

SRM University AP, Amaravathi

CSE 304 DATABASE MANAGEMENT SYSTEM

GROUP 14 (CSE-G(07))

PROJECT REPORT ON

KEVCARE HOSPITAL

PROJECT FOCUS: HEALTHCARE

By: Lakshmi Vallala

Amey Sadasivuni

Nikitha Kurapati

AP18110010416

AP18110010420

AP18110010411

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AIM: (<http://localhost/Hosp/index.html>)

This website aims to provide flexible and online means for patients to interact and book appointments with their doctors. It is also an important development during the COVID-19 Pandemic that has already claimed so many lives and destroyed families. This software makes it easier for patients by avoiding long lines, physically buying medicines and also going to the hospital when avoidable. Patients can physically be present at the hospital if and only if it is necessary saving time and efforts of both, the patients and the doctors.

ABSTRACT:

In light of recent incidents of the COVID19, the world has faced grave repercussions and is in a threatening situation. India has taken many steps to prevent the loss of lives including the commencement of a nationwide 21-day coronavirus lockdown that has been extended multiple times. Healthcare has become extensively important. More people are now educated as to why quality treatment is required to avoid future complications. An online mode of appointment and pharmacy booking system could leap in as our saviour. This initiative also contributes to the Digital India campaign launched in 2015 that allows digital and easy access to services to every citizen of the country. Digital infrastructure and technological advancements have become a tool for transparency and critical tool to curb corruption. This digital infrastructure also provides a lot of transparency, accountability and decrease in corruption.

OBJECTIVE:

Through this project, we aim to establish a relationship between XAMPP and MySQL. KEVCARE is a program that accepts doctor records and details, employee details, inventory, billing, appointments, pharmacy, OPD, IPD, etc. We can also store and input data about the Hospital records from the user.

- a. A **Database Server** and its **Client Software** need to communicate with each other and they do this by establishing a database connection. While the client can send commands using the database connection, the server can reply to the client by sending

the information asked. This database is stored on the secondary storage device or magnetic or optical disks as single or multiple files. The information that is stored in these files can be used to retrieve records.

- b. A **website** is a more interactive user interface that helps establish a user-friendly environment, unlike the command line operating system. The user interface is made to be visually appealing through colourful icons, buttons, images, scroll bars et cetera known as visual indicators.
- c. **MySQL** is an **RDBMS** (Relational database Management system) created by the Oracle Corporation. It is open-source and it can be embedded in other applications. It can also be used with TOMCAT servers to create java web applications. It is lightweight and is also portable.

TECHNOLOGIES USED:

It is an interactive user-friendly website built using HTML, CSS, JAVASCRIPT and BOOTSTRAP. The open web server solution software XAMPP(Cross-platform, Apache, MariaDB(Mysql), PHP and Perl) which is a local server was used to satisfy database requirements. The RDBMS(Relational database management system) MySQL has been used as the back end software. It has been developed by the Oracle Corporation.

ASSUMPTIONS TAKEN:

We have considered the following assumptions while creating the KEV CARE portal:

- There is access to smart devices (smartphone, laptop, computer) and a minimum of 5 Mbps internet bandwidth
- We also assume that users have online modes of payment to ensure a completely online payment portal to reduce transmission of coronavirus through notes.
- For the doctors to be able to provide online consultation, we assume that users have applications such as zoom or skype installed.

DETAILS HANDLED:

KEV CARE is a user-friendly website that allows people to book appointments with the doctors of their choice by providing their details. The user can also view the following services:

- Doctor records (Detailed data for each Doctor Doctor ID, Name, Specialisation, Qualification, phone number and Email ID)
- Inventory
- Billing (Transparent and printable bill for the cost of stay at the hospital, services offered and doctor's fees)
- Contact us and get in touch page

Patient records are created and handled by the employees. They can create a patient record while taking a few necessary details (Full name, Gender, Age, blood group, Mobile number, address) They are allotted unique patient IDs(auto-incremented).

Patients can schedule appointments with any one of the reputed doctors across various departments. The patients and doctors can also view their prescriptions and medical history to keep an accurate and chronological track of the development of the patient's problem to provide a better diagnosis.

KEV CARE also provides India's current covid19 situation- Details about what the pandemic is all about, the symptoms, helpline number, link to the official website of Government of India, precautions to prevent the disease and case statistics et cetera updated every day.

