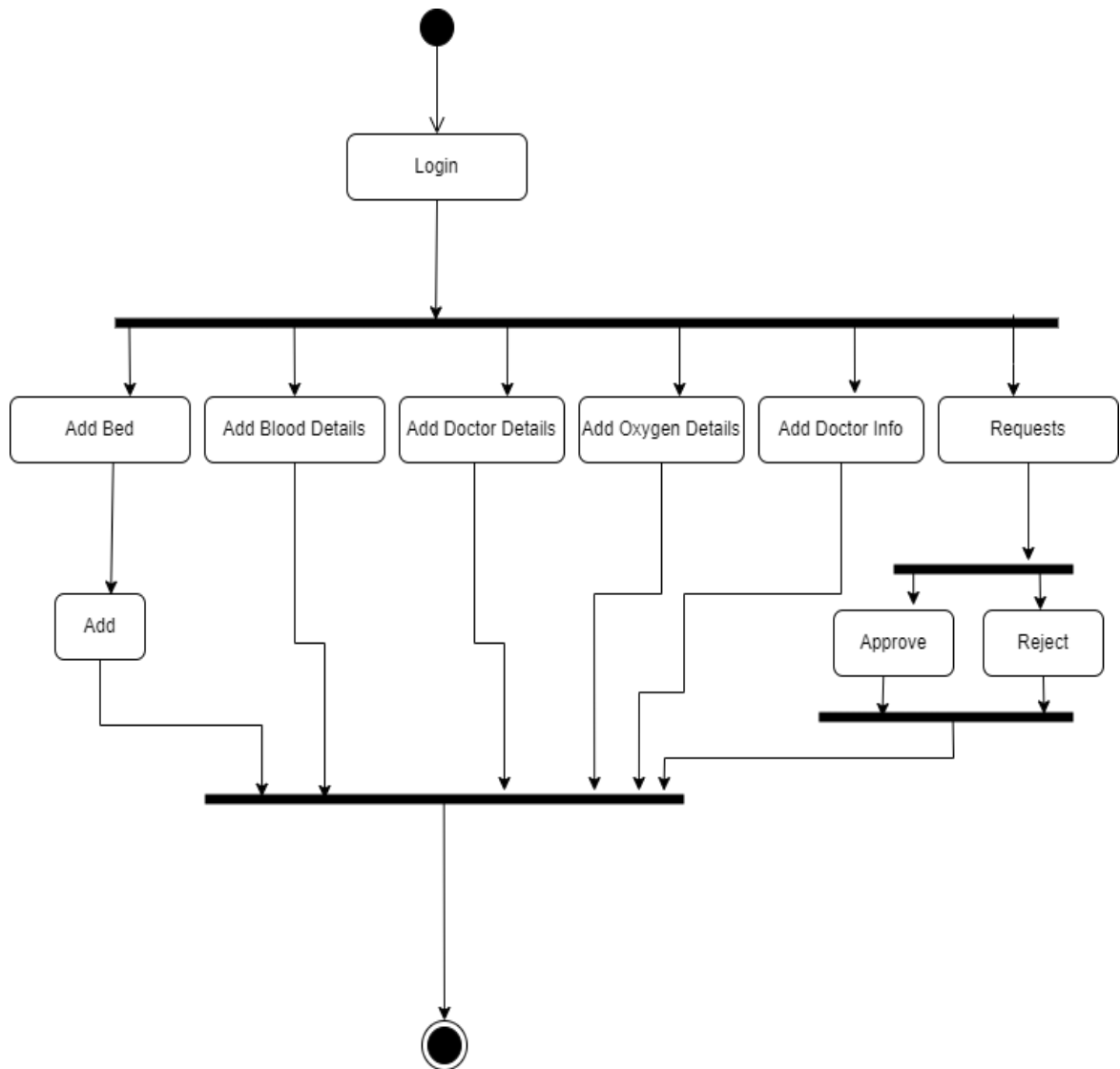
### 3.3 Activity Diagram

- Admin



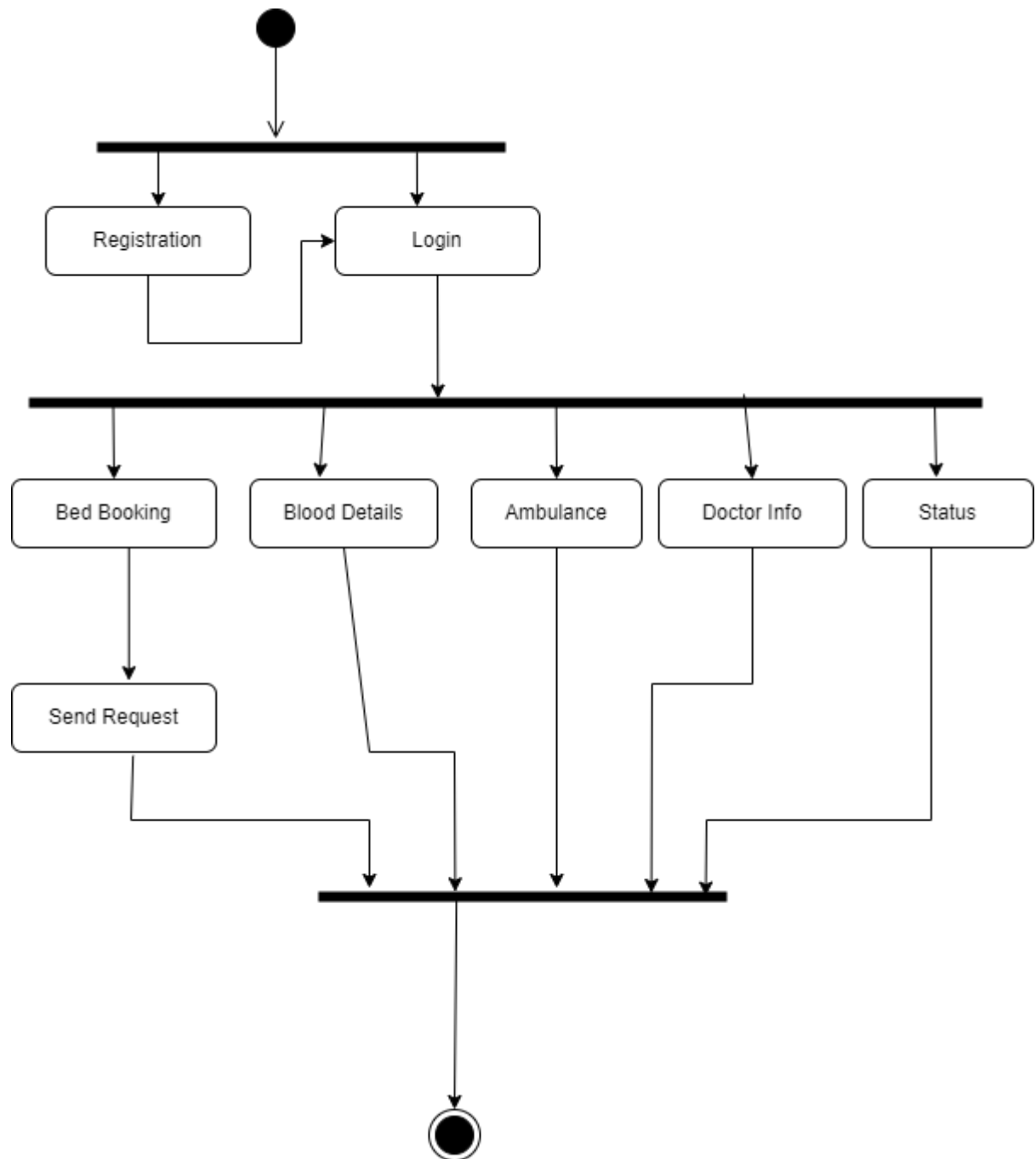
**Figure 1.3.1 Admin Activity Diagram**

- **Hospital**



**Figure 1.3.2 Hospital Activity Diagram**

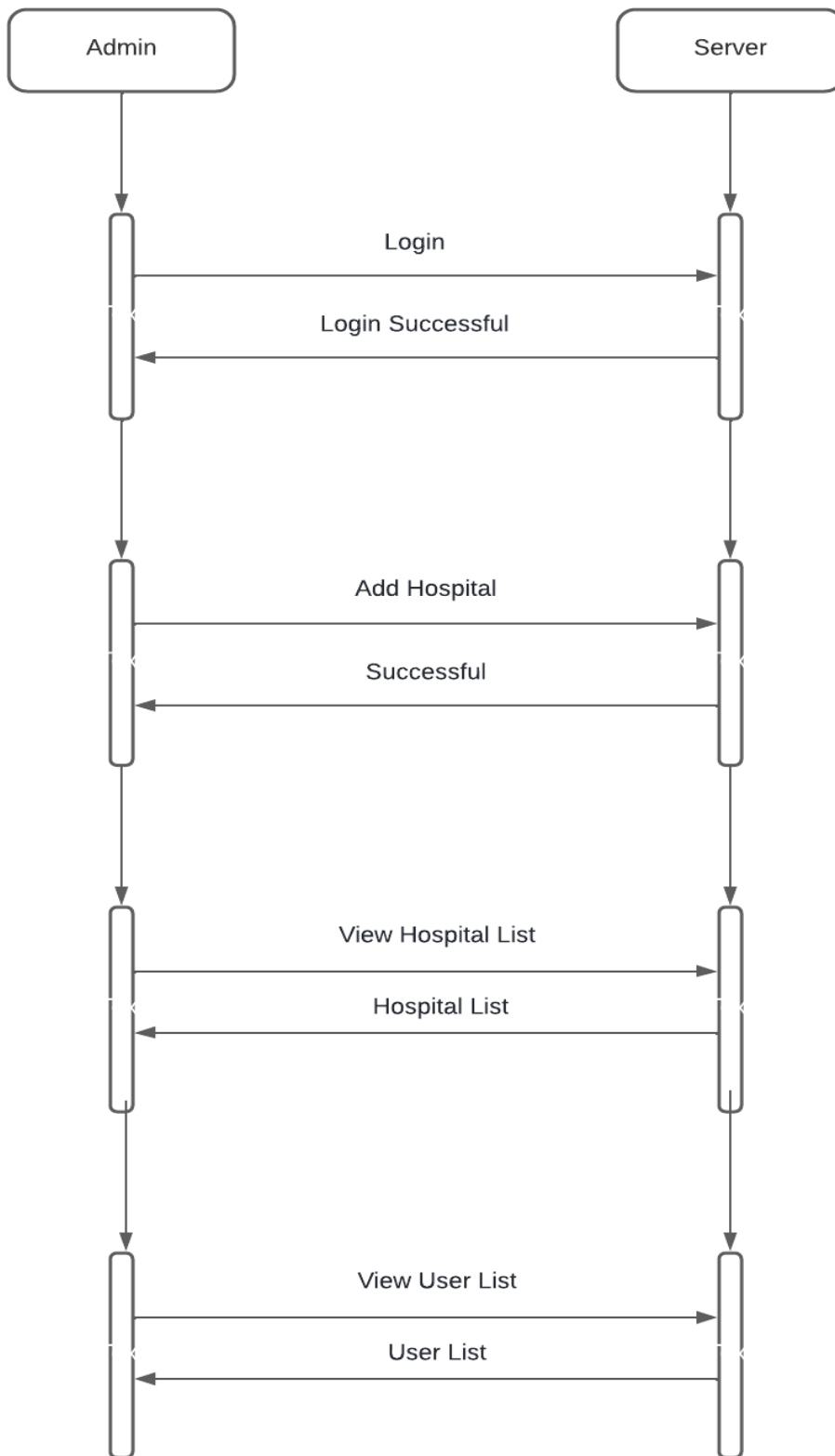
