

Final Report

HOSPITAL MANAGEMENT SYSTEM

CSE326 : INTERNET PROGRAMMING LABORATORY

By

Sr. No.	Registration No	Name of Students	Roll No	Total Marks	Marks Obtained	Signature
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2	11917376	Prince Kumar	47			
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APPENDIX 1
TITLE OF PROJECT
HOSPITAL MANAGEMENT SYSTEM

ENDTERM REPORT

by

Mrityunjay Reddy

K19PD

45

Prince Kumar

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47

Akhil Vibhakar

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48



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April-2020

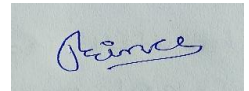
APPENDIX 2

Student Declaration

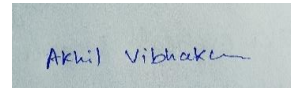
This is to declare that this report has been written by us. No part of the report is copied from other sources. All information included from other sources have been duly acknowledged. We aver that if any part of the report is found to be copied, we are shall take full responsibility for it.



Mrityunjay Reddy
Roll number: 45



Prince Kumar
Roll number: 47



Akhil Vibhakar
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APPENDIX 3

TABLE OF CONTENTS

TITLE	PAGE NO.
1. Background and objectives of project assigned	01-02
2 Description and implementation of project... ..	03-06
3 Description of work distribution.....	07
4 SWOT Analysis.....	08

APPENDIX 4

BONAFIDE CERTIFICATE

Certified that this project report “HOSPITAL MANAGEMENT SYSTEM” is the bonafide work of “Mrityunjay Reddy, Prince Kumar and Akhil Vibhakar” who carried out the project work under my supervision.

Nandini
Asst professor
23493
Department of computer science engineering

BACKGROUND AND OBJECTIVES OF THE PROJECT ASSIGNED

INTRODUCTION

As long as each stage implementation needs to be accurate and explicit, the clinic management system provides certain automation of many vital daily processes. The hospital system software covers the services that unify and simplify the work of healthcare professionals as well as their interactions with patients.

There is always the wide choice of features that can be included in the system. Moreover, the most important thing they are created to streamline various procedures that meet the needs of all the users. The hospital management system feature list is concentrated on providing the smooth experience of patients, staff and hospital authorities. It might seem that their expectations differ, they still are covered by components of the hospital information system. Quality and security still remain the main criteria of the medical industry. It is also known for the constant and rapid changes to improve the efficiency of medical services and satisfaction of the patients.

Hospital management has greatly changed over the last decades. Business expertise, modern technologies, connected devices, mobile apps, and knowledge of healthcare are key elements for the implementation of hospital management system project. The number of healthcare providers has increased and the patients have a wide choice of medical specialists. The interactions between the hospital and the patient can be simplified for the convenience of both sides. Each institution has the opportunity to create the efficient, clear and fast delivering healthcare model.

Depending on the hospital management system software features, it can deal with a lot of tasks. It helps to outline and implement policies, guarantee communication and coordination between employees, automate routine tasks, design the patient-oriented workflows, advertise services, manage human and financial resources and provide the uninterrupted supply chain. The components of a hospital information system can be chosen and combined in the general system that meets the needs and norms of the healthcare industry as well as quality standards. One of the main requirements of the clinic management system is security. All medical records have to be protected and only accessible for the allowed users. The convenient and informative interfaces should correspond to their roles and responsibilities in order to protect the confidential data.

Since the purpose of the hospital information system is the arrangement of necessary, precise and appropriate data, the hospitals should ensure the system work and can be accessed at any time. The online hospital management system and desktop (on-premise) solutions are possible options of the healthcare providers. This could be a unique system for the certain institution, chain of clinics, state hospitals or even the international medical organizations. It is usually started with the basic version that can be scaled up.

OBJECTIVES:

- *Design a system for better patient care.*
- *Reduce hospital operating costs.*
- *Provide MIS (Management Information System) report on demand to management for better decision making.*
- *Better co-ordination among the different departments.*
- *Provide top management a single point of control.*
- *Hospital Management System handles activities of major departments in a hospital like:*

1. *Front Office/OPD Management*

2. *Patient management (scheduling, registration and long-term care)*

3. *Patient care management and departmental modules (radiology, pharmacy and pathology labs)*

4. *Investigative Labs*

5. *Billing*

6. *Medical Stores*

7. *Financial Accounting (billing, insurance processing, materials management, accounts payable/receivable, payroll and general ledger)*

