PROJECT PROFILE

Project Title	Hospital Management System
Front End	PHP
Back End	Mysql
Web Browser	Mozilla Firefox, Chrome, Opera, etc
Server	XAMMP OR wamp
Documentation	Microsoft Office Word
Task	Analysis, Design, Coding
Sem – Year	5 th Sem-2022
Developed By	Makasana Manisha A. Kanani Gudee H. Adroja Nensi P.
Submitted To	SMT R. O. Patel Women's College.

Hospital Management

SCOPE OF THE PROJECT

Specification

In first two week we are only concentrate on how to make this website more useful and user access easily for that we created user-friendly design.

- 1) Information about patients is done by just writing the patients name, age and gender. Whenever the patient comes up his information is stored freshly.
- 2) Bills are generated by recording price for each facility provided patient on a separate sheet and at last they all are summed up.
- 3) Diagnosis information to patients it generally recorded on the document, which contains patient information. It is destroyed after some time period to decrease the paper load in the office.
- 4) Information about various diseases is not kept as any document. Doctor themselves do this job by remembering various medicine.

PROJECT INFORMATION

- ➤ Hospital Management is exactly what the name implies. It's the overall management of a health facility such as a clinic or hospital.
- ➤ A person in charge of hospital management oversees the day-today operations of the facility.
- ➤ User can search availability to know the details of a patient using the id.
- ➤ The project Hospital Management System includes registration of patients storing their details into the system and also computerized billing in the pharmacy and labs.

Advantages

- > It is fast efficient and reliable
- > Avoids data redundancy and in consistency
- Very user friendly
- Easy accessibility of data
- > Number of personal required is considerably less

Hospital Management

PROJECT SUMMARY

This Hospital Management website will be like in an online Hospital Management service provider with easy to use customizable options. The website is accessible from anywhere for all employees or staff of the hospital in private or at desktops or tablets etc. it will basically lessen the manual work and improves the quality of maintaining records and other information related to doctors or patients etc. it reduce time frame in adding any info related to hospital and thereby reduce the complexity too.

Proposed system:

This project is designed so that a person can register for free as a member for some days. It also provides fast searching for a different health type doctor and can also place an appointment.

4Modules:

There are four modules in this project.

1) Administrator Modules:

Admin can add hospital employees, add patients, and add doctors and physicians. Admin can modify the info and remove too. Admin will also take care of scheduling appointment for doctors via appointments module. Also, assign roles to different employees like a front desk executive can book appointments or schedule appointments. Admin can also assign doctors to patients or front desk can assign the same while booking appointments. A patient can also be provided with an appointment as walk-in or be provided with prior appointment booking.

2) Doctor Module:

The doctor will check his schedule and meet the patients as well. He or she can save data related to patient illness, history of the patient and his or her family, vitals can be noted down too. Separate options will be provided for saving these data. The doctor can also view the patient related visit data in the form of a report. The doctor will also prescribe medications and option will be provided with same meds. The doctor will be provided with the option to save diet plan if any.

3) Patient Module:

The patient module will have the option to view the patient history report, family history etc. details of illness, any diagnostics ordered. The report will also consist of medications prescribed. Visit wise report can also be viewed by a doctor just before checking any patient. This

module will be accessible to doctor and admin only. The option will be provided to print reports like visit reports, medication history report etc.

4) Appointment module:

This module will be for viewing the appointments for a doctor login, can be accessed by admin, front desk and nurses. It will allow booking of appointments in advance and also like walk-in appointments. The option will be provided to select the doctor for whom appointment need to be booked or assigned for walk-in appointments.

PROJECT PLANNING



Definition of project:

Hospital Management System is a system enabling hospitals to manage information and data related to all aspects of healthcare- processes, providers, patients, and more, which in turn ensures that processes are completed swiftly and effectively.

Purpose and objective:

- ➤ Processing Speed & Results
- Cost effective
- > Reduction in Errors
- ➤ Data security & Retrieving Ability
- > Improved patient care
- Quality & compliance

LANGUAGES



About HTML:



The language used to develop a web page is called Hyper Text Markup Language (HTML).

HTML is the language which is interpreted by the browser means browser is software knows how to process the web page and how to present them.

Web pages are also called HTML document consist of HTML tags. These tags are nothing but special code embedded in text to add formatting and linking information.

The HTML tag is a single to the browser that it should consider them other than just throwing the text up on the screen. Any HTML tags are beings with an open angle (<) bracket and end with close angle (>) bracket.

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<u> +</u> РНР:



PHP is a scripting language that lets you created dynamic web pages. The PHP language interpreter must be installed on the server-side in order to execute PHP commands.

The output of the interpreter execution is sent back to the client that requested the page. Thus, a dynamic web page is created.

PHP started as a personal project by Resumes Leadwort called PHP/FI. The language gained popularity and was completely rewritten by a number of programmers. The PHP3.0 was born.

Now, PHP3.0 is one of the hottest scripting languages on the web, with more than 1.000.000 sites making use of its capabilities. Currently, PHP4.0 is taking over.

CSS:



Cascading Style Sheet (CSS) is a style sheet language used for describing the presentation semantics of a document written in a markup language.

