GALGOTIAS UNIVERSITY

(Established under Galgotias University Uttar Pradesh Act No. 14 of 2011)

HEALTHCARE WEB SOLUTION

A Report for the Evaluation 3 of Project 2

Submitted by

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(1613101616/16SCSE101311)

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING WITH SPECIALIZATION OF CLOUD COMPUTING AND VIRTUALIZATION

SCHOOL OF COMPUTING SCIENCE AND ENGINEERING

Under the Supervision of

Miss Swati Sharma

Assistant Professor

APRIL / MAY- 2020

SCHOOL OF COMPUTING AND SCIENCE AND ENGINEERING

BONAFIDE CERTIFICATE

Certified that this project report **"HEALTHCARE WEB SOLUTION"** is the bonafide work of "**SAKSHI RAJ (16SCSE101311/1613101669)"** who carried out the project work under my supervision.

SIGNATURE OF HEAD

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School of Computing Science & Engineering

SIGNATURE OF SUPERVISOR

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Assistant Professor
School of Computing Science & Engineering

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ABSTRACT

This project deals with the Corporate Medicare Management. This project is very helpful to both Medicare staff as well as to the public. All the branches of the Medicare can be integrated with one to another. So anybody can get the status of each branch easily from the Medicare center. People can take appointments online by approaching the website of Medicare Center. That site also includes Information about the Facilities, Specialties available in every Medicare Branch. So they can also send their problems about their health and get some useful tips from the doctors.

1. INTRODUCTION

1.1 Overall Description :

This project deals with the Corporate Medicare Management. This project is very helpful to both Medicare staff as well as to the public. It is having mainly Administration and Client modules. The growing quality demand in the hospital sector makes it necessary to exploit the whole potential of stored data efficiently, not only the clinical data, in order to improve diagnoses and treatments, but also on management, in order to minimize costs and improve the care given to the patients.

In this sense, Data Mining (DM) can contribute with important benefits to the health sector, as a fundamental tool to analyze the data gathered by hospital information systems (HIS) and obtain models and patterns which can improve patient assistance and a better use of resources and pharmaceutical expense.

Data Mining is the fundamental stage inside the process of extraction of useful and comprehensible knowledge, previously unknown, from large quantities of data stored in different formats, with the objective of improving the decisions of companies, organizations or institutions where the data have been gathered.

However, data mining and the overall process, known as Knowledge Discovery from Databases (KDD), is usually an expensive process, especially in the stages of business objectives elicitation, data mining

objectives elicitation, and data preparation. This is especially the case each time data mining is applied to a hospital: many meetings have to been held with the direction of the hospital, area coordinators, computer scientists, etc., to establish the objectives, prepare the data, the mining views and for training the users to general DM tools.

1.2 PURPOSE

In Medicare management situations we are dealing with Data Mining objectives such as:

1. To optimize bed occupation.
2. To improve the use of operating theatres, avoiding the cancellation of operations.
3. To know how emergencies affect to the administration of the hospital departments or services (cancellation of operations, etc).
4. To optimize the allocation of human and material resources towards and shifts.
5. To detect the influence of certain diseases in the hospital's services.
6. To find clusters of patients.

1.3 SCOPE

1.3.1 Existing System Features

- Integration of Corporate Medicare centers is very difficult while it is having different branches.
- In most of the cases the database is similar from one hospital to another hospital. In those cases also we can't easily adapt a new technology in the new hospital.
- It is very difficult to analyze the usage percentage of hospital resources, Bed occupation Ratio, Administration, Laboratory information even in a single center. Then we can expect the complexity while integrating multi multi-specialty Medicare Centers.

- Room Reservations, Doctor Appointment Schedules, Operation Schedules, and Medicine indentation information is very difficult to maintain and share among the different Medicare Centers.
- Lack of generic and unique model we have to implement the same set of data model for every newly established Medicare Center.

1.3.2 Proposed System Features

In this project we are trying to implement which parts of a data-mining project for hospital management are equal or highly similar across different hospitals (at least in the same national healthcare system). This allows us to design several data mining modules, which can be portable across several hospitals, thus dramatically reducing the time to implement a data-mining program in a new hospital.