- User



**Figure 1.3.3 User Activity Diagram**

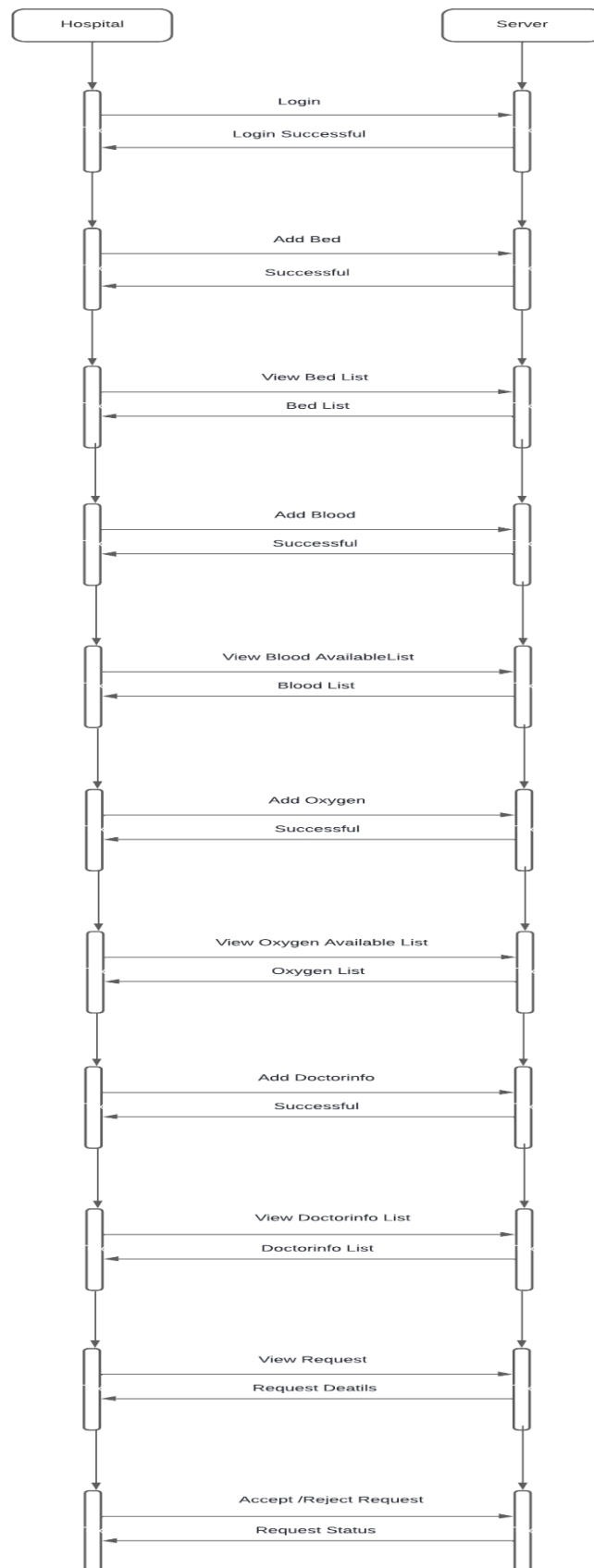
## 4.4 Sequence Diagram

- Admin



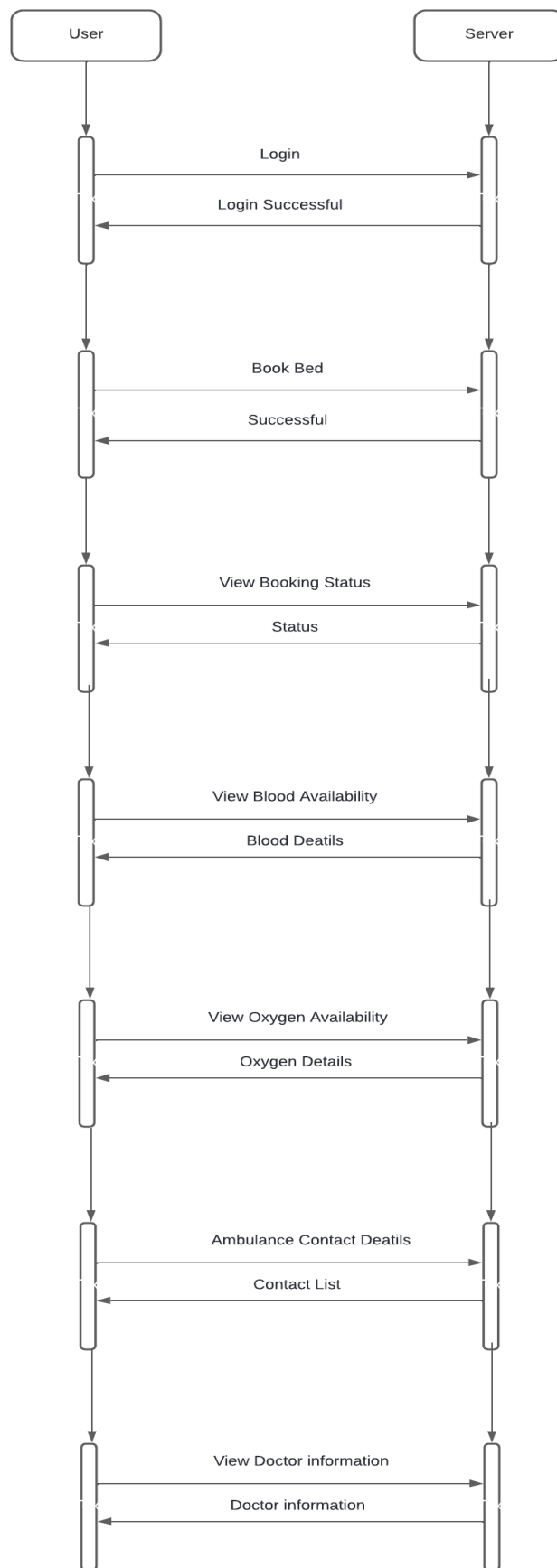
**Figure 1.4.1 Admin Sequence Diagram**

- Hospital



