

VISVESVARAYA TECHNOLOGICAL UNIVERSITY



BELAGAVI – 590018, Karnataka

INTERNSHIP REPORT

ON

“HOSPITAL BED ALLOTMENT SYSTEM”

Submitted in partial fulfilment for the award of degree(18CSI85)

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING

Submitted by:

SAMYUKTHA MADHAV

1KG20CS098



Conducted at
COMPSOFT TECHNOLOGIES



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CERTIFICATE

This is to certify that the Internship titled “**HOSPITAL BED ALLOTMENT SYSTEM**” carried out by **Mr. RKH**, a bonafide student of KSSEM Institute of Technology, in partial fulfillment for the award of **Bachelor of Engineering**, in **CSE** under Visvesvaraya Technological University, Belagavi, during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report.

The project report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the course Internship / Professional Practice (18CSI85).

Signature of Guide

Signature of HOD

Signature of Principal

External Viva:

Name of the Examiner

Signature with Date

1)_____

2)_____

D E C L A R A T I O N

I, Samyuktha madhav, final year student of Computer science and engineering, KS School of engineering and Management- 560 082, declare that the Internship has been successfully completed, in **COMPSOFT TECHNOLOGIES**. This report is submitted in partial fulfillment of the requirements for award of Bachelor Degree in Branch name, during the academic year 2022-2023.

Date :20-09-2023

:

Place : Bangalore

USN : 1KG20CS098

NAME : SAMYUKTHA MADHAV

INTERNSHIP OFFER LETTER



Date: 11th August 2023

Name: **Samyuktha Madhav**

USN: **1KG20CS098**

Placement ID: **1008FS204**

Dear Student,

We would like to congratulate you on being selected for the **Full Stack Web Development** Internship position with **Sain Informatix Pvt. Ltd.**, effective Start Date **11th August, 2023**. All of us are excited about this opportunity provided to you!

This internship is viewed as being an educational opportunity for you, rather than a part-time job. As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts of **Full Stack Web Development** through hands-on application of the knowledge you learn while you train with the senior developers. You will be bound to follow the rules and regulations of the company during your internship duration.

Again, congratulations and we look forward to working with you!

Sincerely,

Nandini S

HR Manager

SAIN INFORMATIX PVT. LTD.

No. 1122, Cellar Floor, Service

Road,

Hampi Nagar

Bengaluru

ACKNOWLEDGEMENT

This Internship is a result of accumulated guidance, direction and support of several important persons. We take this opportunity to express our gratitude to all who have helped us to complete the Internship.

We express our sincere thanks to our Principal, for providing us adequate facilities to undertake this Internship.

We would like to thank our Head of Dept – branch code, for providing us an opportunity to carry out Internship and for his valuable guidance and support.

We would like to thank our (Lab assistant name) Software Services for guiding us during the period of internship.

We express our deep and profound gratitude to our guide, Guide name, Assistant/Associate Prof, for her keen interest and encouragement at every step in completing the Internship.

We would like to thank all the faculty members of our department for the support extended during the course of Internship.

We would like to thank the non-teaching members of our dept, for helping us during the Internship.

Last but not the least, we would like to thank our parents and friends without whose constant help, the completion of Internship would have not been possible.

NAME:SAMYUKTHA MADHAV USN:1KG20CS098

ABSTRACT

This project deals with the 'Hospital bed allotment Management System'. The system is used for daily activities such as booking a courier, maintain employee details, process payroll of employees, maintain hub details, maintain company details etc. Courier services are a more specialized delivery service that businesses and individuals turn to when they need a package or a document to reach its destination quickly. While regular mail services can also deliver packages rapidly, they cannot guarantee same day delivery or overnight delivery as the case may be. The term "courier service" can refer to every form of delivery or transport service ranging from a small, local operation to an international network servicing millions daily using a fleet of trucks, planes, trains and ships. The courier management system will be used for our day-to-day activities like out return, company details, hub rates, booking, no delivery and pick up centers. It is not easy to do this process manually because it is too hectic. Hence it is recommended to automate the process by developing relevant software as world is moving from manual working to information and technology era where computerization becomes important in all walks of life.

Internship report

2023-24

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CHAPTER 1 COMPANY PROFILE

1. COMPANY PROFILE

A Brief History of Company Name

Compsoft Technologies, was incorporated with a goal "To provide high quality and optimal Technological Solutions to business requirements of our clients". Every business is a different and has a unique business model and so are the technological requirements. They understand this and hence the solutions provided to these requirements are different as well. They focus on clients requirements and provide them with tailor made technological solutions. They also understand that Reach of their Product to its targeted market or the automation of the existing process into e-client and simple process are the key features that our clients desire from Technological Solution they are looking for and these are the features that we focus on while designing the solutions for their clients.

Compsoft Technologies is a Technology Organization providing solutions for all web design and development, MYSQL, PYTHON Programming, HTML, CSS, ASP.NET and LINQ. Meeting the ever increasing automation requirements, Sarvamoola Software Services. specialize in ERP, Connectivity, SEO Services, Conference Management, effective web promotion and tailor-made software products, designing solutions best suiting clients requirements.

Compsoft Technologies, strive to be the front runner in creativity and innovation in software development through their well-researched expertise and establish it as an out of the box software development company in Bangalore, India. As a software development company, they translate this software development expertise into value for their customers through their professional solutions.

They understand that the best desired output can be achieved only by understanding the clients demand better. Varcons Technologies work with their clients and help them to define their exact solution requirement. Sometimes even they wonder that they have completely redefined their solution or new application requirement during the brainstorming session, and here they position themselves as an IT solutions consulting group comprising of high caliber consultants.