It's most common application is to style web pages written in HTML and XHTML, but the language can also be applied to any kind of XML document, including plain XML, SVG and XUL.

CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts.

This separation can improve content accessibility, provide more flexibility and control in the separation of presentation characteristics, enable multiple pages to share formatting, and reduce complexity.

Mysql:



MySql is an open source, SQL RELATIONAL Database Management System (RDBMS) that is free for many uses.

One of the most powerful features that PHP offers is its database connectivity. It has never been so easy to connect to a database management server, to update the content of a particular database, or to retrieve the data from a particular database, as it is the case by means of using simple PHP scripts.

Another very useful PHP feature is that a standard PHP distribution comes with a number of standard function libraries which allow users to write scripts that connect to a wide range of currently popular database management systems.

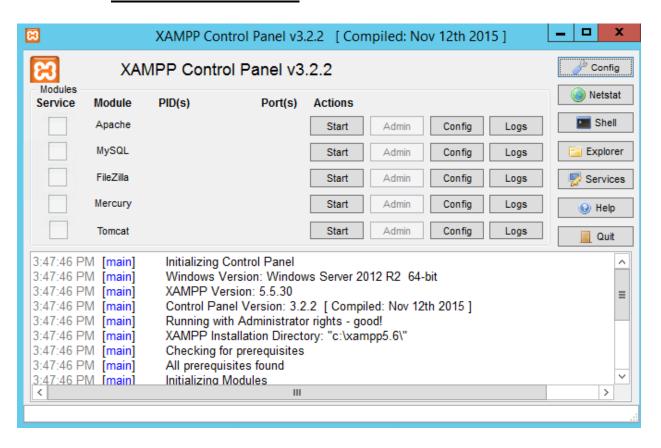
There is, for instance, a function library for manipulating Mysql databases, Oracle databases, Informix database and much more.

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DEVELOPMENT TOOL



XAMPP server:



XAMPP is a free and open sourcecros-platformweb server solution stack package, consisting mainly of the Apache HTTP Server, Mysqldatabase, and interpreters for scripts written in the PHP and Perl programming languages.

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XAMPP requires only one zip, tar, 7z, or exe file to be downloaded and run, and little or no configuration of the various components that make up the web server is required. XAMPP is regularly updated to incorporate the latest releases of Apache, Mysql, PHP and Perl.

It also comes with a number of other modules including Open SSL and PhpMyAdmin. Self-contained, multiple instances of XAMPP can exist on a single computer, and any given instance can be copied from one computer to another.

Once XAMPP is installed, it is possible to treat a Localhost like a remote host or 127.0.0.1 by connecting using an FTP client. Using a program like FileZilla has many advantages when installing a content management system (CMS) like Joomla or Wordpress.

It is also possible to connect to Localhost via FTP with an HTML editor.

The default FTP user is "new user", the default FTP password is "wamp". The default Mysql user is "root" while there is no default Mysql password.

Wamp Server:



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Stands for "Windows, Apache, MYSQL, and PHP". WAMP is a variation of LAMP for windows systems and is often installed as a software bundle (Apache, MYSQL, and PHP). It is often used for web development and internal testing, but may also be used to serve live websites.

The most important part of the WAMP package is Apache (or "Apache HTTP Server") which is used run the web server within Windows. By running a local Apache web server on a windows machine, a web developer can test webpages in a web browser without publishing them live on the Internet.

WAMP also includes MySQL and PHP, which are two of the most common technologies used for creating dynamic websites. MySQL is a high-speed database, while PHP is a scripting language that can be used to access data from the database. By installing these two components locally, a developer can build and test a dynamic website before publishing it to a public web server.

While Apache, MySQL, and PHP are open source components that can be installed individually, they are usually installed together. One popular package is called "WampServer", which provides a user-friendly way to install and configure the "WAMP" components on Windows.

The acronym WAMP refers to a set of free (open source) applications, combined with Microsoft Windows, which are commonly used in Web server environments. The WAMP stack provides developers with the four key elements of a Web server: an Operating system, database, Web server and Web Scripting software. The combined usage of these programs is called a server stack. In this stack,

Microsoft Windows is the operating system (OS), Apache is the Web server, MySQL handles the database components, while PHP, Python, or PERL represents the dynamic scripting languages.

Dream viewer cs4:



Dream viewer cs4 is used for document contains product supported all type of scripting language.

Dream viewer cs4 support web widgets a type of lightweight dream viewer extension that provides support for inserting and managing the dependent file of advance user interface control such as accordions, tabbed panels, of calendars.

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SYSTEM REQUIREMENT

Hardware:

Intel(R) Core(TM) i7-4500U CPU @ 1.80GHz
 2.40 GHz

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o 8.00 GB (7.89 GB usable) RAM

Software:

- Web Browser
- Mozilla Firefox
- XAMPP or wamp
- o Php 5.2.1
- o Mysql 5.0.45
- o PhpMyAdmin 3.3.9

PROJECT ANALYSIS

Analysis is an important part of any project; If Analysis is not done properly then whole project move in the wrong direction. It also provides a schedule for the proper project work.