1.4 MODULES:

The entire project mainly consists of 7 modules, which are

- Admin module
- User module (patient)
- Doctor module
- Nurse module
- Pharmacist module
- Laboratories module
- Accountant module

1.5 Problem Introduction:

- Lack of immediate retrievals
- Lack of immediate information storage
- Lack of prompt updating

- Error prone manual calculation
- Preparation of accurate and prompt reports

2. LITERATURE SURVEY

Data mining research currently faces two great challenges: how to embrace data mining services with just-in-time and autonomous properties and how to mine distributed and privacy-protected data. To address these problems, the authors adopt the Business Process Execution Language for Web Services in a **service oriented distributed data mining (DDM)** platform to choreograph DDM component services and fulfill global data mining requirements. They also use the learning-from- illustrate how localized autonomy on privacy-policy enforcement plush bidding process can help the service-oriented system self-organize.

Most data mining algorithms assume that data analysts will aggregate data extracted from production systems at a server for subsequent computationally intensive data-crunching processes. However, issues such as data privacy concerns (with respect to customer information stored in bank servers, for example) and limits on data transmission bandwidth (affecting terabytes of scientific data generated from remote lab instruments or supercomputers) demonstrate that aggregating data for centralized mining simply isn't possible in a growing number of cases.

Instead, it's become necessary to develop methodologies for mining distributed data that must remain private.

This real-time objective imposes additional requirements on distributed data mining (DDM), including providing on-demand and self-adaptive services so that companies can cope with heterogeneities in data

sources, with respect to data privacy requirements, which aren't always known in advance. We can address these challenges in two ways: a distributed computing architecture can support seamless provision, integration, and coordination of just-in-time and autonomous data mining services and a privacy-conscious DDM methodology can work on top of this architecture.

The purpose of this project is to solve the problems of data mining research which is currently facing two great challenges i.e. how to embrace data mining services with just-in-time and autonomous properties and how to mine distributed and privacy-protected data.

3. PROBLEM STATEMENT

Need for a National Health Information Portal

Health literacy is generally agreed upon as a means to find, understand, analyze and use information to make better decisions about health and to ultimately reduce inequities in health. Health literacy is about communicating health information in ways patients and families can understand. The diffusion and use of knowledge in society is arguably one of the most important factors in improving health outcomes.

Access to health information is one of the foremost rights of humankind. Inadequate or poor health information can increase the risk of hospitalization or even disease burden. Medical information that is not tailored for consumers can be confusing and deciphering this can be difficult. Therefore, availability of reliable, high quality health information is important for the promotion of health among the population.