They believe that Technology when used properly can help any business to scale and achieve new heights of success. It helps Improve its efficiency, profitability, reliability; to put it in one sentence ” Technology helps you to Delight your Customers” and that is what we want to achieve.

CHAPTER 2 ABOUT THE COMPANY

2. ABOUT THE COMPANY

Compsoft Technologies is a Technology Organization providing solutions for all web design and development, MYSQL, PYTHON Programming, HTML, CSS, ASP.NET and LINQ. Meeting the ever increasing automation requirements, Varcons Technologies specialize in ERP, Connectivity, SEO Services, Conference Management, effective web promotion and tailor-made software products, designing solutions best suiting clients requirements. The organization where they have a right mix of professionals as a stakeholders to help us serve our clients with best of our capability and with at par industry standards. They have young, enthusiastic, passionate and creative Professionals to develop technological innovations in the field of Mobile technologies, Web applications as well as Business and Enterprise solution.

Motto of our organization is to “Collaborate with our clients to provide them with best Technological solution hence creating Good Present and Better Future for our client which will bring a cascading a positive effect in their business shape as well”. Providing a Complete suite of technical solutions is not just our tag line, it is Our Vision for Our Clients and for Us, We strive hard to achieve it.

Products of Company

Android Apps

It is the process by which new applications are created for devices running the Android operating system. Applications are usually developed in Java (and/or Kotlin; or other such option) programming language using the Android software development kit (SDK), but other development environments are also available, some such as Kotlin support the exact same Android APIs (and bytecode), while others such as Go have restricted API access.

The Android software development kit includes a comprehensive set of development tools. These include a debugger, libraries, a handset emulator based on QEMU, documentation, sample code, and tutorials. Currently supported development platforms include computers running Linux (any modern desktop Linux distribution), Mac OS X 10.5.8 or later, and Windows 7 or later. As of March 2015, the SDK is not available on Android itself, but software development is possible by using specialized Android applications.

Web Application

It is a client–server computer program in which the client (including the user interface and client-side logic) runs in a web browser. Common web applications include web mail, online

retail sales, online auctions, wikis, instant messaging services and many other functions. web applications use web documents written in a standard format such as HTML and JavaScript, which are supported by a variety of web browsers. Web applications can be considered as a specific variant of client-server software where the client software is downloaded to the client machine when visiting the relevant web page, using standard procedures such as HTTP. The Client web software updates may happen each time the web page is visited. During the session, the web browser interprets and displays the pages, and acts as the universal client for any web application. The use of web application frameworks can often reduce the number of errors in a program, both by making the code simpler, and by allowing one team to concentrate on the framework while another focuses on a specified use case. In applications which are exposed to constant hacking attempts on the Internet, security-related problems can be caused by errors in the program.

Frameworks can also promote the use of best practices such as GET after POST. There are some who view a web application as a two-tier architecture. This can be a “smart” client that performs all the work and queries a “dumb” server, or a “dumb” client that relies on a “smart” server. The client would handle the presentation tier, the server would have the database (storage tier), and the business logic (application tier) would be on one of them or on both. While this increases the scalability of the applications and separates the display and the database, it still doesn’t allow for true specialization of layers, so most applications will outgrow this model. An emerging strategy for application software companies is to provide web access to software previously distributed as local applications. Depending on the type of application, it may require the development of an entirely different browser-based interface, or merely adapting an existing application to use different presentation technology. These programs allow the user to pay a monthly or yearly fee for use of a software application without having to install it on a local hard drive. A company which follows this strategy is known as an application service provider (ASP), and ASPs are currently receiving much attention in the software industry.

Security breaches on these kinds of applications are a major concern because it can involve both enterprise information and private customer data. Protecting these assets is an important part of any web application and there are some key operational areas that must be included in the development process. This includes processes for authentication, authorization, asset handling, input, and logging and auditing. Building security into the applications from the beginning can be more effective and less disruptive in the long run.

Web design

It encompasses many different skills and disciplines in the production and maintenance of websites. The different areas of web design include web graphic design; interface design; authoring, including standardized code and proprietary software; user experience design; and search engine optimization. The term web design is normally used to describe the design

process relating to the front-end (client side) design of a website including writing mark up. Web design partially overlaps web engineering in the broader scope of web development. Web designers are expected to have an awareness of usability and if their role involves creating mark up then they are also expected to be up to date with web accessibility guidelines. Web design partially overlaps web engineering in the broader scope of web development.

Departments and services offered

Compsoft Technologies plays an essential role as an institute, the level of education, development of student's skills are based on their trainers. If you do not have a good mentor then you may lag in many things from others and that is why we at Compsoft Technologies gives you the facility of skilled employees so that you do not feel unsecured about the academics. Personality development and academic status are some of those things which lie on mentor's hands. If you are trained well then you can do well in your future and knowing its importance of Compsoft Technologies always tries to give you the best.

They have a great team of skilled mentors who are always ready to direct their trainees in the best possible way they can and to ensure the skills of mentors we held many skill development programs as well so that each and every mentor can develop their own skills with the demands of the companies so that they can prepare a complete packaged trainee.

Services provided by the Company

- Core Java and Advanced Java
- Web services and development
- Dot Net Framework
- Python
- Selenium Testing
- Conference / Event Management Service
- Academic Project Guidance
- On The Job Training
- Software Training

CHAPTER 3

INTRODUCTION

3. INTRODUCTION

3.1 OVERVIEW

COVID BED ALLOTMENT MANAGEMENT SYSTEM contains the Details about the number of beds available for the covid patients in the current pandemic.