➤ Analysis task divided into 3 areas

- ✓ Problem recognition
- √ Feasibility Study
- ✓ Requirement analysis

• Problem recognition

It is the phase in which the Current need for the system is to be defined. This site of Computer Peripherals & Consumables has all the up to date information.

Feasibility study

There are 3 types of Feasibility Study:

- ✓ Technical
- ✓ Operational
- ✓ Economical

Technical feasibility considers whether the project can be completed within the available technology. As our project was Website developing we get advanced web-editing tools that are available.

Operational feasibility was done to assure that the product would be developed that is used or not. A Computer Peripherals & consumables to have a website of its own. So, that's not problem for it.

• Requirement Analysis

It is a website that is a bridge between the website allocation and website design. We see this site and we feel that of the facilities that a typical website provides.

- 1. Products
- 2. Contacts
- 3. Orders

These Is the basic facilities that the good Computer Consumables website must require and all other information that we require with the Enhance of usage.

SYSTEM DESIGN

Data Flow

- ➤ A data flow diagram shows the logical flows of data through a transaction processing system of an organization.
- ➤ They are primarily used in the systems development process as a tool for analyzing an existing system.

Data Flow Description:-

> Data move in specific direction from an origin to a destination in the form of a document.

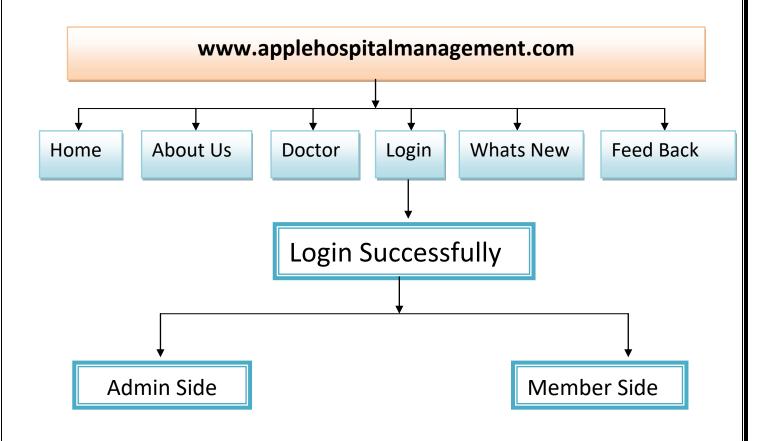
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Process:-

> Procedures or devices that use or transform data.

Source or Destination of Data:-> Source or Destination of data, which may be people, organization or other entities, interact with the system but are outside its boundary. **Data Store:-**> A Data Store referenced by a process in the system.

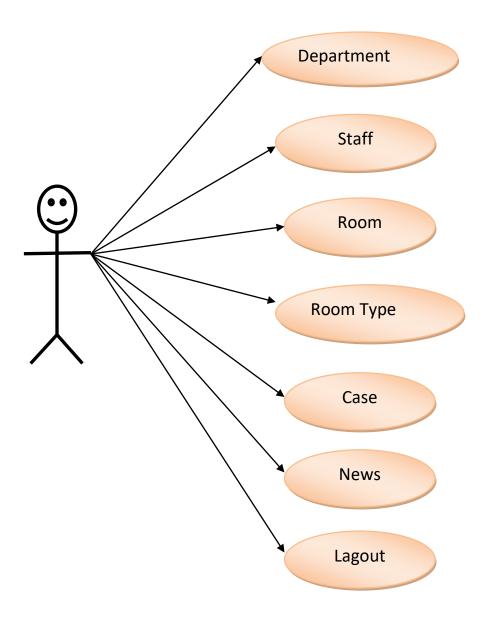
FLOW DIAGRAM



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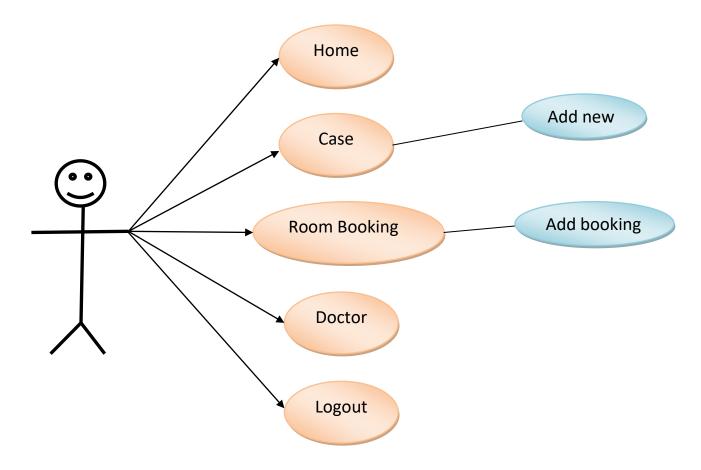
USE CASE DLAGRAM