4. PROPOSED MODEL

4.1 ER Diagram

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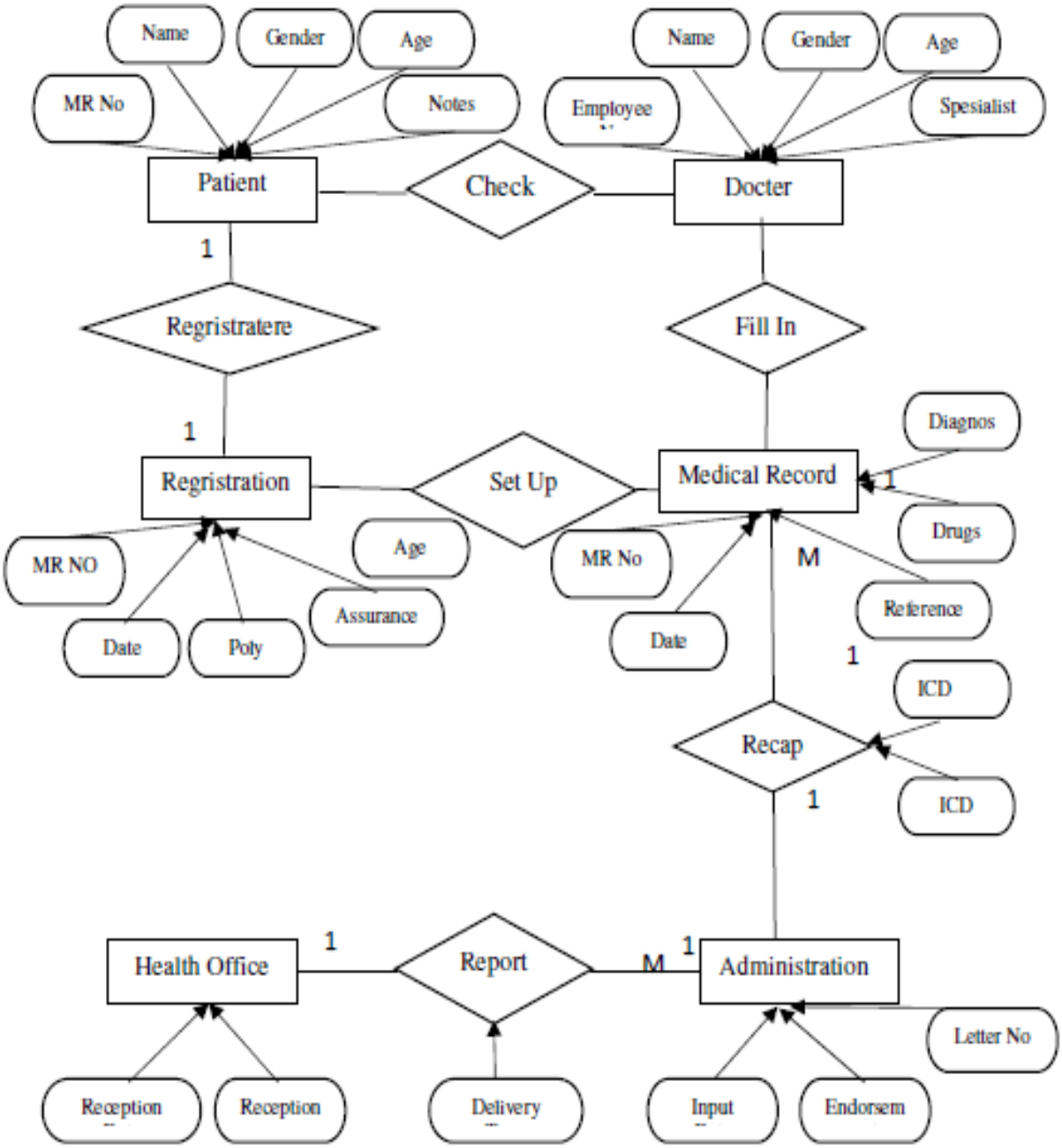
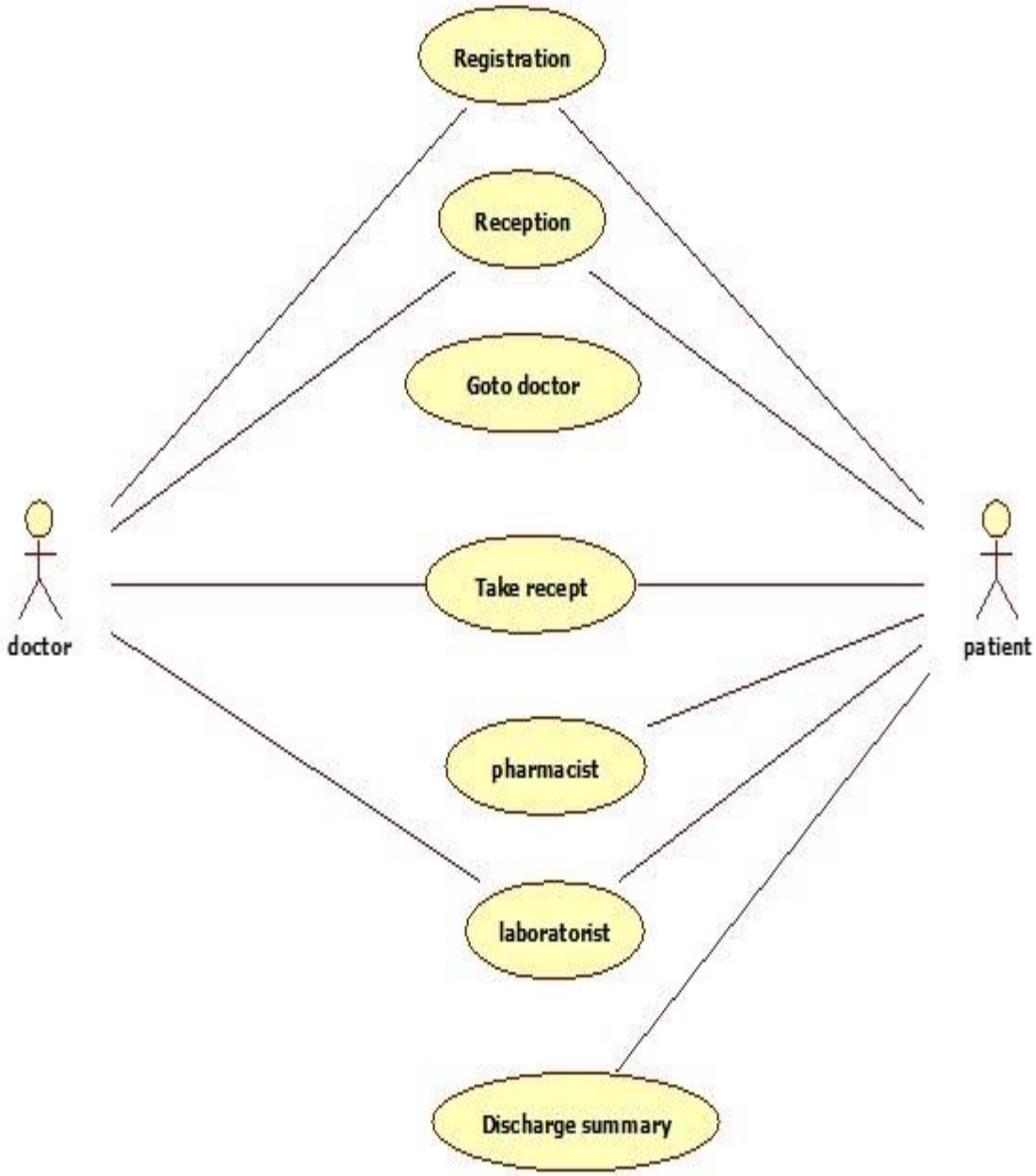