3.2 PROBLEM STATEMENT

The advent of computer Technology has brought relief to repetitive tasks and has helped in the better management and origination of data. Information management system can be applied to any system that facilitates storage, management and retrieved of data and information required for some particular application within a computer system. This makes it easier for data to be handled or managed. The administration staffs have been finding it so difficult to manage information. With the aid of computer system, the data will be properly managed, organized and construction of a suitable program that will help in the management of administration

3.3 DATABASE MANAGEMENT SYSTEM

A database management system (DBMS) is system software for creating and managing databases. The DBMS provides users and programmers with a systematic way to create, retrieve, update and manage

data. The DBMS essentially serves as an interface between the database and end users application programs, ensuring that data is consistently organized and remains easily access.

The DBMS manages three important things: the data, the database engine that allows data to be accessed, locked and modified, and the database schema, which defines the database's logical structure. These three foundational elements help to provide concurrency, security, data integrity and uniform administration procedures. Typical database administration tasks supported by the DBMS include change management, performance monitoring/tuning and backup and recovery. Many database management systems are also responsible for automated rollbacks, restarts and recovery as well as the logging and auditing of activity.

3.4 SQL

SQL is a standard language for storing, manipulating and retrieving data in databases. Originally based upon relational algebra and tuple relational calculus, SQL consists of a data definition language, data manipulation language, and data control language. The scope of SQL includes data insert, query, update and delete, schema creation and modification, and data access control. SQL became a standard of the American National Standards Institute (ANSI) in 1986, and of the International Organization for Standardization (ISO) in 1987.[13] Since then, the standard has been revised to include a larger set of features. Despite the existence of such standards, most SQL code is not completely portable among different database systems without adjustments.

3.5 HTML & CSS

HTML is a markup language used for structuring and presenting content on the web and the fifth and current major version of the HTML standard.

HTML5 includes detailed processing models to encourage more interoperable implementations; it extends, improves and rationalizes the markup available for documents, and introduces markup and application programming interfaces (APIs) for complex web applications. CSS helps Web developers create a uniform look across several pages of a Web site. Instead of defining the style of each table and each block of text within a page's HTML, commonly used styles need to be defined only once in a CSS document. Once the style is defined in cascading style sheet, it can be used by any page that references the CSS file. Plus, CSS makes it easy to change styles across several pages at once. For example, a Web developer may want to increase the default text size from 10pt to 12pt for fifty pages of a Web site. If the pages all reference the same style sheet, the text size only needs to be changed on the style sheet and all the pages will show the larger text. Alongside HTML and CSS is one of the three core technologies of the World Wide Web. JavaScript enables interactive web pages and thus is an essential part of web applications. The vast majority of websites use it, and all major web browsers have a dedicated JavaScript engine to execute it.

CHAPTER 4 SYSTEM ANALYSIS

4. SYSTEM ANALYSIS

1. Existing System

Bed Management in this pandemic has become an issue that almost all of the families of covid patients face. But by using the latest technology this problem can be solved, The main reason for this problem is hospitals not having a proper portal for managing beds. Our solution to this problem can be used to save many lives of covid patients. Therefore we have tried to address this problem with help of our project where the focus is to make sure that every covid patient gets a bed. We have achieved this by creating two apps one for users through which they can request a bed in a hospital and another one for hospitals where they can manage beds.

2. Proposed System

In the present system, the patient's relatives have to go from hospital to hospital where after going from 5-10 hospitals if the patient is lucky enough patient gets a bed, but not all people get a bed in hospitals as a result of this they lose their life. And there are many websites available that provide bed management but none of these provide a facility to the patient where they can request for bed themselves neither any app is introduced which makes bed management tasks easy.

3. Objective of the System

The app is designed to solve this problem by providing a bed booking system to the users. The user will be provided bed status of all hospitals in a city and hospital-wise bed status. The patient can request for bed by uploading their **Aadhaar card and corona positive certificate** for verification. Then at the hospital side, the hospital can see the bed request, and then they can approve or reject the patient's request the patient receives an SMS on their mobile number to show to the reception when they reach the hospital.

**CHAPTER 5 REQUIREMENT
ANALYSIS**

5. REQUIREMENT ANALYSIS

A computerized way of handling information about property and users details is efficient, organized and time saving, compared to a manual way of doing so. This is done through a database driven web application whose requirements are mentioned in this section.

5.1 OVERALL DESCRIPTION

A reliable and scalable database driven web application with security features that is easy to use and maintain is the requisite.

5.2 SPECIFIC REQUIREMENTS

The specific requirements of the Hospital bed allotment system are stated as follows:

5.3 SOFTWARE REQUIREMENTS

- Operating system - Windows 10
- Front End Design - CSS,HTML
- Back End Design – MySql , PHP
- Server - XAMP

5.4 HARDWARE REQUIREMENTS

- Processor – Intel core i3
- RAM – 4 GB or more
- Hard disk- 3GB or more

5.5 TECHNOLOGY

- HTML is used for the front end design. It provides a means to structure text based information in a document. It allows users to produce web pages that include text, graphics and hyperlinks.
- CSS (Cascading Style Sheets) is a style sheet language used for describing the presentation of a document written in a markup language. Although most often used to set the visual style of web pages and user interfaces written in HTML and XHTML, the language can be applied to any XML document.
- SQL is the language used to manipulate relational databases. It is tied closely with the relational model. It is issued for the purpose of data definition and data manipulation.
- Java Server pages is a simple yet powerful technology for creating and maintaining dynamic content web pages. It is based on the Java programming language. It can be thought of as an extension to servlet because it provides more functionality than servlet. A JSP page consists of HTML tags and JSP tags. The jsp pages are easier to maintain than servlet because we can separate designing and development.
 - We require a JDBC connection between the front end and back end components to write to the database and fetch required data.