1) Admin side:-

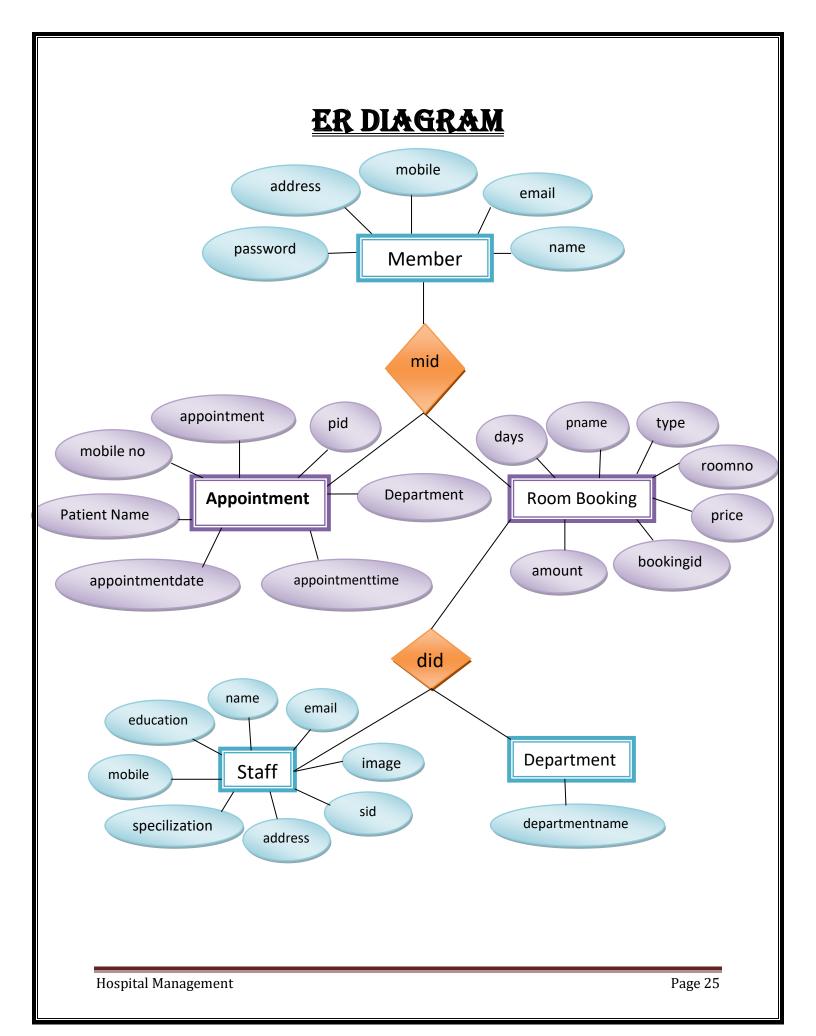


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2) Member Side:-



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DATA DICTIONARY

1. Table Name: Registration

Purpose: Add the registration of user

Field Name	Data type	Description
Mid	Int	
Name	Varchar(50)	Not null
Email	Varchar(50)	Not null
Mobile	Varchar(50)	Not null
address	Varchar(50)	Not null
Password	Varchar(50)	Not null

2. Table Name: Feedback

Purpose: Display the user review

Field Name	Data Type	Description
Fid	Int	1
Name	Varchar(50)	Not null
email	Varchar(50)	Not null
mobile no	Varchar(50)	Not null
comment	Varchar(50)	Not null

3. Table Name: Department

Purpose: To store doctor, patient information

Field Name	Data type	Description
Did	Int	
Dname	Varchar(50)	Not null

4. Table Name: Staff

Purpose: To store Doctor, reception, admin login information

Field Name	Data type	Description
Sid	Int	
Did	Int	Reference with department(did)
Name	Varchar(50)	Not null
Address	Varchar(50)	Not null
Mobile	Varchar(50)	Not null
Email	Varchar(50)	Not null
education	Varchar(50)	Not null
specialization	Varchar(50)	Not null
Image	Varchar(50)	Not null

5. Table Name: Room

Purpose: To store the room information

Field Name	Data type	Description
Roomid	Int	
room no	Varchar(50)	Not null
type	Varchar(50)	Not null
price	Varchar(50)	Not null
description	Varchar(50)	Not null

6. Table Name: Room Type

Purpose: To store the room type information

Field Name	Data type	Description
Rtid	Int	1
room no	Varchar(50)	Not null

7. Table Name: Case

Purpose: To store the case information

Field Name	Data type	Description
cid	Int	
patient name	Varchar(50)	Not null
department	Varchar(50)	Not null
appointment date	Varchar(50)	Not null

8. Table Name: News

Purpose: To store the news information

Field Name	Data type	Description
nid	Int	
title	Varchar(50)	Not null
description	Varchar(50)	Not null
my date	Varchar(50)	Not null
mobile	Varchar(50)	Not null
venue	Varchar(50)	Not null

9. Table Name: case

Purpose: To store the member's case information

Field Name	Data type	Description
cid	Int	
patient name	Varchar(50)	Not null
department	Varchar(50)	Not null
appointment date	Varchar(50)	Not null
appointment time	Varchar(50)	Not null
mobile	Varchar(50)	Not null

10. Table Name : Appointment

Purpose: To store the appointment information

Field Name	Data type	Description
pid	Int	
mid	Int	Not null
patient name	Varchar(50)	Not null
Department	Varchar(50)	Not null
appointment date	Varchar(50)	Not null
appointment time	Varchar(50)	Not null
mobile no	Varchar(50)	Not null

11. Table Name: Room booking

Purpose: To store the room booking information

Field Name	Data type	Description
bookingid	Int	
did	Int	Reference with dept(did)
mid	Int	Not null
pname	Varchar(50)	Not null
Туре	Varchar(50)	Not null
room no	Varchar(50)	Not null
price	Varchar(50)	Not null
days	Varchar(50)	Not null
amount	Varchar(50)	Not null

SCREEN SHORT

Home page



Description:- you can see home page information





HOME ABOUTUS DOCTOR LOGIN WHAT'NEW FEEDBACK

APPLE MULTI SPECIALITY HOSPITAL

Through the collaboration of physicians and specialist, Apple Hospitals provide inpatient, outpatient, diagnostic, surgical, rehabilitative, behavioral, emergency and outreach services.