WORKFLOW:

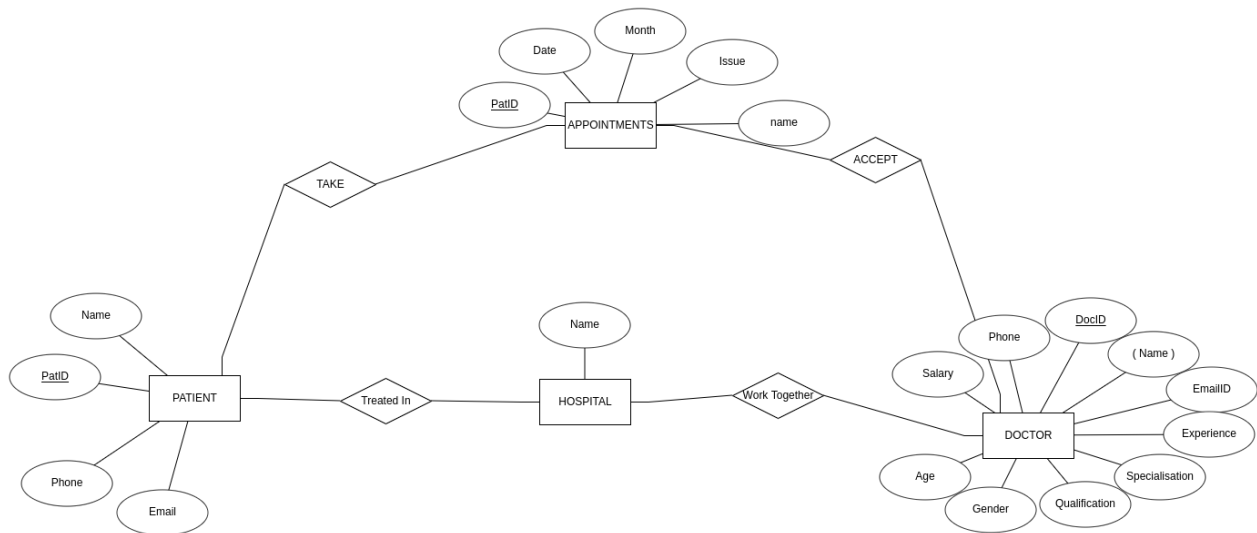
The flow of control between:

Home

- Home
- About Us (about KevCare)
- Services (Services provided by KevCare)

- Doctors (The doctors who shaped KevCare)
- Pharmacy
- Testimonials
- Records (Doctors on Current Duty with their specialisation details)
- Contact Us (Contact us or get in touch with us using this page)

ERD:



RELATED WORKS/LITERATURE SURVEY

1. The official website of YASHODA
2. The **IndiaMART**, (my.indiamart.com/) an Indian e-commerce site provides COVID-19 supplies that include a wide range of products ranging from sanitisers and disposable gloves to ventilators, patient monitors and hospital beds.
3. **Narang Medical Limited** is a secure medical equipment supplier that also includes covid19 supplies which can be bought by users after registering.
4. The online application GENESIG allows the purchase of coronavirus medical kits amongst many other kits. They even deliver these medical kits to India. However, the website is not secure and hence not reliable.

SYSTEM REQUIREMENTS:

XAMPP:

+ 64 MB RAM (RECOMMENDED)

+ 350 MB free fixed disk

+ Windows 2003, XP (RECOMMENDED), VISTA, Windows 7

MySQL:

- CPU: Intel Core or Xeon 3GHz (or Dual Core 2GHz) or equal AMD CPU
- Cores: Single (Dual/Quad Core is recommended)
- RAM: 4 GB (6 GB recommended)
- Graphics Accelerators: Nvidia or ATI with support of OpenGL 1.5 or higher
- Display Resolution: 1280×1024 is recommended, 1024×768 is minimum.
- Windows 7 (64-bit, Professional level or higher)
- Mac OS X 10.6.1+
- Ubuntu 9.10 (64bit)
- Ubuntu 8.04 (32bit/64bit)

6. RESULTS/PERFORMANCE ANALYSIS

The screenshot shows the phpMyAdmin web interface. On the left is a sidebar with a tree view of databases and tables. The main area is titled 'Server: 127.0.0.1 » Database: hospital'. Below the title is a navigation bar with tabs: Structure, SQL, Search, Query, Export, Import, Operations, Privileges, Routines, and Events. The 'Structure' tab is active, showing a table list. Above the table list is a 'Filters' section with a search box labeled 'Containing the word:'. The table list has columns: Table, Action, Rows, Type, Collation, Size, and Overhead. The tables listed are 'appointment', 'contact', 'drecords', and 'git'. At the bottom of the table list is a summary row: '4 tables', 'Sum', '9', 'InnoDB', 'utf8mb4_general_ci', '64.0 K1B', and '0 B'. Below the table list is a 'Check all' checkbox and a 'With selected:' dropdown menu.