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CHAPTER 6 DESIGN ANALYSIS

6. DESIGN & ANALYSIS

6.1 SYSTEM DESIGN

The web server needs a JSP engine, i.e., a container to process JSP pages. The JSP container is responsible for intercepting requests for JSP pages. A JSP container works with the Web server to provide the runtime environment and other services a JSP needs. It knows how to understand the special elements that are part of JSPs. This server will act as a mediator between the client browser and a database. The following diagram shows the JSP architecture.

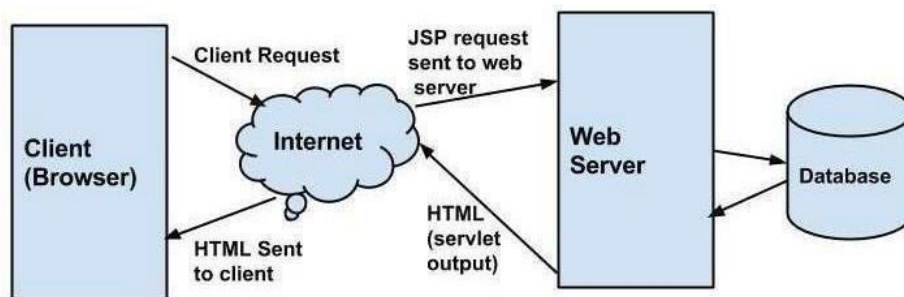


Fig. 6.1: JSP Architecture

Three-tier Client / Server database architecture is commonly used architecture for web applications. Intermediate layer called Application server or Web Server stores the web connectivity software and the business logic (constraints) part of application used to access the right amount of data from the database server. This layer acts like medium for sending partially processed data between the database server and the client. Database architecture focuses on the design, development, implementation and maintenance of computer programs that store and organize information for businesses, agencies and institutions. A database architect develops and implements software to meet the needs of users. Several types of databases, including relational or multimedia, may be created. Additionally, database architects may use one of several languages to create databases, such as structured query language.

3.2 ENTITY RELATIONSHIP DIAGRAM

An entity-relationship model is usually the result of systematic analysis to define and describe what is important to processes in an area of a business.

An E-R model does not define the business processes; it only presents a business data schema in graphical form. It is usually drawn in a graphical form as boxes (entities) that are connected by lines (relationships) which express the associations and dependencies between entities.

Entities may be characterized not only by relationships, but also by additional properties (attributes), which include identifiers called "primary keys". Diagrams created to represent attributes as well as entities and relationships may be called entity- attribute- relationship diagrams, rather than entity-relationship models.

An ER model is typically implemented as a database. In a simple relational database implementation, each row of a table represents one instance of an entity type, and each field in a table represents an attribute type. In a relational database a relationship between entities is implemented by storing the primary key of one entity as a pointer or "foreign key" in the table of another entity.

There is a tradition for ER/data models to be built at two or three levels of abstraction. Note that the conceptual-logical-physical hierarchy below is used in other kinds of specification, and is different from the three schema approach to software engineering. While useful for organizing data that can be represented by a relational structure, an entity-relationship diagram can't sufficiently represent semi-structured or unstructured data, and an ER Diagram is unlikely to be helpful on its own in integrating data into a preexisting information system. Cardinality notations define the attributes of the relationship between the entities. Cardinalities can denote that an entity is optional.