Apple Hospital situated in Tolichowki & Yakutpura, Hyderabad, came into presence to provide a full range of health care services, from primary care to cutting-edge treatments of complex and care disorders. we covers the entire spectrum from illness to wellness.

We specilizes in meeting the unique physical, emotional and developmental needs of childeren from infancy through young adulthood, we measure our performance from safety, effectiveness, patient centeredness, timeliness, efficiency so as to provide better treatments that transform medical practice and patient care. Through the collaboration of physicians and specialist, Apple hospitals provide inpatient, outpatient, diagnostic, surgical, rehabilitative, behavioral, emergency and outreach services.







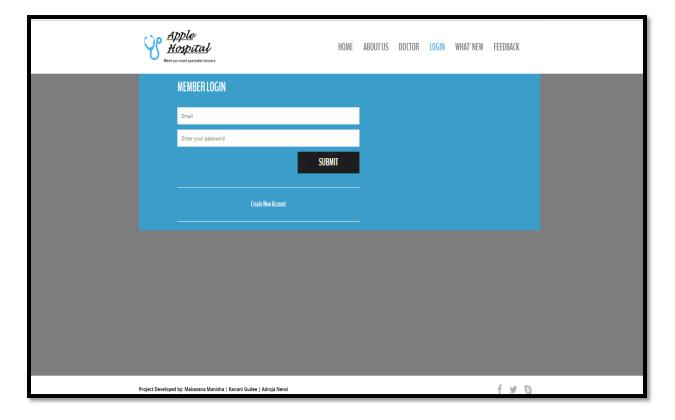
Description: you can see about us information





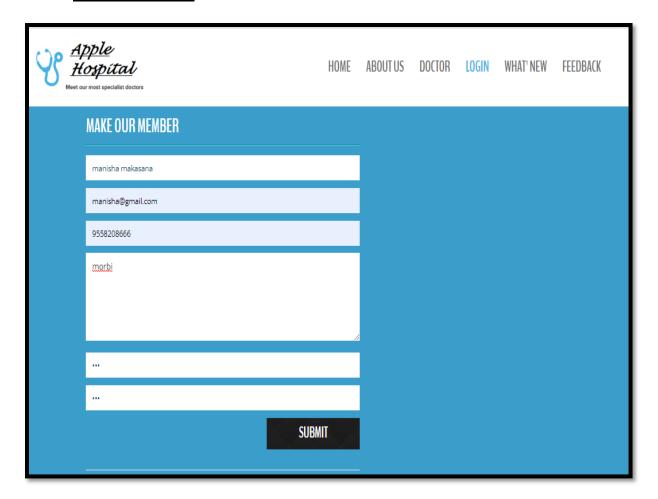
Description:- you can see available doctor here.





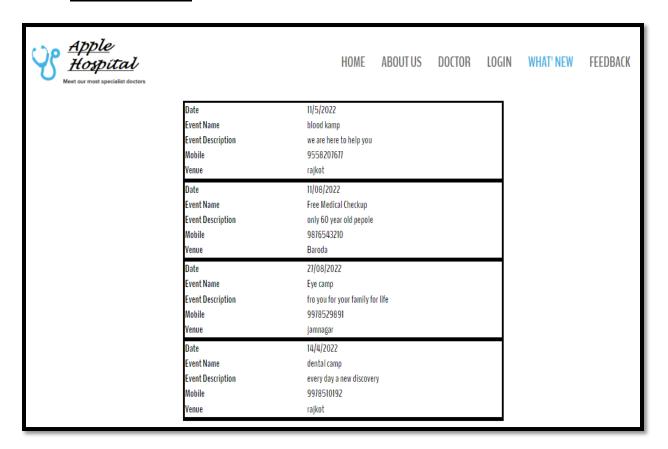
Description: The registered person will only allowed for login.

Registration



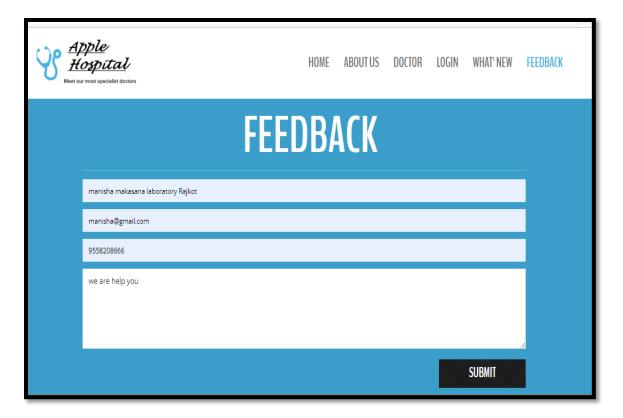
Description: you can create your account here.