**Figure 1.4.2 Hospital Sequence Diagram**

- User



**Figure 1.4.3 User Sequence Diagram**



# Chapter 4

## Design

### E-R Diagram

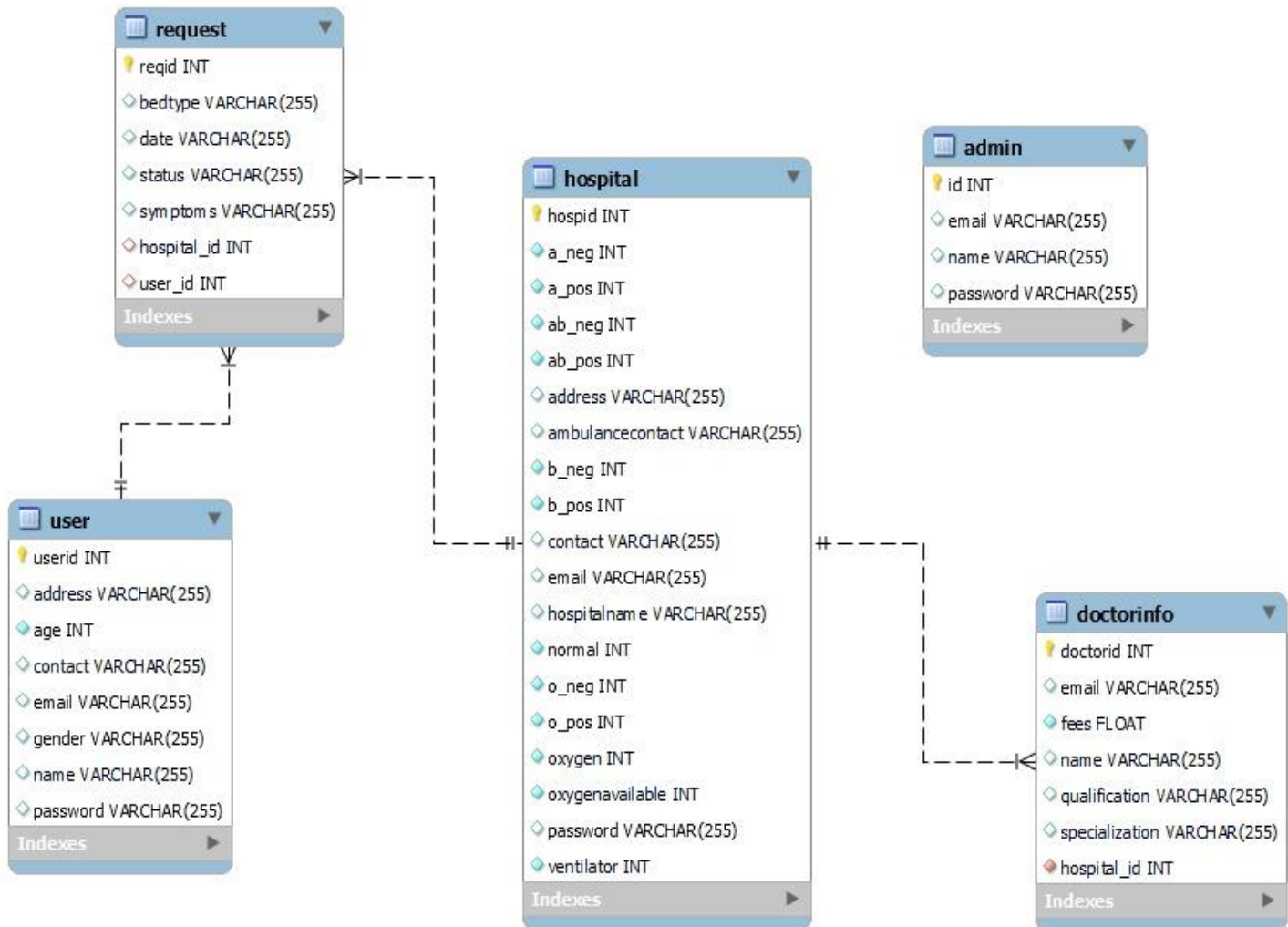
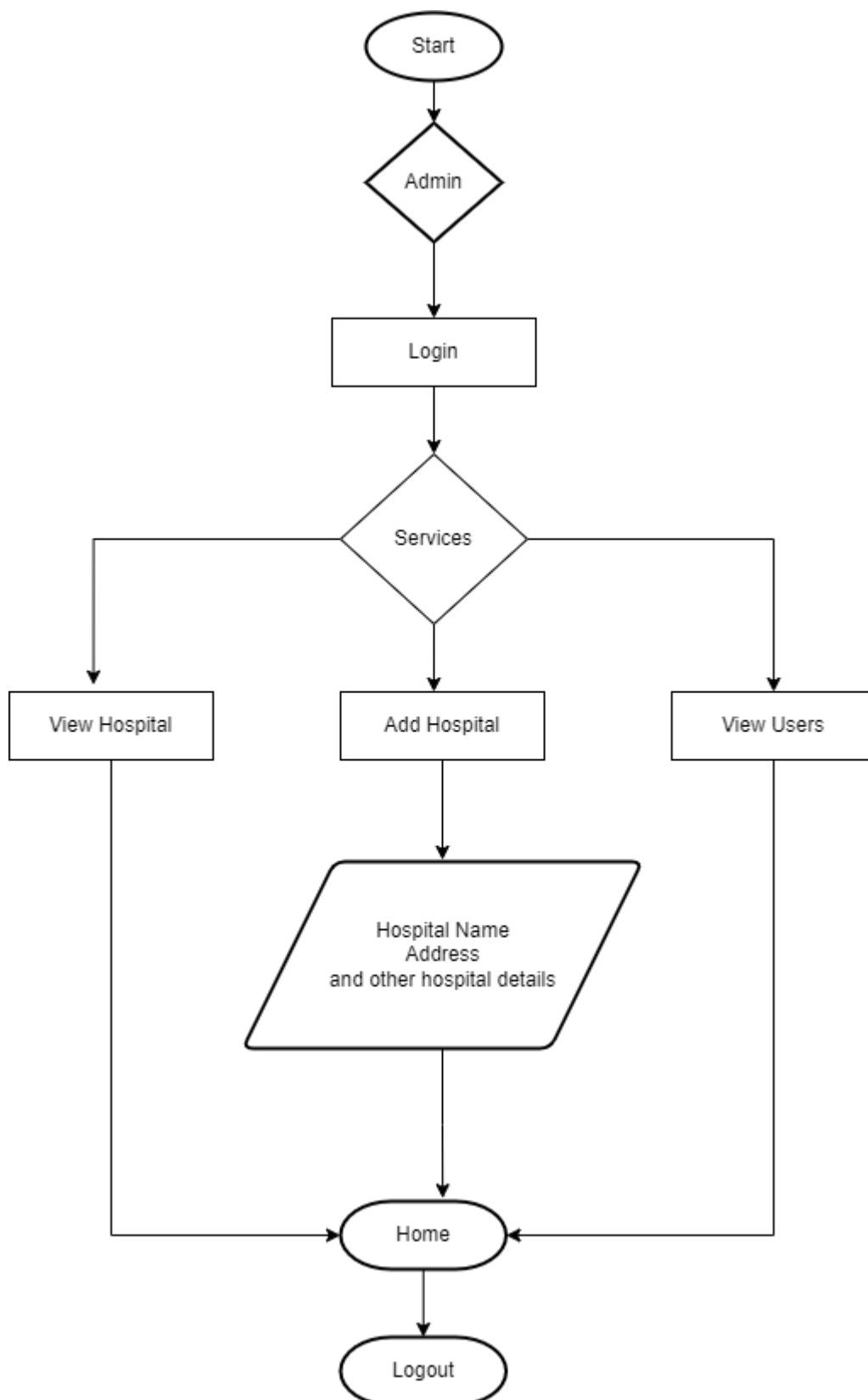