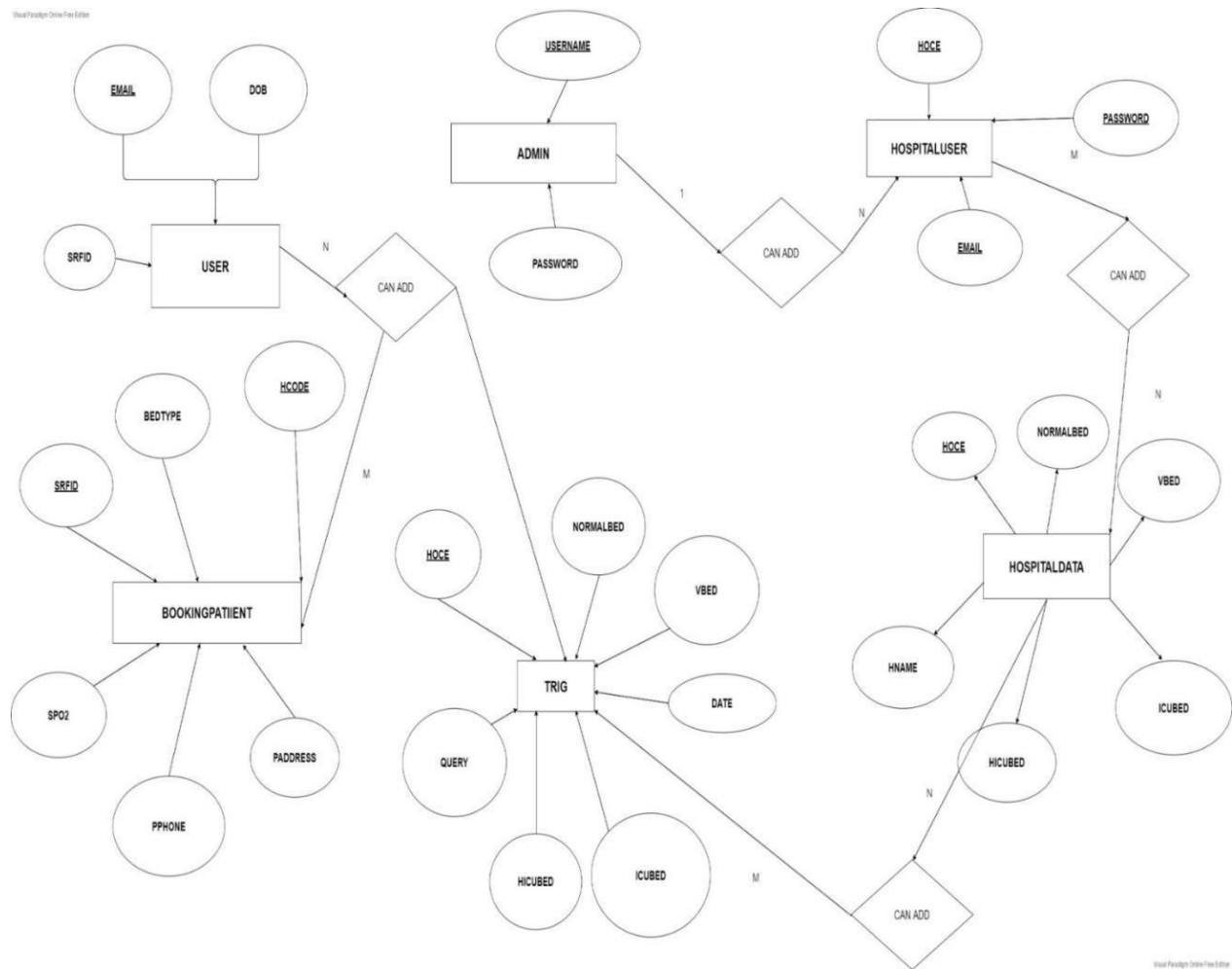


Fig.3.2: ER diagram of Hospital Bed Allotment System

1: n Non Identifying Relationship

1:n non Identifying Relationship

1:1 Identifying Relationship

3.3 RELATIONAL SCHEMA

The term "schema" refers to the organization of data as a blueprint of how the database is constructed. The formal definition of a database schema is a set of formulas called integrity constraints imposed on a database. A relational schema shows references among fields in the database. When a primary key is referenced in another table in the database, it is called a foreign key. This is denoted by an arrow with the head pointing at the referenced key attribute. A schema diagram helps organize values in the database. The following diagram shows the schema diagram for the database.

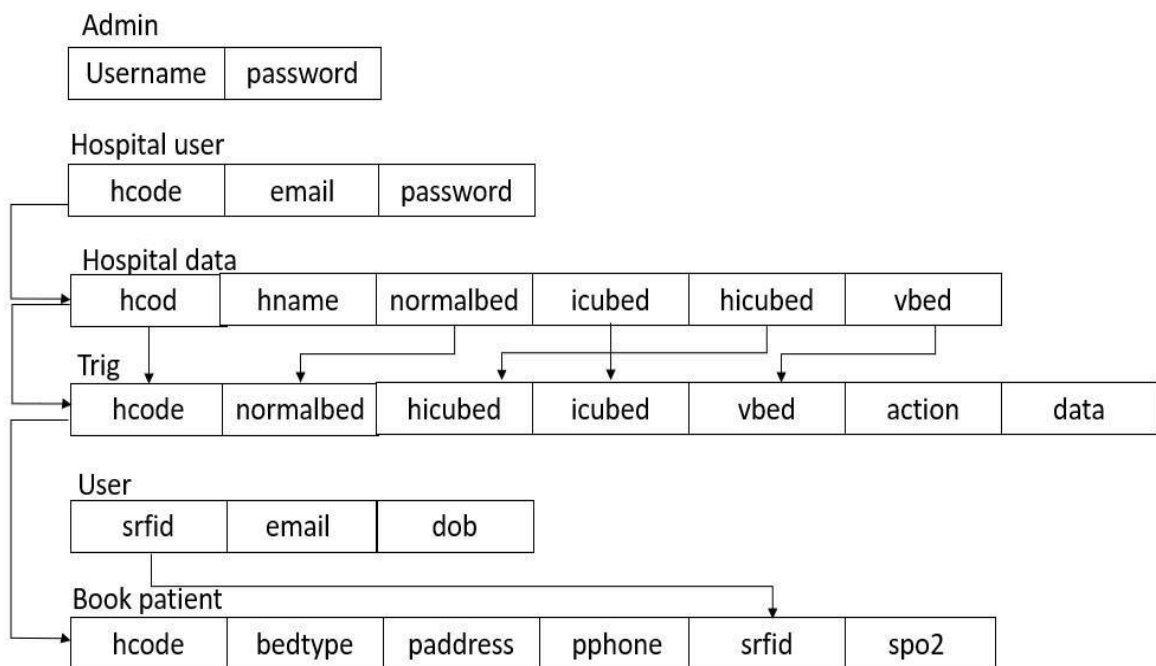


Fig. 3.3: Schema diagram

CHAPTER 7
IMPLEMENTATION

7. IMPLEMENTATION

Implementation is the stage where the theoretical design is turned into a working system. The most crucial stage in achieving a new successful system and in giving confidence on the new system for the users that it will work efficiently and effectively.

The system can be implemented only after thorough testing is done and if it is found to work according to the specification. It involves careful planning, investigation of the current system and its constraints on implementation, design of methods to achieve the change over and an evaluation of change over methods as a part from planning.

Two major tasks of preparing the implementation are education and training of the users and testing of the system. The more complex the system being implemented, the more involved will be the system analysis and design effort required just for implementation.

The implementation phase comprises of several activities. The required hardware and software acquisition is carried out. The system may require some software to be developed. For this, programs are written and tested. The user then changes over to his new fully tested system and the old system is discontinued.