What's New



Description: you can see what's new information

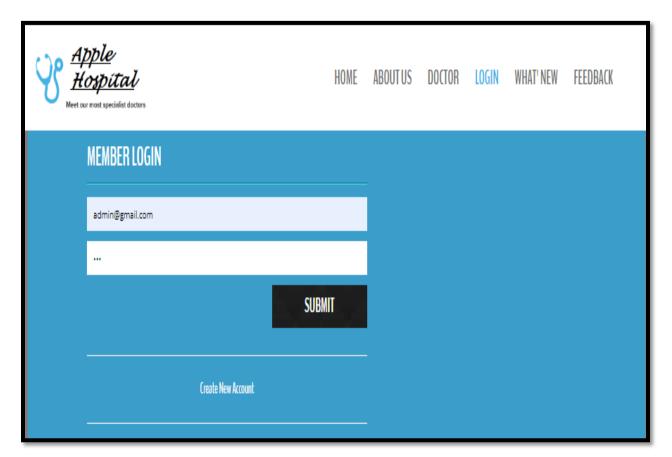
Feedback



Description: you can give your suggestion here.

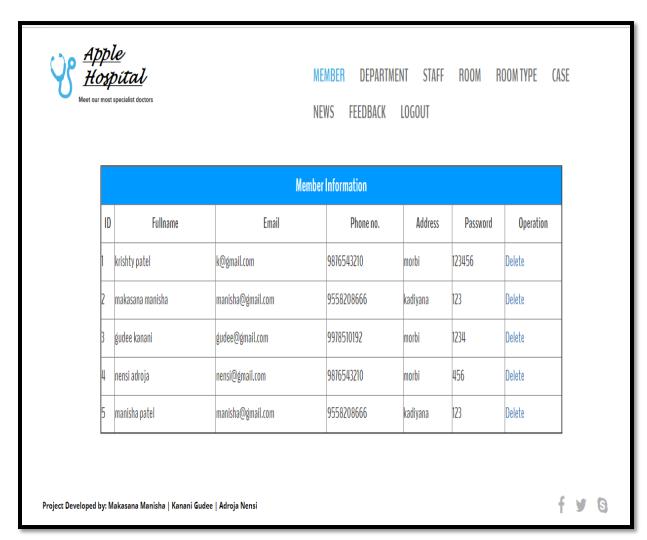
ADMIN SIDE

4Admin Login



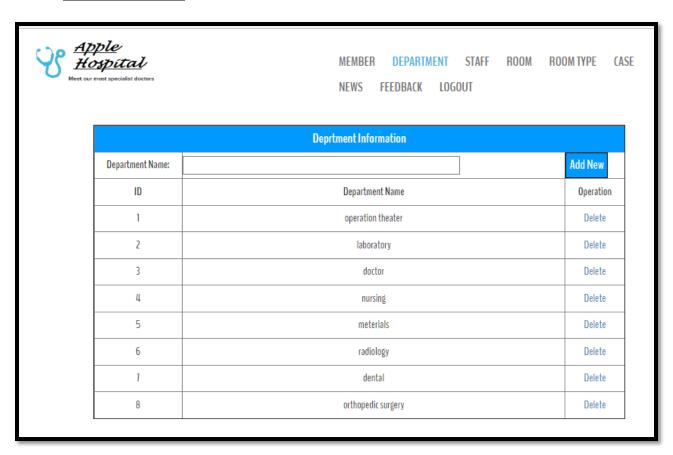
Description: you can see login of admin here.





Description: you can see admin member information.





Description: In department you can the add department.





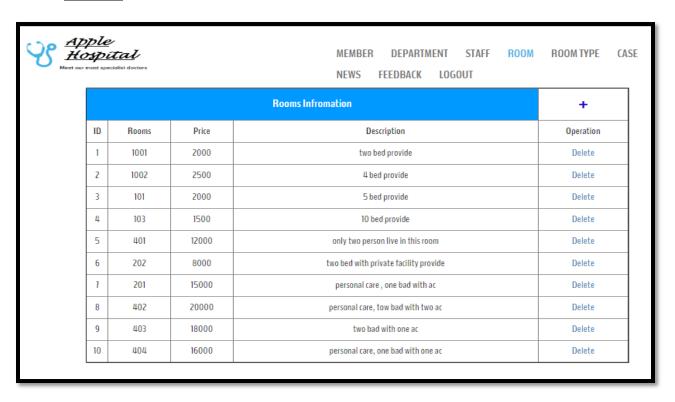
Description: In staff you can add doctor, admin, education and specialization in detail.