8. *Payroll*

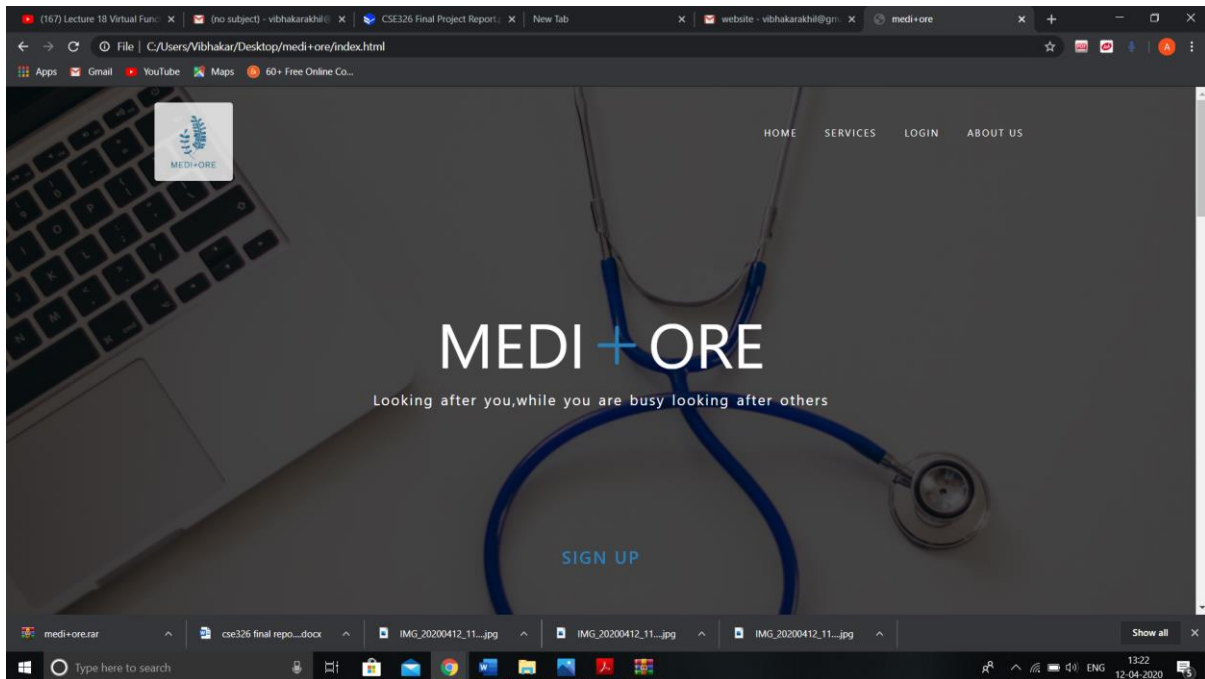
MOTIVATION

As the globe is suffering from the pandemic of COVID-19, the hospitals are hotspot of both cure and curse. The virus may spread drastically due to accumulation of the infected and non- infected at one place.

In such situation an online software like HOSPITAL MANAGEMENT SOFTWARE is a means of protection for the people.

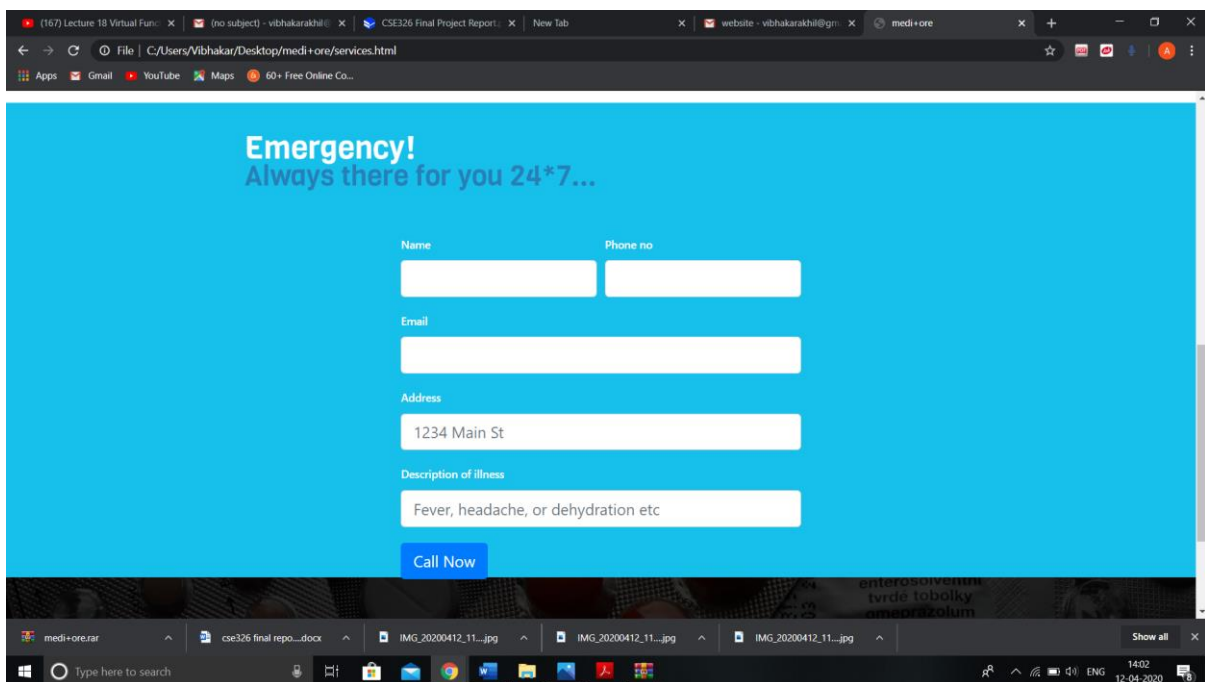
DESCRIPTION AND IMPLEMENTATION OF PROJECT