Figure 1.5.1 E-R Diagram

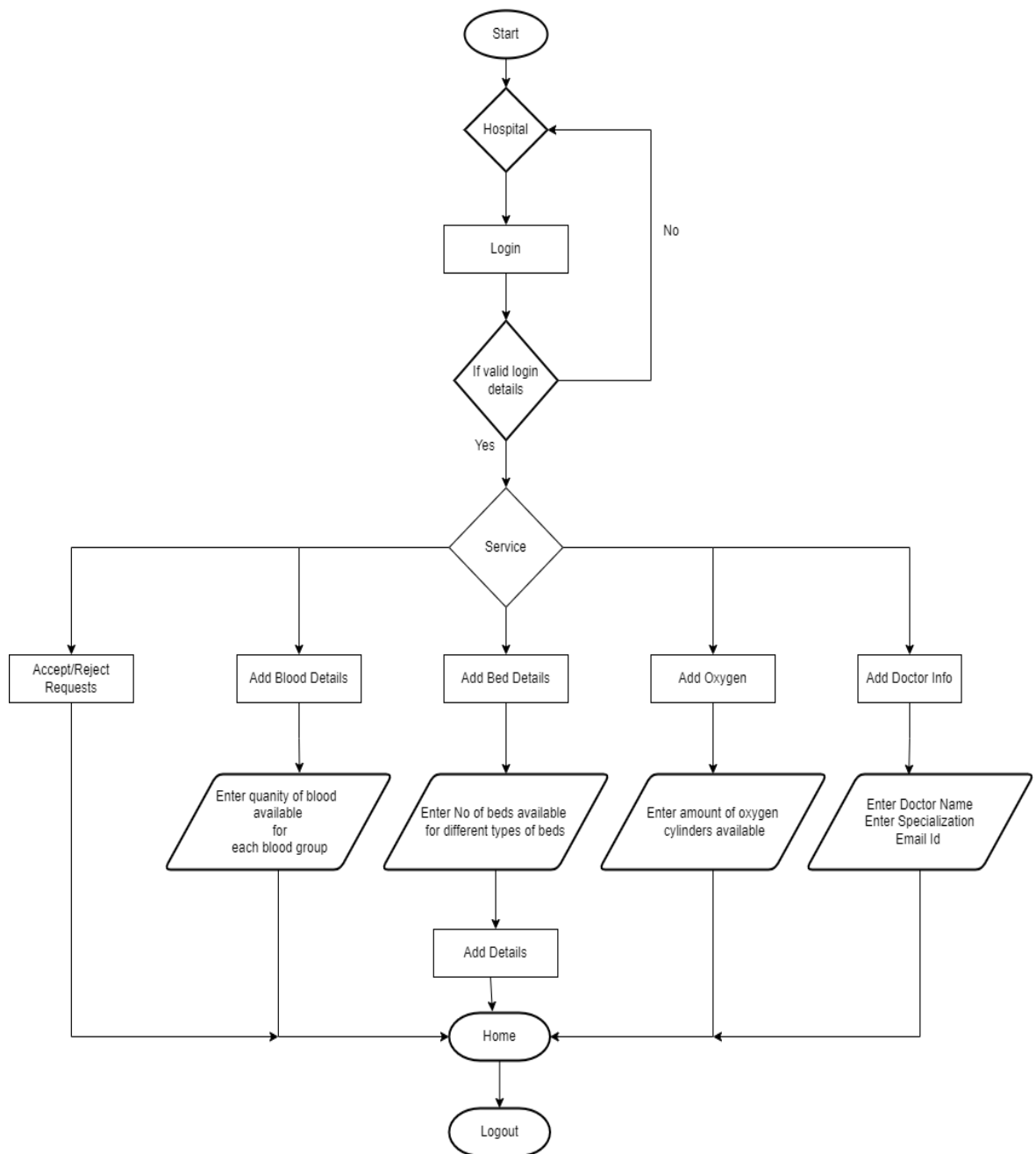
## 4.1 Architectural Design

- Admin



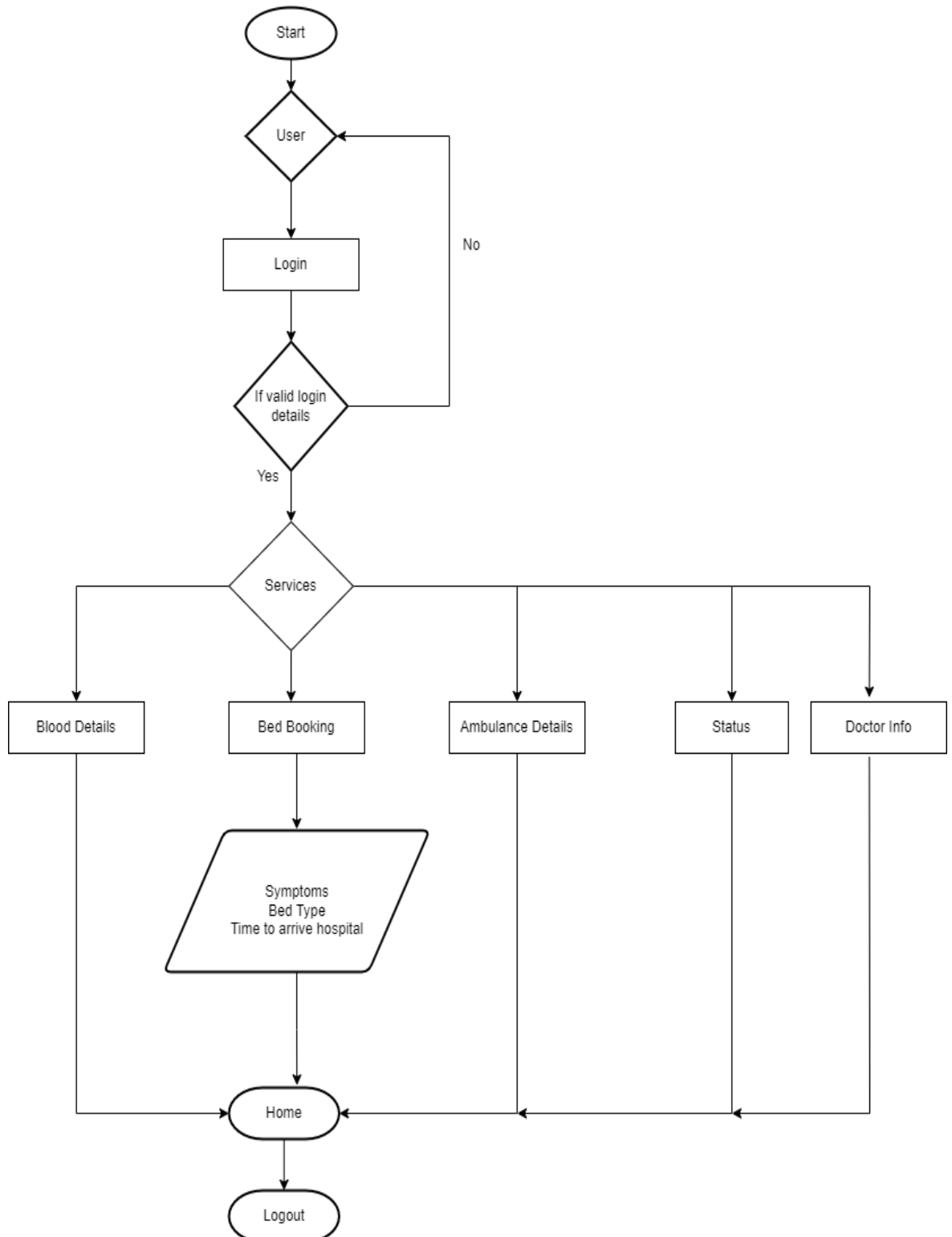
**Figure 1.5.2.1 Admin Flow Diagram**

- **Hospital**



**Figure 1.5.2.2 Hospital Flow Diagram**

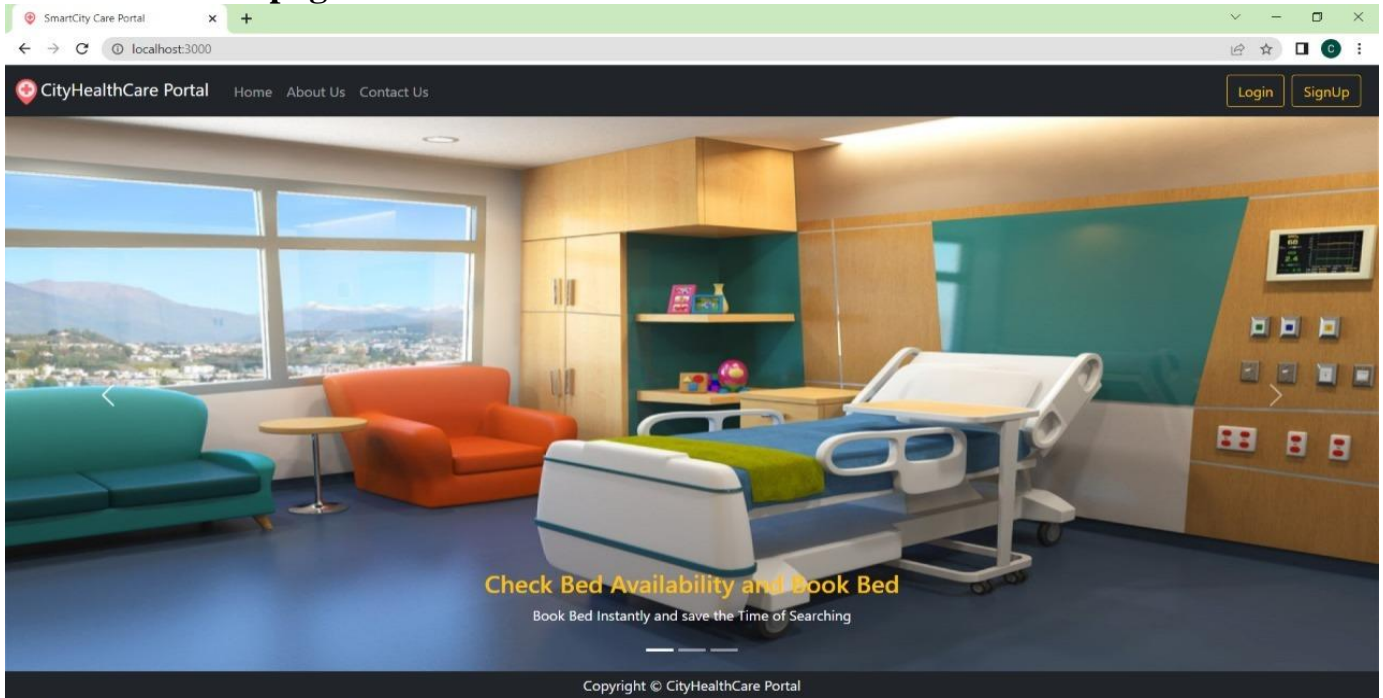
- **User**



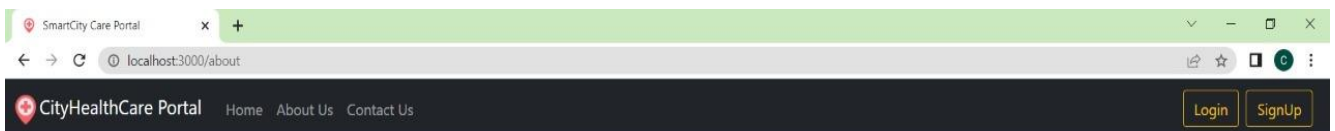
**Figure 1.5.2.3 User Flow Diagram**

## 4.2 User Interface Design

- **Homepage**



- **About Us**



### About Us

#### City Health Care Portal

This project city health care portal aims at to develop the software that covers all the aspects of management and operations of hospital. So, with the victim and proof of corona pandemic situation we are introducing this project. So, if further in future again pandemic situation like corona comes into human life at that time this software will help the peoples a lot in the procedure of finding facilities. This software enables the health providers to provide the operational health care availability, reduce time consumption and enhance delivery of quality of care. The main purpose of our project is to make hospital related task easy and saves the time of public while searching health care facilities. This project maintains helps to maintains the details of hospital related queries (like oxygen availability, Bed availability etc.) With this software people can get the information of nearby hospital location wise wherever they are.