TESTING

The testing phase is an important part of software development. It is the Information zed system will help in automate process of finding errors and missing operations and also a complete verification to determine whether the objectives are met and the user requirements are satisfied. Software testing is carried out in three steps:

1. The first includes unit testing, where in each module is tested to provide its correctness, validity and also determine any missing operations and to verify whether the objectives have been met. Errors are noted down and corrected immediately.
2. Unit testing is the important and major part of the project. So errors are rectified easily in particular module and program clarity is increased. In this project entire system is divided into several modules and is developed individually. So unit testing is conducted to individual modules.
3. The second step includes Integration testing. It need not be the case, the software whose modules when run individually and showing perfect results, will also show perfect results when run as a whole.

CHAPTER 8

SNAPSHOTS

8. SNAPSHOTS

8.1 HOME PAGE

This is the home page for existing users and is the first page shown to any user as shown in fig 5.1

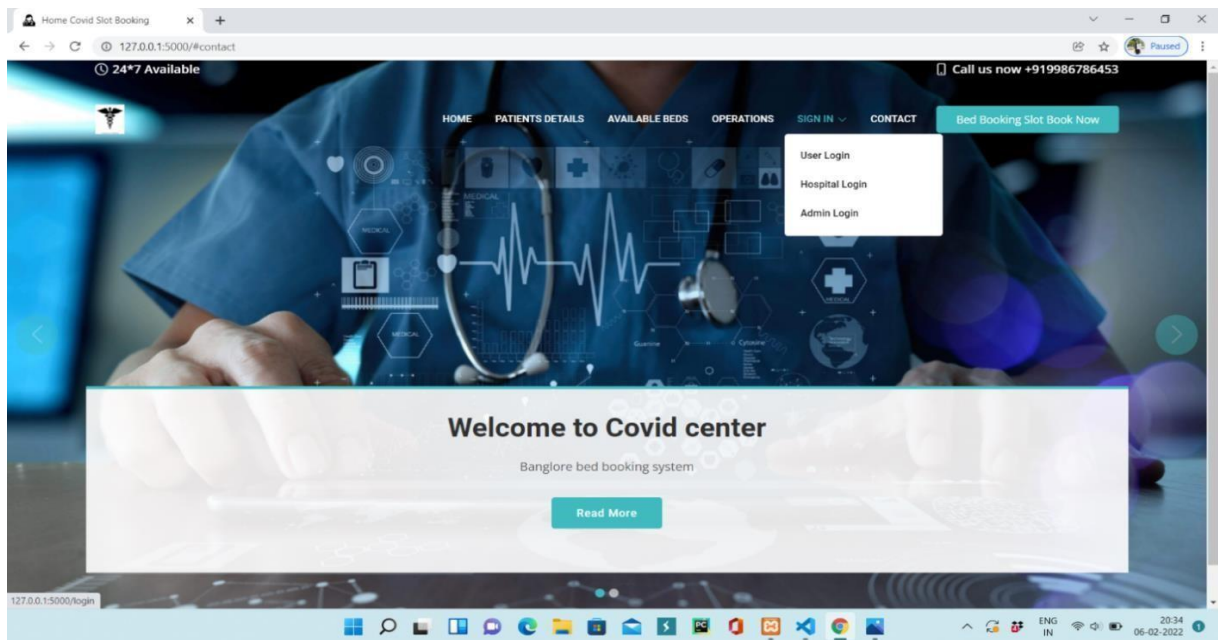


Fig 8.1: Home page

8.2 ADMIN LOGIN

This is the registration page for admin login as shown in fig 5.2

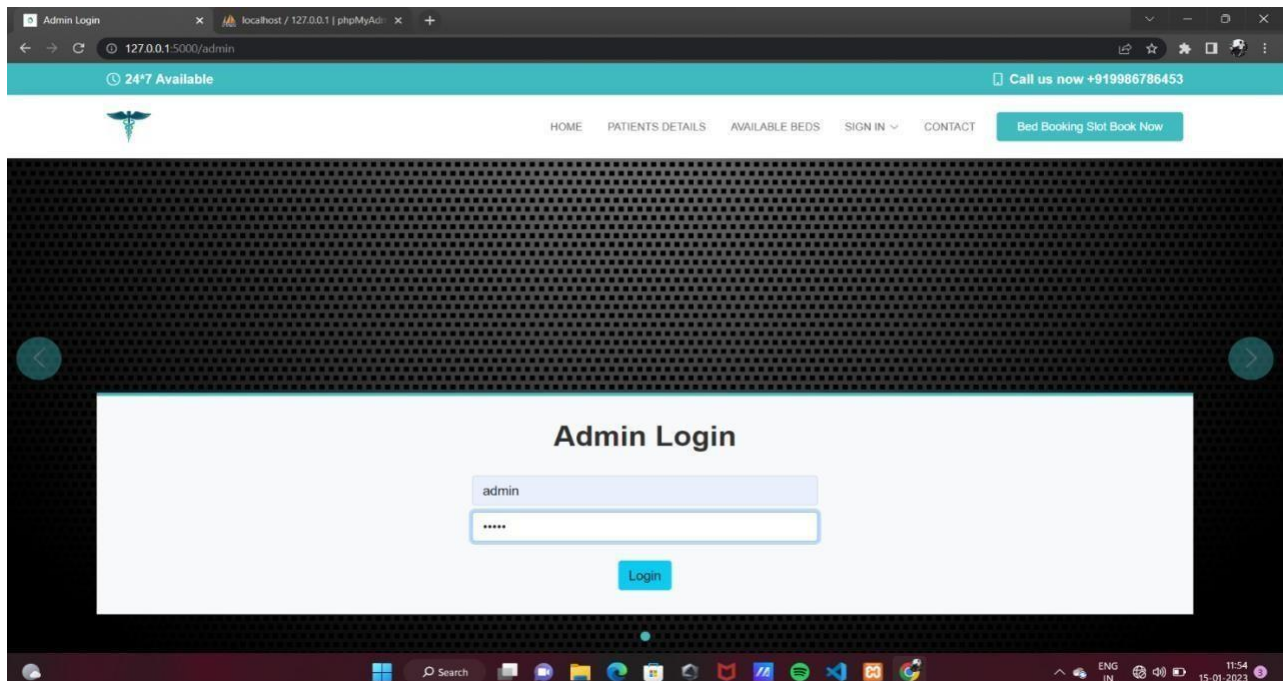


Fig 8.2: Admin login page

8.3 CREATE HOSPITAL USER CODE

The screenshot shows a web browser window with the title 'Hospital User'. The address bar displays '127.0.0.1:5000/admin'. The page has a teal header with '24*7 Available' and a 'Call us now +919986786453' button. The main content area is a dark grey box with a white form titled 'Add Hospital User'. The form contains a 'login success' message, a 'Logout' button, a text input for 'AIIMS', a text input for 'anurag67823@gmail.com', a password input field, and an 'Add' button. The browser's taskbar at the bottom shows various application icons and the system clock indicating 11:54 on 15-01-2023.