♣ New Staff



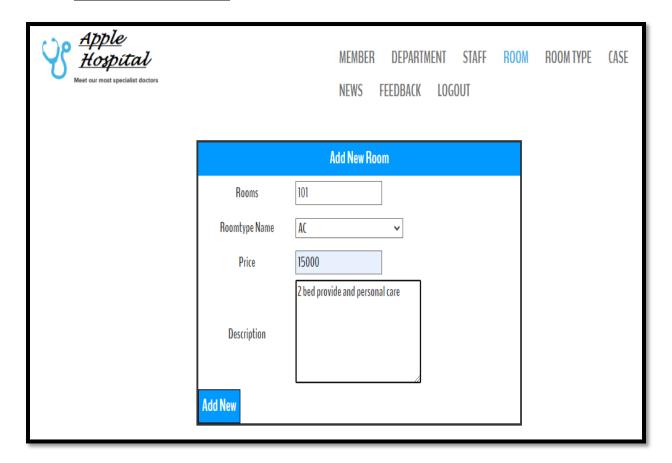
Description: you can see staff detail in add.





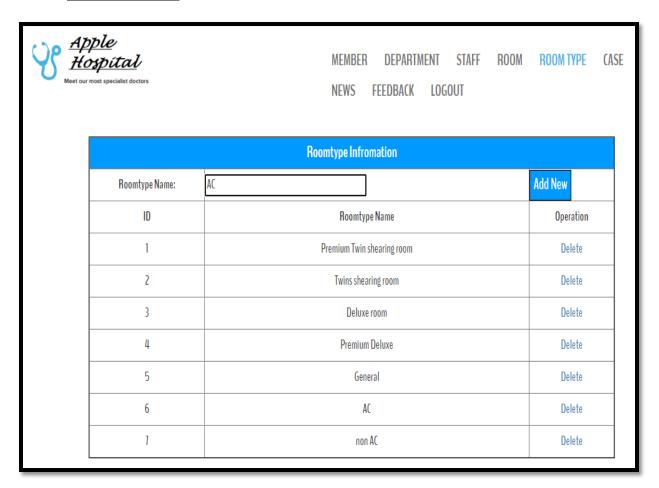
Description: you can see room information.

Add New Room



Description: you can see add new room in detail.





Description: you can see room type information.





MEMBER DEPARTMENT STAFF ROOM ROOMTYPE CASE
NEWS FEEDBACK LOGOUT

Appointment Information							
ID	Patient Name	Department	Appointment Date	Operation			
1	ditya makasana	doctor	11/7/2022	Delete			
2	pooja patel	operation	14/8/2022	Delete			
3	gudee kanani	laboratory	4/10/2022	Delete			
4	manisha patel	orthopedic	10/9/2022	Delete			
5	nensi adroja	radiology	8/10/2022	Delete			
6	krishn kanani	doctor	12/9/2022	Delete			

Description: you can see patient, appointment add department here.





Description: you can see news in delete and edit of detail.

Add News



Description: you can see news in add details.

♣ <u>Feedback</u>



MEMBER DEPARTMENT STAFF ROOM ROOM TYPE CASE

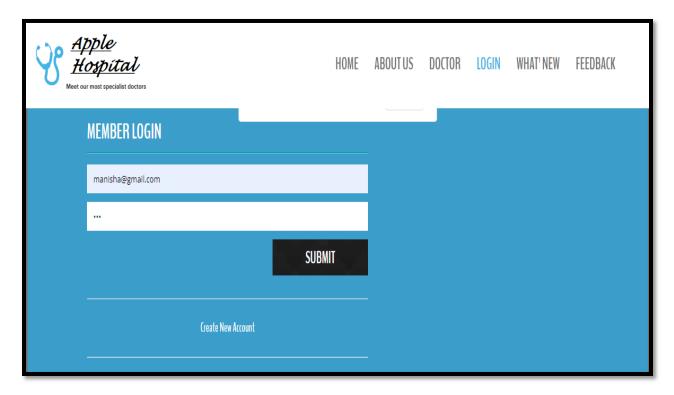
NEWS FEEDBACK LOGOUT

	Feedback Information								
ID	Fullname	Email	Phone no.	Message	Operation				
1	manisha patel	manisha@gmail.com	9558208666	i am fine	Delete				
2	varmora jinkal	jinkal@gmail.com	9558308666	hii i am fine	Delete				
3	kanani Gudee	gudee@gmail.com	9978510192	always be happy	Delete				
4	nensi adroja	nensi@gmail.com	9998297980	no less then homely care	Delete				

Description: The feedback or review give by the visitor can be display here.

MEMBER SIDE

Member login:



Description: you can see member side login page.

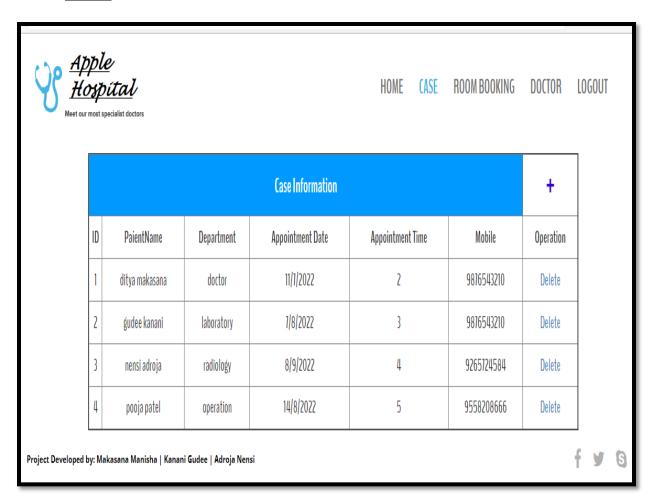
Hospital Management

<mark>∔</mark>Home



Description: you can see member side home page here.