Table	Action	Rows	Type	Collation	Size	Overhead
appointment	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	16.0 K1B	-
contact	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	16.0 K1B	-
drecords	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 K1B	-
git	Browse Structure Search Insert Empty Drop	1	InnoDB	utf8mb4_general_ci	16.0 K1B	-
4 tables	Sum	9	InnoDB	utf8mb4_general_ci	64.0 K1B	0 B

phpMyAdmin

Recent

Favorites

New

hospital

New

appointment

contact

drecords

git

information_schema

mysql

performance_schema

phpmyadmin

test

Server: 127.0.0.1 » Database: hospital » Table: drecords

Browse

Structure

SQL

Search

Insert

Export

Import

Privileges

Operations

Tracking

Triggers

Showing rows 0 - 3 (4 total, Query took 0.0007 seconds.)

SELECT * FROM `drecords`

☐ Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

+ Options

id

name

gender

age

salary

specialisation

qualification

experience

email

phone

☐

Edit

Copy

Delete

1

ABC

1

12

50000

ORTHO

SURGEON

9y

DEF@gmail.com

7485938495

☐

Edit

Copy

Delete

2

Dr Pratap Suri

0

43

70000

Ophthalmologist

BA,MBBS

5 years

pratap@gmail.com

7485938433

☐

Edit

Copy

Delete

3

Sushil K

0

34

50200

E.N.T

MCAT MBBS

14 years

drsuri@gmail.com

738593573

☐

Edit

Copy

Delete

4

Sara

1

27

45000

Urologist

M.D

5 years

sara@gmail.com

874264224

☐ Check all

With selected: Edit Copy Delete Export

☐ Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Query results operations



HI, WELCOME TO KEVCARE HOSPITALS!

[Home](#) [About us](#) [Services](#) [Doctors](#) [Pharmacy](#) [Testimonials](#) [Records](#) [Contact](#)

Hello!



Emergency Case

KevCare provides 24/7 Emergency Services for our patients.



Working Hours

Monday - Friday	08:00 - 23:00
Saturday	08:00 - 20:00
Sunday	08:00 - 14:00

Emergency services provided 24/7*



Clinic Timetable

Login or contact your health care provider for more details.



PREMIUM FACILITIES



LARGE LABORATORY



DETAILED SPECIALIST



CHILDREN CARE CENTER



FINE INFRASTRUCTURE



ANYTIME BLOOD BANK

+ Book Appointment

Rahul Ramanujan

RRamanujan@gmail.com

11

December

Dr Drake Ramoray

Chest Pain for the past 5 days.



Submit

+ Book Appointment

Rahul Ramanujan

RRamanujan@gmail.com

11

December

Dr Drake Ramoray

Chest Pain for the past 5 days.

Submit

Sent Successfully! Thank you Rahul Ramanujan, We will contact you shortly!

Back to Home

phpMyAdmin

Recent

Favorites

New

hospital

New

appointment

contact

records

git

information_schema

mysql

performance_schema

phpmyadmin

test

Server: 127.0.0.1 - Database: hospital - Table: appointment

Browse

Structure

SQL

Search

Insert

Export

Import

Privileges

Operations

Tracking

Triggers

Showing rows 0 - 1 (2 total, Query took 0.0007 seconds.)

SELECT * FROM `appointment`

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Options

id

name

email

day

time

doctor

message

1

LAKSHMI VALLALA

lakshmivallala11@gmail.com

Monday

AM

Mr.XYZ

jkwsd

4

Rahul Ramanujan

RRamanujan@gmail.com

11

December

Dr Drake Ramoray

Chest Pain for the past 5 days.

Check all

With selected:

Edit

Copy

Delete

Export

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Query results operations

Print

Copy to clipboard

Export

Display chart

Create view

Bookmark this SQL query

Label:

Let every user access this bookmark



CONTACT US

PO Box 16122 Collins Street West Victoria
8007 Australia
info@gmail.com
(+1) 800 123 456

SUBSCRIBE

Get healthy news, tip and solutions to your
problems from our experts.

SurajKumar@gmail.com

8473942942



phpMyAdmin

Server: 127.0.0.1 » Database: hospital » Table: contact

Recent Favorites

New hospital New appointment contact records git information_schema mysql performance_schema phpmyadmin test

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 2 (3 total, Query took 0.0008 seconds.)

SELECT * FROM `contact`

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

email	phone
abcde@gmail.com	8437484357
DEF@gmail.com	8324493424
SurajKumar@gmail.com	8473942942

☐ Show all | Number of rows: 25 | Filter rows: Search this table

KivCare

Get in Touch

LAKSHMI VALLALA lakshmivallala1@gmail.com

09951502754 Visit

Absolutely happy to have opted for KivCare.

Send Message

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 1 (2 total, Query took 0.0014 seconds.)

SELECT * FROM `git`

☐ Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

name	email	phone	subject	message
ABC	DEF@gmail.com	8274829402	Treatment	Wonderful service!
LAKSHMI VALLALA	lakshmivallala11@gmail.com	0995150275	Visit	Absolutely happy to have opted for KivCare.