#### Our Team



Avinash Kadam



Akshay Shinde



Pradyumna Sutar



Narayan Rawat

- **Signup**

SmartCity Care Portal

localhost:3000/usersignup

CityHealthCare Portal Home About Us Contact Us Login SignUp

### User Registration

Back

Full Name

Email

Password

Gender ☐ Male ☐ Female ☐ Other

Contact

Age

Address

Accept Terms and Conditions ☐

SIGN UP

Copyright © CityHealthCare Portal

- **Login**

SmartCity Care Portal

localhost:3000/login

CityHealthCare Portal Home About Us Contact Us Login SignUp

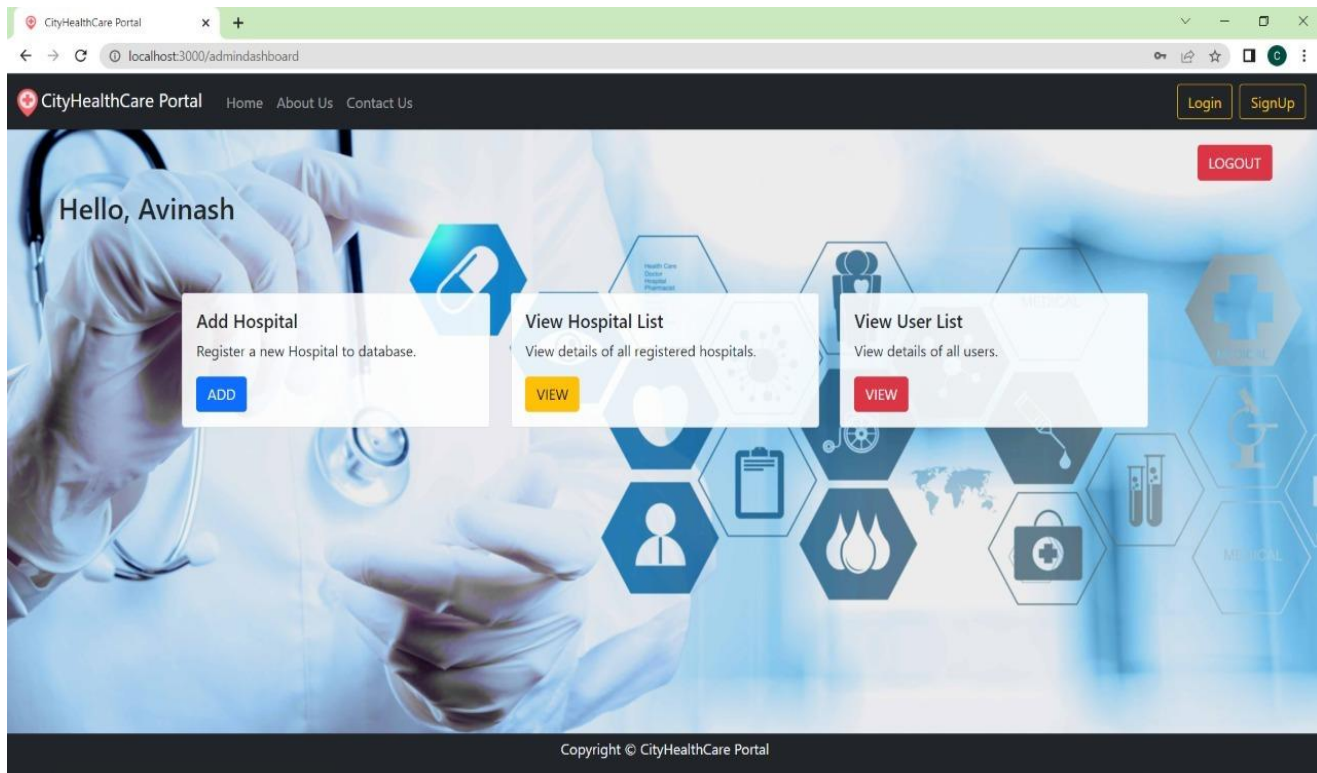
Back

### Login

LOGIN

Copyright © CityHealthCare Portal

- **Admin Dashboard**

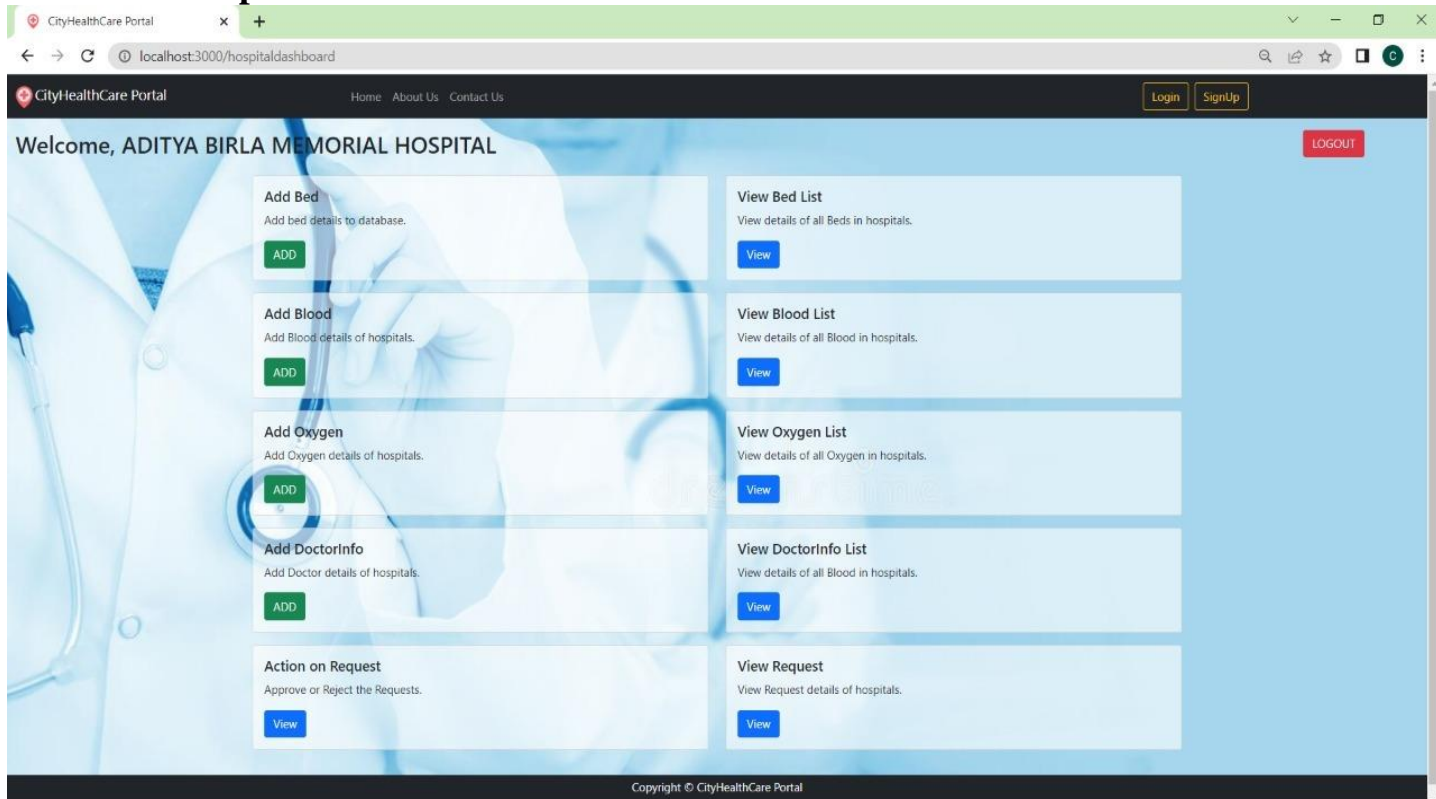


- **Add Hospital**

A screenshot of the 'CityHealthCare Portal' 'Add Hospital' registration form. The browser's address bar shows 'localhost:3000/addhospital'. The header is identical to the dashboard page. A 'Back To Dashboard' button is located in the top right. The form is titled 'Hospital Registration' and contains the following fields: 'HospitalName', 'Email' (pre-filled with 'info@dmhospital.org'), 'Password' (masked with dots), 'Address', 'Contact', and 'AmbulanceContact'. A blue 'REGISTER' button is at the bottom of the form. The footer contains the text 'Copyright © CityHealthCare Portal'.