Home



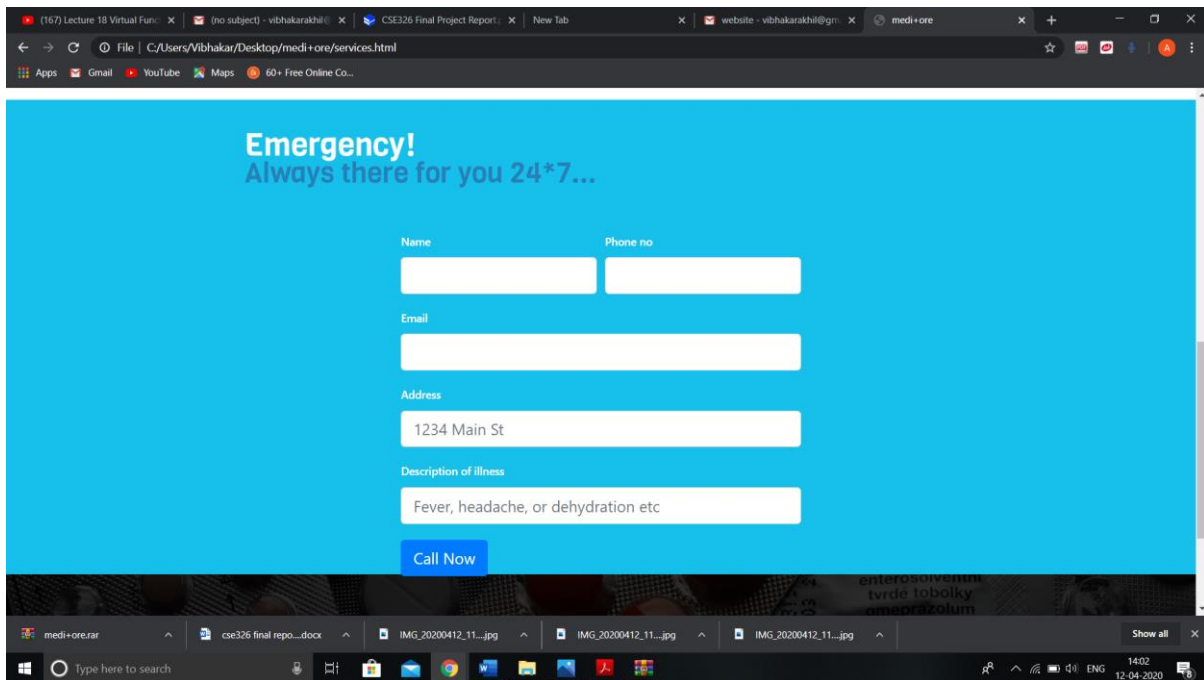
It is the main web page the visitors is navigating to. It is to facilitate navigation to other pages on site by providing links to prioritized and recent flu, virus attacks, successful operations, news regarding medical achievements.

Department



This module will include the different departments available in the hospital.

Emergency



Emergency!
Always there for you 24*7...