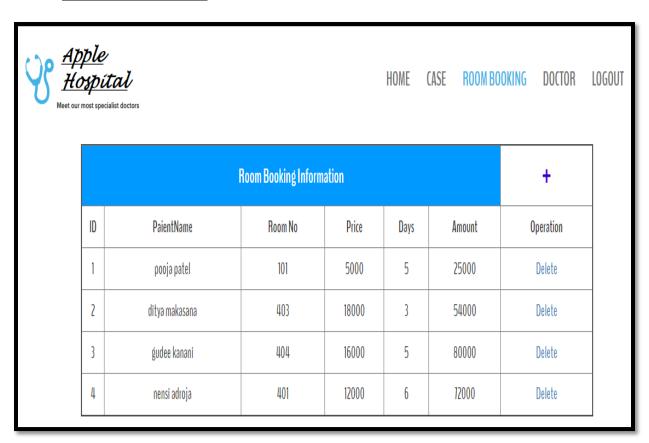
Description: Member can see number of appointment taken.

Add New Appointment



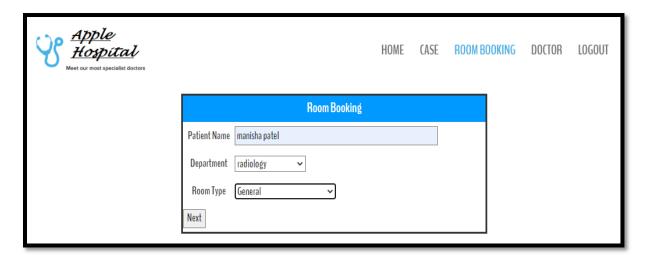
Description: you can see member side of the add new appointment detail.

Room Booking



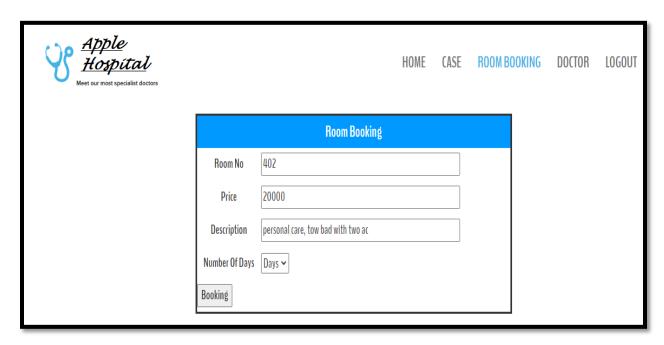
Description: member side can see room booking here.

Add Room booking



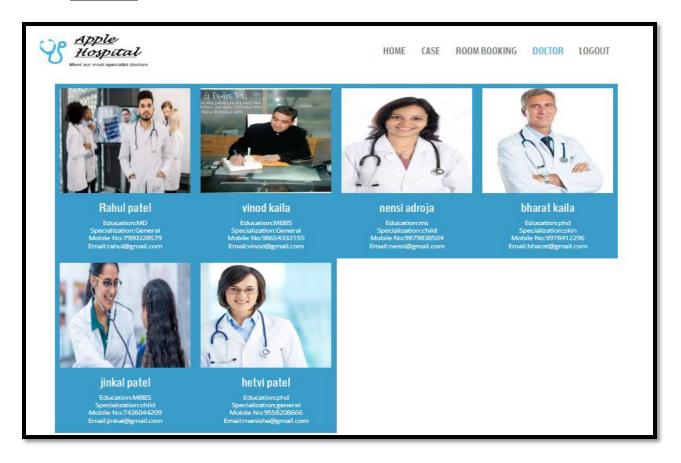
Description: you can see room booking in next.

Room Booking



Description: you can see room booking number of days in detail.





Description: you can see available doctor here.

FUTURE ENHANCEMENT

- > The proposed system is Hospital Management System.
- ➤ We can enhance this system by including more facilities like pharmacy system for the stock details of medicines in the pharmacy.
- ➤ Providing such features enable the users to include more comments into the system.
- ➤ They can start your career as Assistant Hospital administrators or Managers or consultant.
- ➤ They manage outpatient clinics, hospitals, hospices, and drugabuse treatment centers.
- ➤ After gaining experience in this field, they can be promoted to the position of CEO.
- > They can also set up your own nursing home or hospital.

BIBLIOGRAPHY

In preparing the project report I have referred the following Web site and Books.

Website:

www.online-hospital-management-system.com

www.a-health-care-management.com

www.google.com

www.youtube.com

Email:

hospitalmanagement@gmail.com

Books:

The complete Reference php.

CONCLUSION

The Project Hospital management System is for computerizing the working in a hospital.

The Software takes care of all the requirement and average hospital and is capable to provide easy and effective storage of information relates to patient that come up to the hospital.

It generates test report; provide prescription details including various test, check-up and medicines prescribed to patient and doctor.

It is also providing billing facility.

The system also provides the facility of backup as per requirement.