## • Hospital Dashboard



## • Add Bed

CityHealthCare Portal

Home About Us Contact Us

Login SignUp

Back To Dashboard

### Add Bed

Ventilator

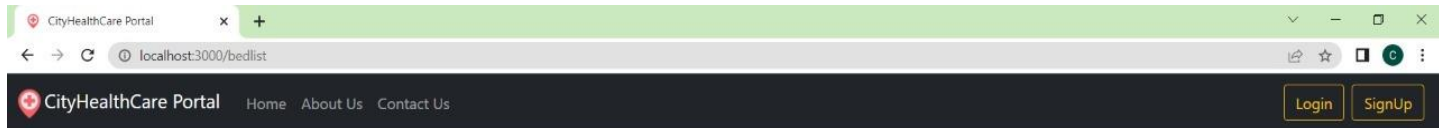
Oxygen

Normal

Copyright © CityHealthCare Portal



- View Bed



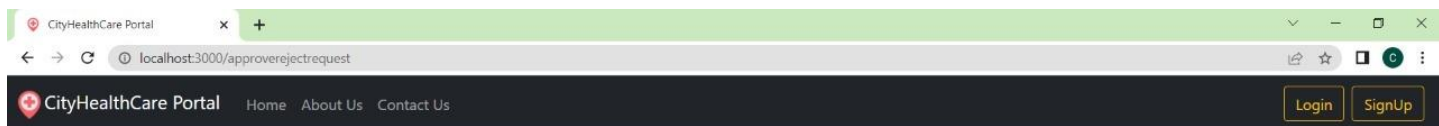
Back To Dashboard

### Bed List

Hospital Name	Ventilator	Oyygen	Normal
ADITYA BIRLA MEMORIAL HOSPITAL	10	15	40

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- Action on Request



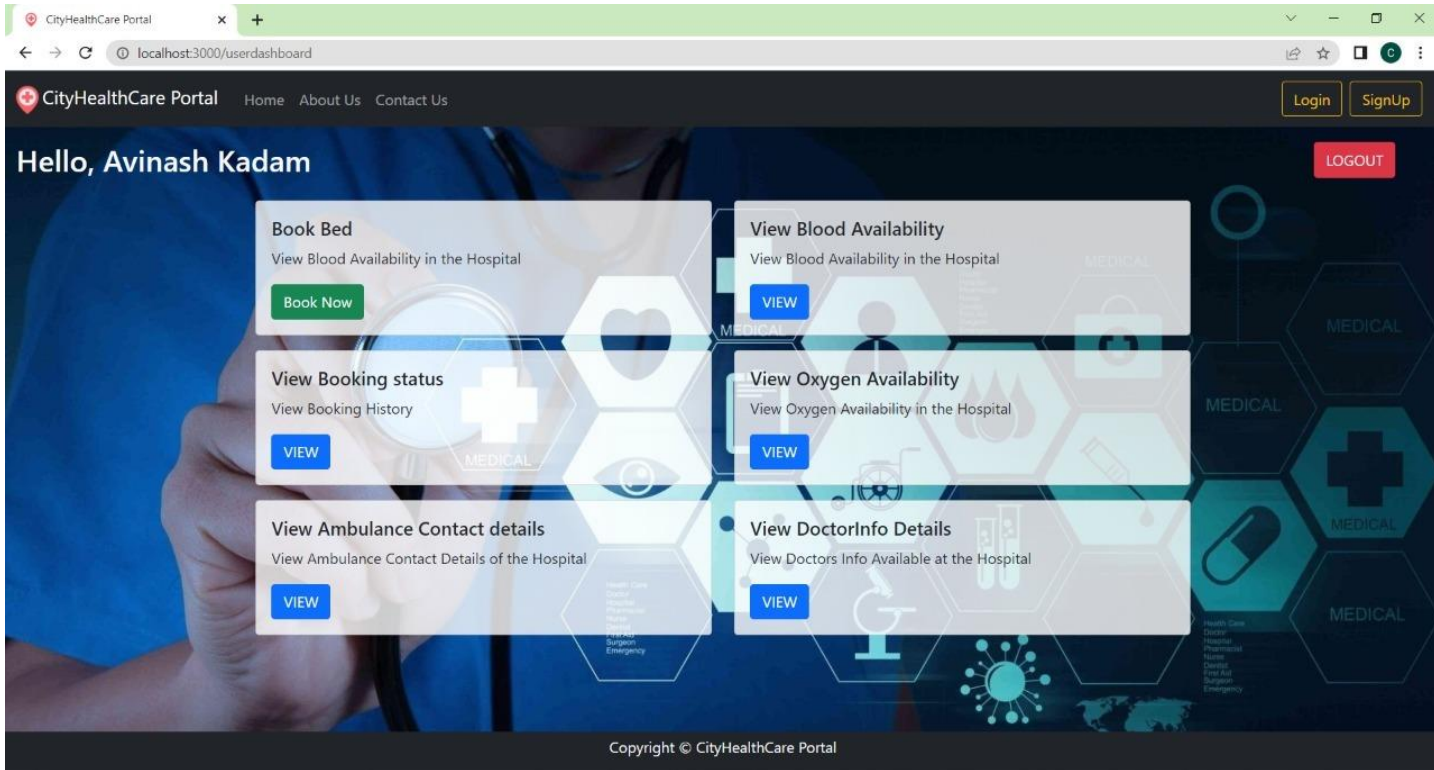
Back to Dashboard

### Request List

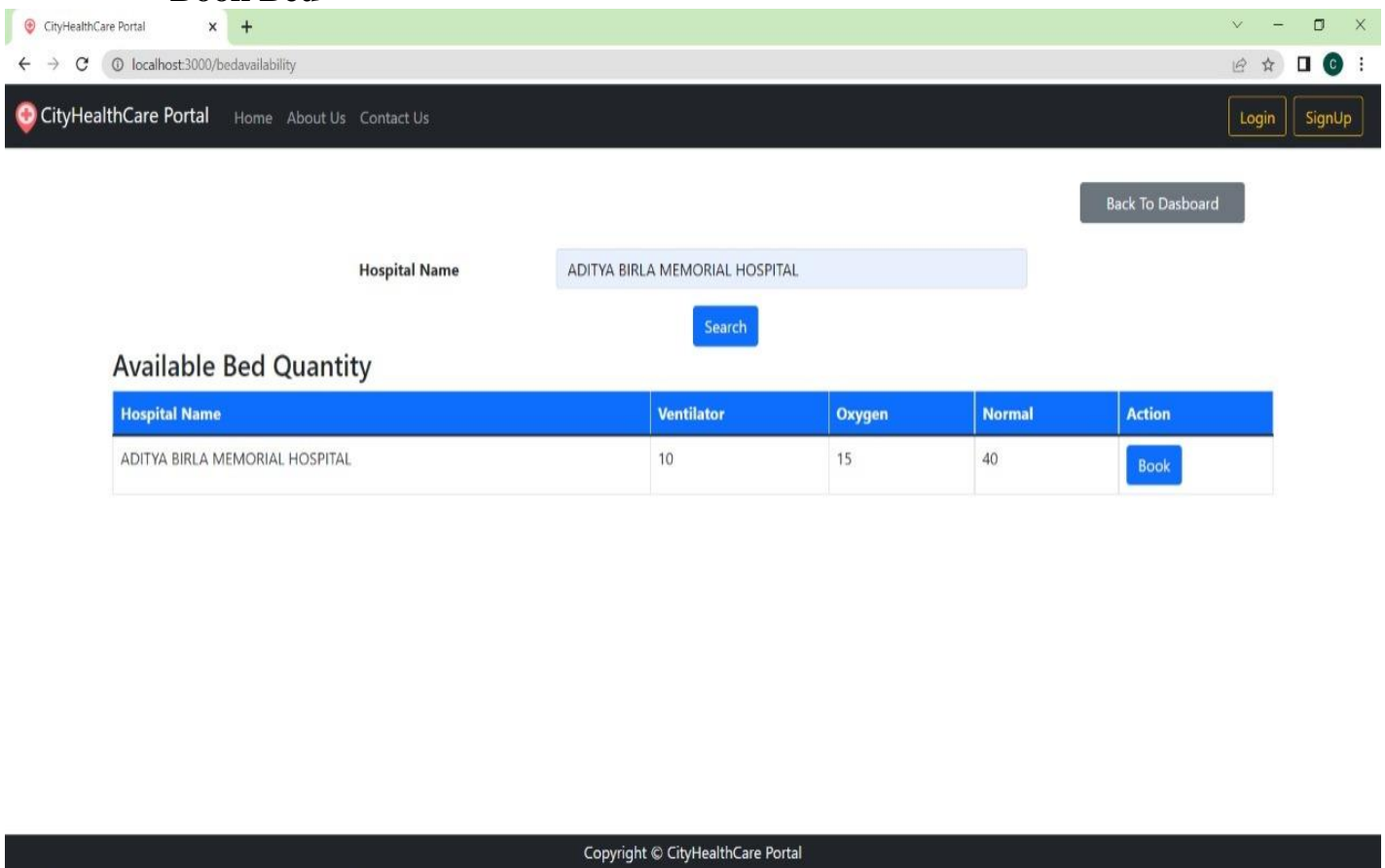
Bedtype	Symptoms	Date	Action
ventilator	Accident	Mon Sep 26 2022 16:52:48	<button>Accept</button> <button>Reject</button>