Name

Phone no

Email

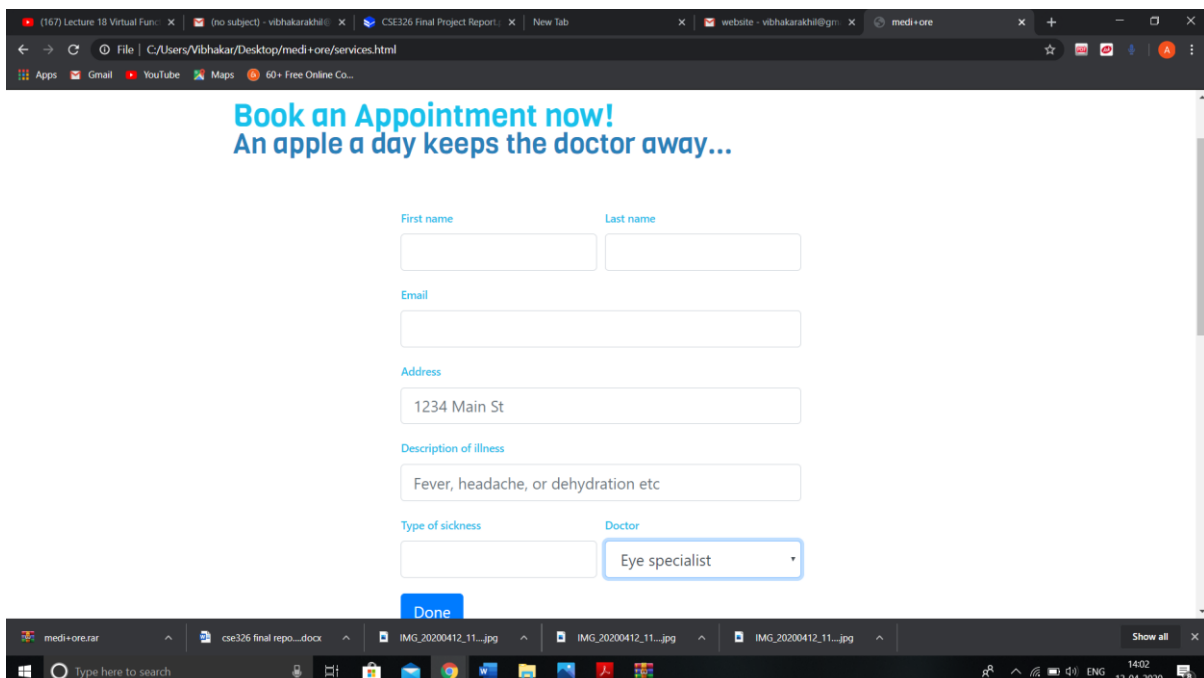
Address

Description of illness

[Call Now](#)

This will include emergency helpline number the ambulance number, on call assistance which could help the patients from distance, if possible.

Book Appointment



Book an Appointment now!
An apple a day keeps the doctor away...

First name

Last name

Email

Address

Description of illness

Type of sickness

Doctor

[Done](#)

This module will include the schedule of the doctors of different department and their availability so that patients could book appointments online only.

Doctors

The screenshot shows a web browser window with the URL `C:/Users/Vibhakar/Desktop/medi+ore/services.html`. The page features a blue header with the text "Book an Appointment now!" and "An apple a day keeps the doctor away...". Below this is a form with the following fields:

- First name:
- Last name:
- Email:
- Address:
- Description of illness:
- Type of sickness: (A dropdown menu is open showing options: Choose..., OPD, Eye specialist, Dentist, Neuro, Orthopedic, and Orthopedic.)

A blue "Done" button is located at the bottom of the form.

This will provide with information about the doctors of different departments, their degree, achievements and all.

My account

The screenshot shows the "My Account Log in" page on the medi+ore website. The page has a blue header with the text "MEDI+ORE". Below the header is a white section with the text "We offer the best medical services out there the Doctor you can trust..." and the Medi+ore logo. To the right of this section is a blue box with the text "My Account Log in". Inside the blue box are the following fields:

- Email address:
- Password:
- ☐ Check me out
- Log in button

At the bottom of the page, there is a footer with the text "Copyright © 2020 by MEDI+ORE. All rights reserved."