Fig8.3: Create Hospital user code

8.4 HOSPITAL LOGIN FORM

The screenshot shows a web browser window with the title 'Hospital Login'. The address bar displays '127.0.0.1:5000/hospitallogin'. The page has a teal header with '24*7 Available' and a 'Call us now +919986786453' button. The main content area is a dark grey box with a white form titled 'Hospital Login'. The form contains a text input for 'anurag67823@gmail.com', a password input field, and a 'Login' button. The browser's taskbar at the bottom shows various application icons and the system clock indicating 11:55 on 15-01-2023.

Fig 8.4: Hospital login form

8.5 ADD HOSPITAL DATA

The screenshot displays the 'Add Hospital Data' web application. It features a central image of a healthcare worker in a clinical setting. To the left, under the heading 'Covid Care Center', is a form with the following fields: 'Enter the Hospital Code', 'Enter Hospital Name', 'Normal Bed Available?', 'H.I.C.U Bed Available?', 'I.C.U Bed Available?', and 'Ventilators Bed Available?'. Below these fields is a blue 'Add' button. To the right, under the heading 'Hospital Data', is a table with the following rows: 'Hospital Code :', 'Hospital Name :', 'Normal Beds Available :', 'H.I.C.U Beds Available:', 'I.C.U Beds Available :', and 'Ventilators Beds Available :'. At the bottom of the table are icons for editing and deleting.

Fig 8.5: Add Hospital Data

8.6 USER SIGN-UP

The screenshot shows the 'Sign Up' web application interface. The background is dark blue with a hexagonal pattern. The top navigation bar includes links for 'HOME', 'PATIENTS DETAILS', 'AVAILABLE BEDS', 'SIGN IN', and 'CONTACT', along with a 'Bed Booking Slot Book Now' button. The main content area is a white box with the title 'Sign Up'. It contains three input fields: a text field with the value '20191105678', an email field with the value 'vinayashree05@gmail.com', and a date field with the value '05-02-1996'. Below the fields is a blue 'Sign In' button and a link that says 'Click Here to Login'.