4.2 Use Case Diagram



5. IMPLEMENTATION

Software Requirements:-

- To build such an application, Swift for IOS and Java for Android gives native experience.

- **Web Development**: Notepad++

- **Languages**: PHP, CSS3, HTML5, JavaScript.

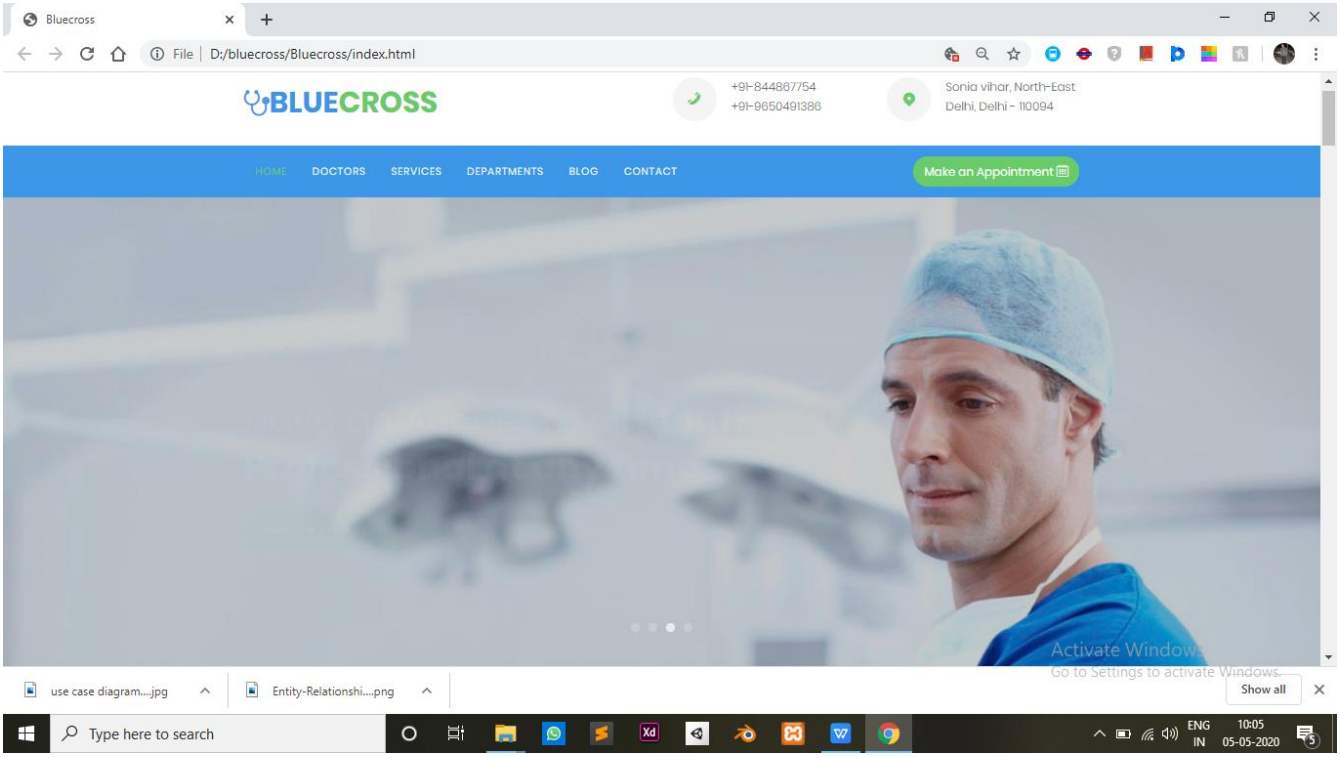
- **Database**: MySQL

- **Hosting**: Amazon Cloud

Hardware Requirements:-

- Browser for surfing
- Online Server
- Domain name

6. Output / Result / Screenshot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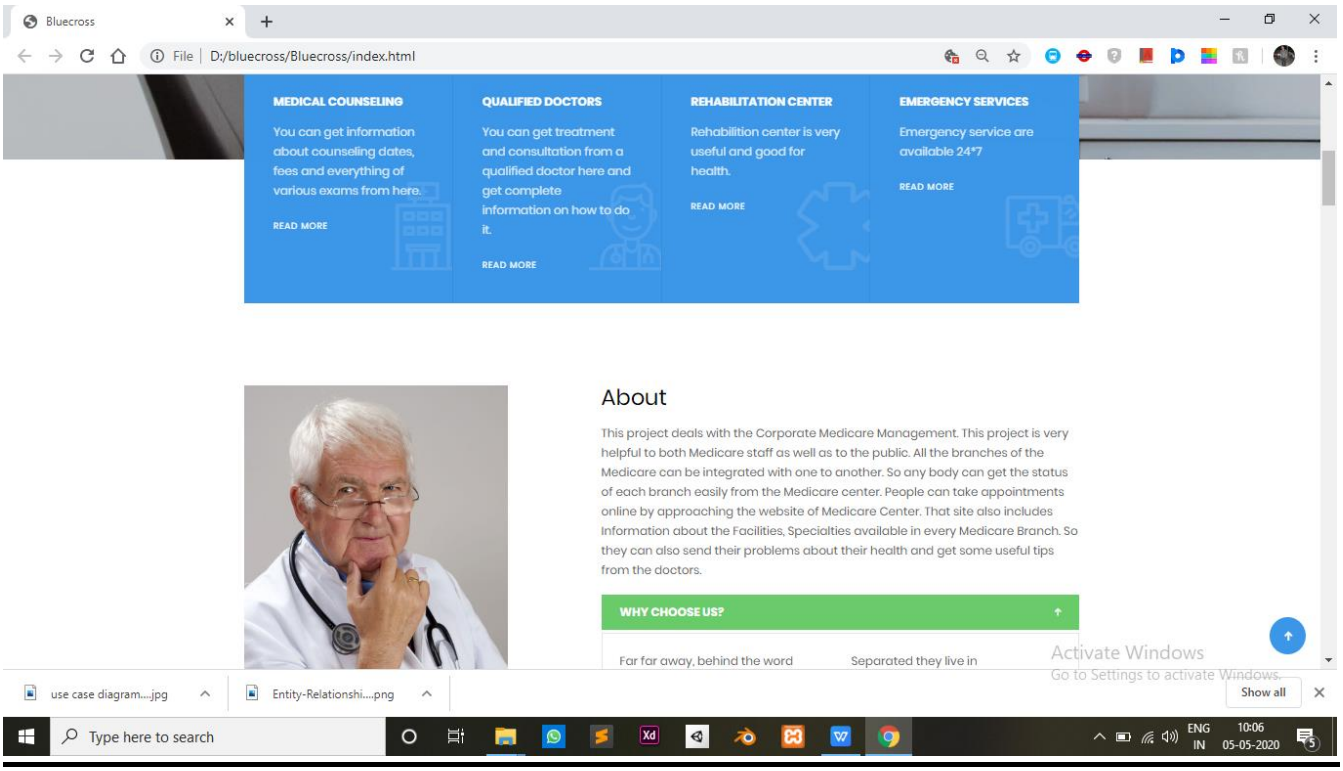
Bluecross
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MEDICAL COUNSELING
You can get information about counseling dates, fees and everything of various exams from here.
READ MORE
QUALIFIED DOCTORS
You can get treatment and consultation from a qualified doctor here and get complete information on how to do it.
READ MORE
REHABILITATION CENTER
Rehabilition center is very useful and good for health.
READ MORE
EMERGENCY SERVICES
Emergency service are available 24*7
READ MORE
About
This project deals with the Corporate Medicare Management. This project is very helpful to both Medicare staff as well as to the public. All the branches of the Medicare can be integrated with one to another. So