Copyright © CityHealthCare Portal

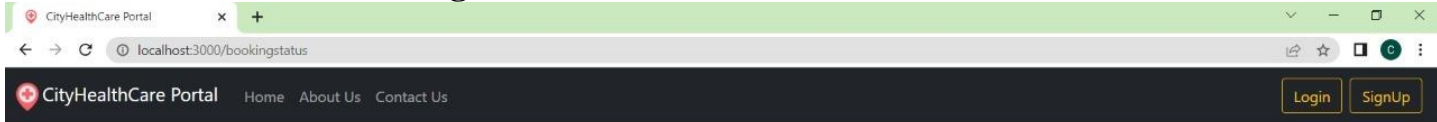
## • User Dashboard



## • Book Bed



## • View Bed Booking Status



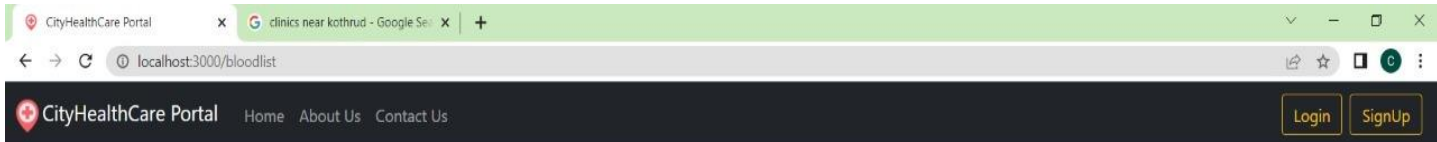
[Back to Dashboard](#)

### Request List

bedtype	symptoms	Request Time	status
oxygen	Fever,cold	Mon Sep 26 2022 16:47:29	Accepted
normal	Fever	Mon Sep 26 2022 16:52:27	Accepted
ventilator	Accident	Mon Sep 26 2022 16:52:48	pending

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## • View Blood Details



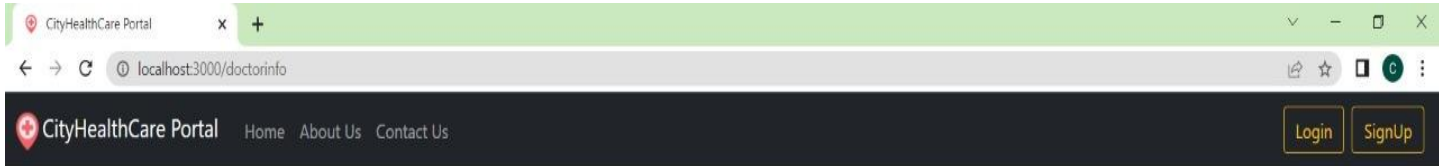
[Back To Dashboard](#)

### Blood List

Hospital Name	A_pos	A_Neg	B_pos	B_Neg	AB_pos	AB_Neg	O_pos	O_Neg
ADITYA BIRLA MEMORIAL HOSPITAL	4 Unit	10 Unit	44 Unit	14 Unit	41 Unit	15 Unit	14 Unit	35 Unit

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- **View Doctor's Info**



[Back To Dashboard](#)

Hospital Name

ADITYA BIRLA MEMORIAL HOSPITAL

Search

### Doctor Information List

Name	Email	Qualification	Specilization	Fees
Dr. (Major) Kumar Raushan	doctorshealthcare@adityabirla.com	MBBS, PGDGM, MS	General Surgery	Rs. 1500 /-
Mrs. Vaishali Makarand Marathe	doctorshealthcare@adityabirla.com	Registered dietician, PG DND, Certified Diabetic Educator, MBA Health care (RD, PGDND,CDE, MBA)	Diabetes	Rs. 4000 /-
Dr. Nisha Chauhan	doctorshealthcare@adityabirla.com	MBBS, MS (Ophthalmology)	Ophthalmology	Rs. 2000 /-
Dr. Rashmi Sapkal	doctorshealthcare@adityabirla.com	B.D.S., M.D.S (Oral Medicine and Radiology)	Oral Radiology	Rs. 1000 /-

# **Chapter 5**

## **Implementation**

### **5.1 Algorithm of the project**

STEP 1: START

STEP 2: OPEN HOME PAGE

STEP 3: DO REGISTRATION

STEP 4: LOGIN INTO SYSTEM

STEP 5: IF USER

THEN DO REGISTRATION AND LOGIN TO USE SERVICE

STEP 6: IF ADMIN

THEN DO LOGIN,

REGISTER THE REQUESTED HOSPITAL TO THE LIST.

STEP 7: IF HOSPITAL

THEN DO ADD BED DETAILS, ADD BLOOD DETAILS, ADD OXYGEN  
DETAILS, AND THE DOCTOR'S DETAILS PRESENT IN HOSPITAL,

DO CHECK REQUEST DONE BY USER AND ACCEPT OR REJECT IT.

STEP 9: END

## Chapter 6

### Testing

Table 1.1 Test Cases

<b>Test Id</b>	<b>Item to be Tested</b>	<b>Steps</b>	<b>Input</b>	<b>Actual Output</b>	<b>Expected Output</b>	<b>Pass/Fail</b>
<b>1</b>	<b>Left all the fields in the form blank. Click on submit button.</b>	<b>User Empty details</b>	<b>Empty</b>	<b>Report Empty field not allowed</b>	<b>Report empty</b>	<b>Pass</b>
<b>2</b>	<b>System check for proper username and password entered by users</b>	<b>System compares the data entered by user and the entered data in database</b>	<b>User Id and Password</b>	<b>View Page</b>	<b>Display page</b>	<b>Pass</b>
		<b>If username and password is valid</b>		<b>Make Connection</b>	<b>Makes connection</b>	<b>Pass</b>

		<b>If username &amp; password is invalid</b>		<b>Report invalid user id</b>	<b>Report error</b>	<b>Pass</b>
<b>3</b>	<b>System checks whether details of user are entered as per the format</b>	<b>System checks the data entered by user is in valid form or not.</b>				
		<b>If valid</b>	<b>User entered data</b>	<b>Entered in database</b>	<b>Entered in database</b>	<b>Pass</b>
		<b>If invalid</b>	<b>User entered data</b>	<b>“Invalid Data” message will be printed</b>	<b>“Invalid Data” message will be printed</b>	<b>Pass</b>
<b>4</b>	<b>Session Management</b>	<b>System checks the URL entered by user is in valid form or not.</b>				

		<b>If valid</b>	<b>Page URL</b>	<b>View Page</b>	<b>View Page</b>	<b>Pass</b>
		<b>If invalid</b>	<b>Page URL</b>	<b>Error Page</b>	<b>Error Page</b>	<b>Pass</b>

		<b>user is in valid form or not.</b>				
		<b>If valid</b>	<b>Page URL</b>	<b>View Page</b>	<b>View Page</b>	<b>Pass</b>
		<b>If invalid</b>	<b>Page URL</b>	<b>Error Page</b>	<b>Error Page</b>	<b>Pass</b>



## **Chapter 7**

### **Result and Conclusion**

Taking into account all the mentioned details, we can make the conclusion that the Cityhealthcare portal system is the inevitable part of the lifecycle of the modern medical institution. It automates the operations while having emergency during the pandemic situations. Developing the Cityhealthcare portal software is a great opportunity to create the distinct, efficient, and fast delivering health care model. Implementation of Cityhealthcare portal project helps to store all the kinds of records, provide coordination and user communication. This beneficial decision covers the needs of the user and simplifies their interactions with the hospital.

- Time Saving Application
- Cost Effective and easily manageable
- Data Security
- Maintains Data of user and hospital

# Appendix

## Appendix 1

HTML: Hypertext Markup Language

CSS: Cascading Style Sheet

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