Fig 8.6: Sign-up Page

8.7 LOGIN PAGE

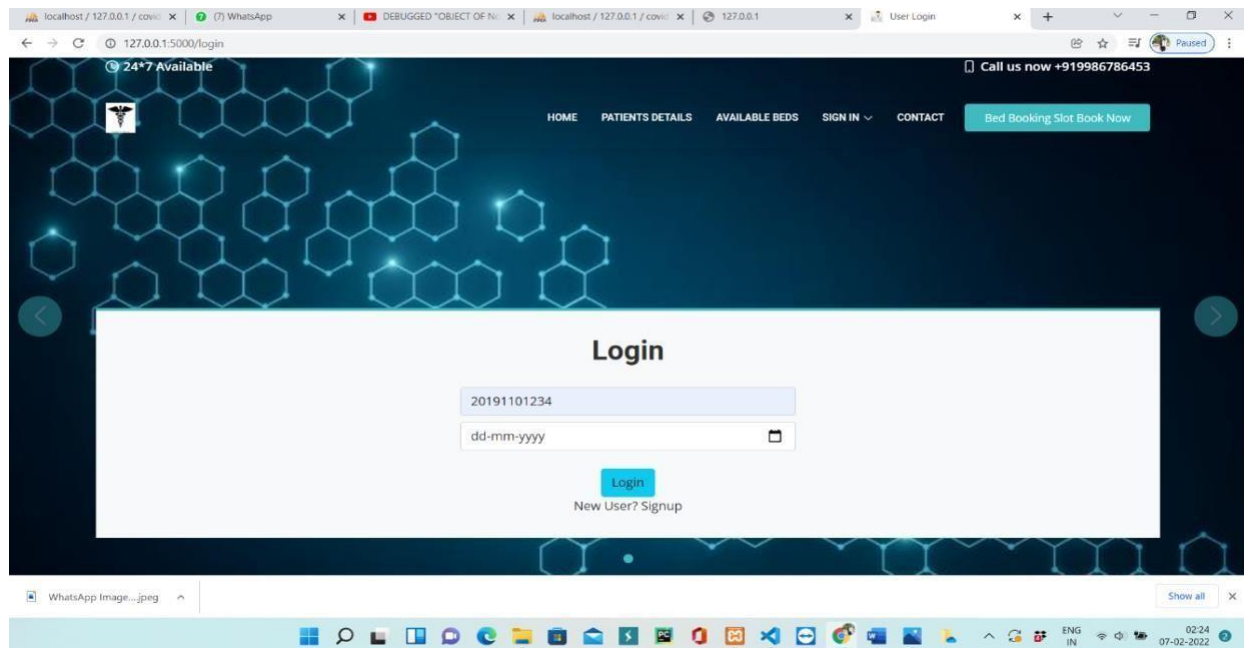


Fig 8.7:Login Page

8.8 BOOK SLOT

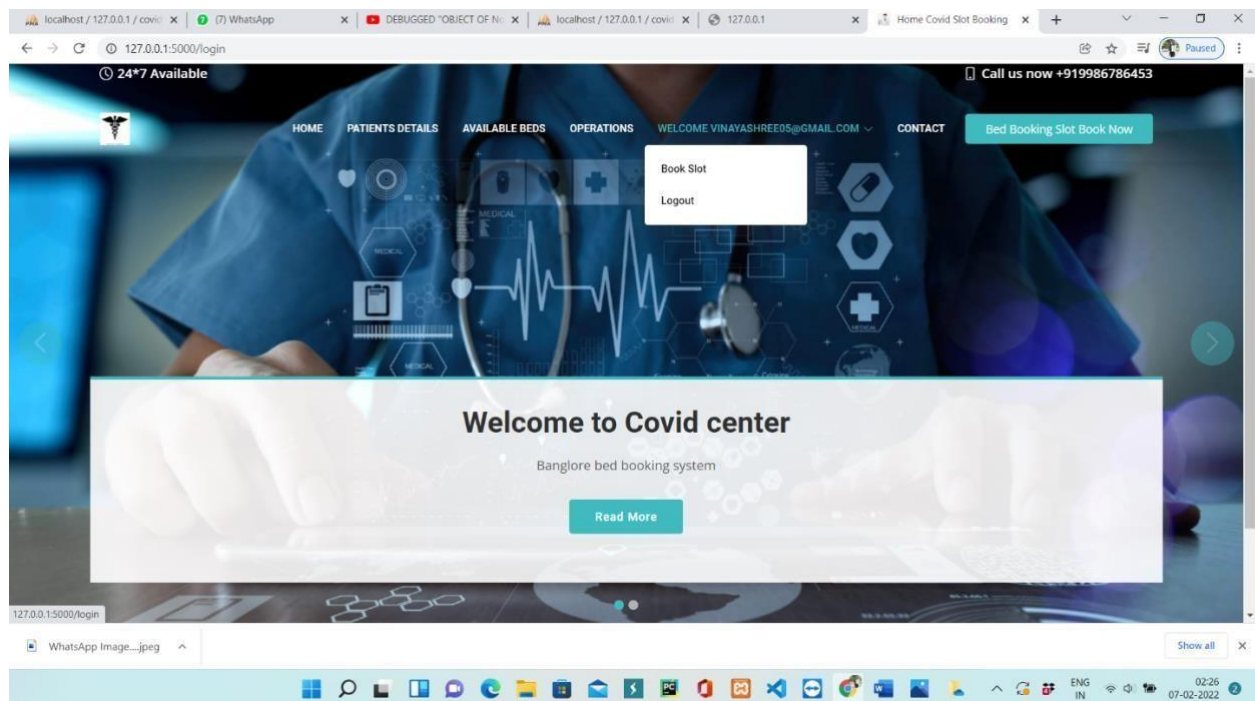


Fig 8.8:Book Slot

8.9 BED BOOKING

Covid Care Center

20191101234

Normal Bed

MAT123

78

ANUSHIYA

8361903872

BANGALORE

Book Slot

Available Beds

| Hospital Code | Hospital Name | Normal Bed | HICU Bed | I.C.U Bed | Ventilator Bed |
|---------------|----------------|------------|----------|-----------|----------------|
| MAT123 | Matha Hospital | 40 | 4 | 4 | 1 |

Fig 8.9:Bed Booking

8.10 TRIGGERS(CREATION,UPDATION)

Triggers

Triggered Data

| Hospital Code | Normal Bed | HICU Bed | I.C.U Bed | Ventilator Bed | Action | DATE |
|---------------|------------|----------|-----------|----------------|----------|------------|
| AIIMS | 45 | 5 | 10 | 15 | INSERTED | 2023-01-12 |
| AIIMS | 45 | 8 | 9 | 15 | UPDATED | 2023-01-14 |
| CH123 | 99 | 76 | 44 | 21 | INSERTED | 2023-01-14 |
| CH123 | 99 | 76 | 43 | 21 | UPDATED | 2023-01-14 |

Fig 8.10:Triggers

CHAPTER 9
CONCLUSION

9. CONCLUSION

To conclude about the project: the project is developed using Python flask, HTML, CSS, PHP and XAMPP is generally imported to satisfy the requirements based on the specification of user. This project has GUI based software that will help precise information, through various user-friendly menu-driven modules.

The project “Hospital Bed Allotment System” is mainly aimed to develop and to maintain the requirements of the helplessly suffering patients from covid-19.

The package was designed in such a way that future modifications can be done easily. The following conclusions can be deduced from the development of the project:

- ❖ Automation of the entire system improves the efficiency
- ❖ It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- ❖ It gives appropriate access to the authorized users depending on their permissions.
- ❖ It effectively overcomes the delay in communications.
- ❖ Updating of information becomes so easier
- ❖ System security, data security and reliability are the striking features.
- ❖ The System has adequate scope for modification in future if it is necessary.

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