☐ Show all | Number of rows: 25 | Filter rows: Search this table



THIS PAGE DISPLAYS DOCTORS AVAILABLE FOR TODAY FROM A DATABASE:

name	email	specialisation	qualification	experience	phone
ABC	DEF@gmail.com	ORTHO	SURGEON	9y	7485938495
Dr Pratap Suri	pratap@gmail.com	Ophthalmologist	BA,MBBS	5 years	7485938433
Sushil K	drsuri@gmail.com	E.N.T	MCAT MBBS	14 years	738593573
Sara	sara@gmail.com	Urologist	M.D	5 years	874264224

phpMyAdmin

Server: 127.0.0.1 » Database: hospital » Table: drecords

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Recent Favorites

New

hospital

New

appointment

contact

drecords

git

information_schema

mysql

performance_schema

phpmyadmin

test

Showing rows 0 - 3 (4 total, Query took 0.0007 seconds.)

SELECT * FROM `drecords`

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

		id	name	gender	age	salary	specialisation	qualification	experience	email	phone
<input type="checkbox"/>	Edit Copy Delete	1	ABC	1	12	50000	ORTHO	SURGEON	9y	DEF@gmail.com	7485938495
<input type="checkbox"/>	Edit Copy Delete	2	Dr Pratap Suri	0	43	70000	Ophthalmologist	BA,MBBS	5 years	pratap@gmail.com	7485938433
<input type="checkbox"/>	Edit Copy Delete	3	Sushil K	0	34	50200	E.N.T	MCAT MBBS	14 years	drsuri@gmail.com	738593573
<input type="checkbox"/>	Edit Copy Delete	4	Sara	1	27	45000	Urologist	M.D	5 years	sara@gmail.com	874264224

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

ONLINE PHARMACY

PACK 2

2000/-

- 5 Disposable Face Masks
- 2 Medical Protective gloves
- 2 Goggles
- 5 Sanitisers
- 10 N95 Masks

PACK 2

2500/-

At lower costs for you.

- 5 Disposable Face Masks
- 5 Medical Protective gloves
- 5 Goggles
- 10 Sanitisers
- 15 N95 Masks

PACK 3

4000/-

- 10 Disposable Face Masks
- 10 Medical Protective gloves
- 10 Goggles
- 20 15 Sanitisers
- 15 N95 Masks

New

hospital

New

appointment

contact

drecords

git

pharmacy

information_schema

mysql

performance_schema

phpmyadmin

test

SELECT * FROM `pharmacy`

Show all

Number of rows: 25

Filter rows: Search this table

+ Options

id

name

email

phone

pack

pay

address

2

LAKSHMI V

lv@gmail.com

8385935839

Pack 2

Cash

Random Street number, random place, India

Check all

With selected:

Edit

Copy

Delete

Export

Show all

Number of rows: 25

Filter rows: Search this table

Query results operations

Print

Copy to clipboard

Export

Display chart

Create view

+ ADD TO CART

LAKSHMI V

lv@gmail.com

8385935839

Pack 1

Pack 2

Cash

Random Street number, random place, India

Place Order

You've placed your order successfully! Thank you LAKSHMI V, We will contact you shortly!

[Back to Home](#)



HI, WELCOME TO KEVCARE HOSPITALS!

[Home](#)

[About us](#)

[Services](#)

[Doctors](#)

[Pharmacy](#)

[Testimonials](#)

[Records](#)

[Contact](#)

+ ADD TO CART

Your Name

Email Address

Phone number

Pack 1

Pack 2

Pay after delivery

Address

Place Order



Testimonials

SAMPLE SCENARIOS:

During the lockdown, a person named X, a local bank employee lives with X's parent who is more prone to contract the coronavirus. X goes to the bank to work everyday and hence has researched a lot about coronavirus and is still extremely sceptical and scared to be the mediator between corona and X's 70-year-old parent. X also had a cold and the fear turned scarier. X used the Kev Care portal to firstly, be informed precisely as to what coronavirus is and how it impacts the elderly. X also made an appointment with a doctor on board and scheduled an online meeting for

the doctor to diagnose and guide X. X was asked to make an appointment as the situation was unavoidable, hence X left to the hospital and took the test. X had enrolled for life insurance and hence was treated in the hospital until X recovered.

WHO CAN USE THIS APPLICATION IN REAL LIFE:

This software is not only limited to hospitals, but it can also be extended and fine-tuned to any management systems such as in libraries, warehouses, banks, hotels et cetera.

CONCLUSION

While people still try hard every day, working remotely, students receiving their education through online video conferencing platforms such as Zoom, we have truly understood how technological advancements have leapt in the way we think. A guiding principle between individuals and a hospital is transparency. It should be used to accelerate this fight towards the disease and to expedite it and rebuild a society everyone can trust.