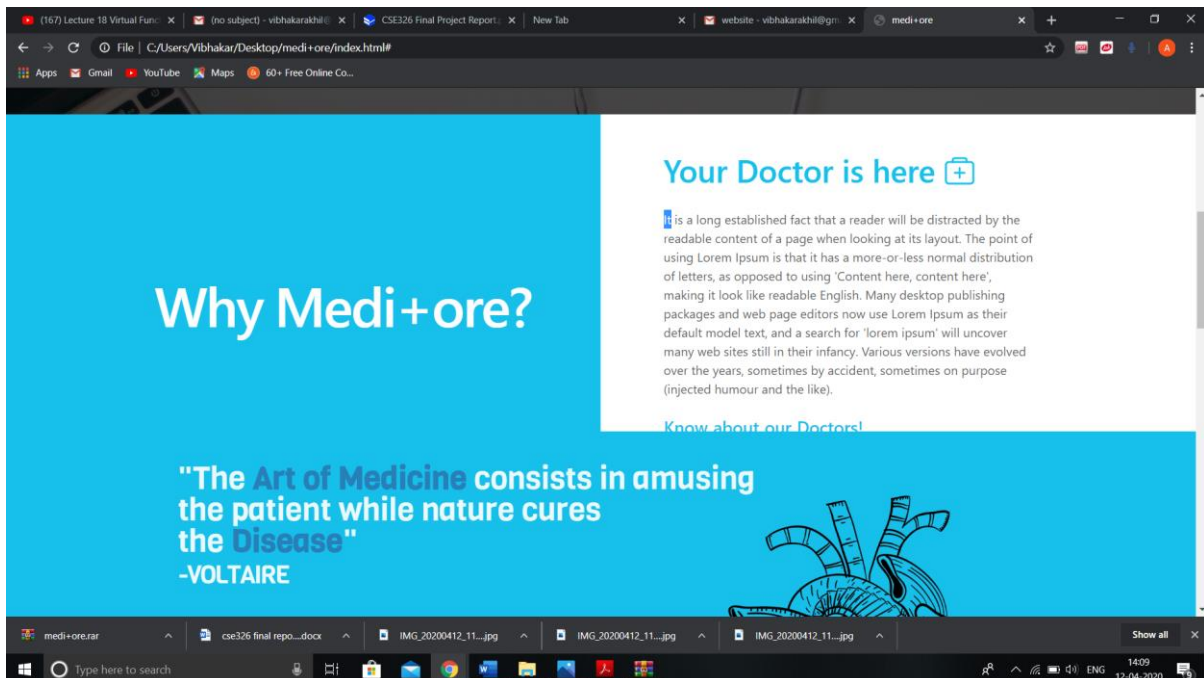
This will contain all the information about the user which he/she filled at the time of sign up.

Appointment details

The screenshot shows a web browser window with the URL `C:/Users/Vibhakar/Desktop/medi+ore/services.html`. The page has a navigation bar with links for HOME, SERVICES, LOGIN, and EMERGENCY. The main heading is "Book an Appointment now!" with the tagline "An apple a day keeps the doctor away...". Below this is a form with the following fields: First name, Last name, Email, Address (pre-filled with "1234 Main St"), Description of illness (pre-filled with "Fever, headache, or dehydration etc"), Type of sickness, and Doctor. The Windows taskbar at the bottom shows the date as 12-04-2020 and time as 14:00.

This module will include the complete information about the previous and current appointment details, cabin number, date and time etc.

About us



This is containing information about the developers of website, their aim and motivation.

DESCRIPTION OF WORK DISTRIBUTION

<i>Module</i>	<i>Details of Students making the module</i>
<ul style="list-style-type: none">• <i>Home</i>• <i>Appointment details</i>• <i>Doctors</i>	<i>Mrityunjay Reddy</i> <i>Reg. no. – 11915922</i> <i>Roll no. - 45</i>
<ul style="list-style-type: none">• <i>Book appointment</i>• <i>Department</i>• <i>Emergency</i>	<i>Prince Kumar</i> <i>Reg. no. – 11917376</i> <i>Roll no. - 47</i>
<ul style="list-style-type: none">• <i>Login and Sign up</i>• <i>Services</i>• <i>My Account</i>• <i>About us</i>	<i>Akhil Vibhakar</i> <i>Reg. no. - 11910509</i> <i>Roll no.- 48</i>

TECHNOLOGIES AND FRAMEWORK TO BE USED

- ***JavaScript:-*** *JavaScript is the Programming Language for the Web. JavaScript can update and change both HTML and CSS. JavaScript can calculate, manipulate and validate data.*
- ***CSS:-*** *CSS is a language that describes the style of an HTML document. CSS describes how HTML elements should be displayed. This tutorial will teach you CSS from basic to advanced.*
- ***Html:-****It is a markup language to create static webpages. It stands for “Hyper Text Markup Language”.*

SWOT Analysis

Strength:-

- *Improved Processes*
- *Digital medical records*
- *Staff interaction*
- *Facility management*
- *Financial control and tax planning*
- *Market strategy*
- *Insurance claims processing*
- *Less time consuming*
- *Patient self-service*
- *Better customer experience*

Weakness:-

- *If the website is flooded and there is a case of emergency the software would not be able to provide services to the patient.*

Opportunities:-

- *The project may be selected by the hospital which will lead to job experience and early earnings.*
- *At such a pandemic situation of COVID-19, this can provide us with safe facilities and services.*

Threats:-

- *Someone could access the medical information of an individual by hacking the website.*