any body can get the status of each branch easily from the Medicare center. People can take appointments online by approaching the website of Medicare Center. That site also includes Information about the Facilities, Specialties available in every Medicare Branch. So they can also send their problems about their health and get some useful tips from the doctors.
WHY CHOOSE US?
Far far away, behind the word
Separated they live in
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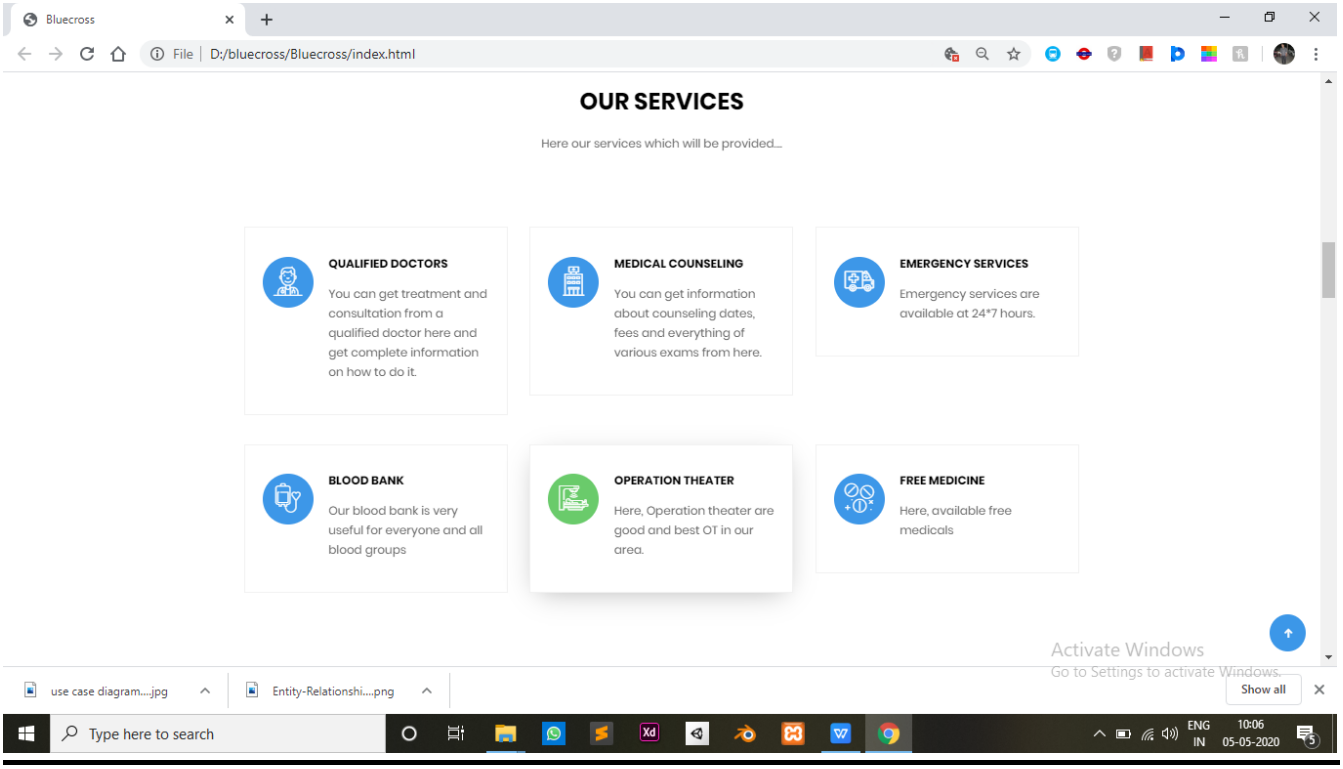
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OUR SERVICES
Here our services which will be provided...
QUALIFIED DOCTORS
You can get treatment and consultation from a qualified doctor here and get complete information on how to do it.
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You can get information about counseling dates, fees and everything of various exams from here.
EMERGENCY SERVICES
Emergency services are available at 24*7 hours.
BLOOD BANK
Our blood bank is very useful for everyone and all blood groups
OPERATION THEATER
Here, Operation theater are good and best OT in our area.
FREE MEDICINE
Here, available free medicals
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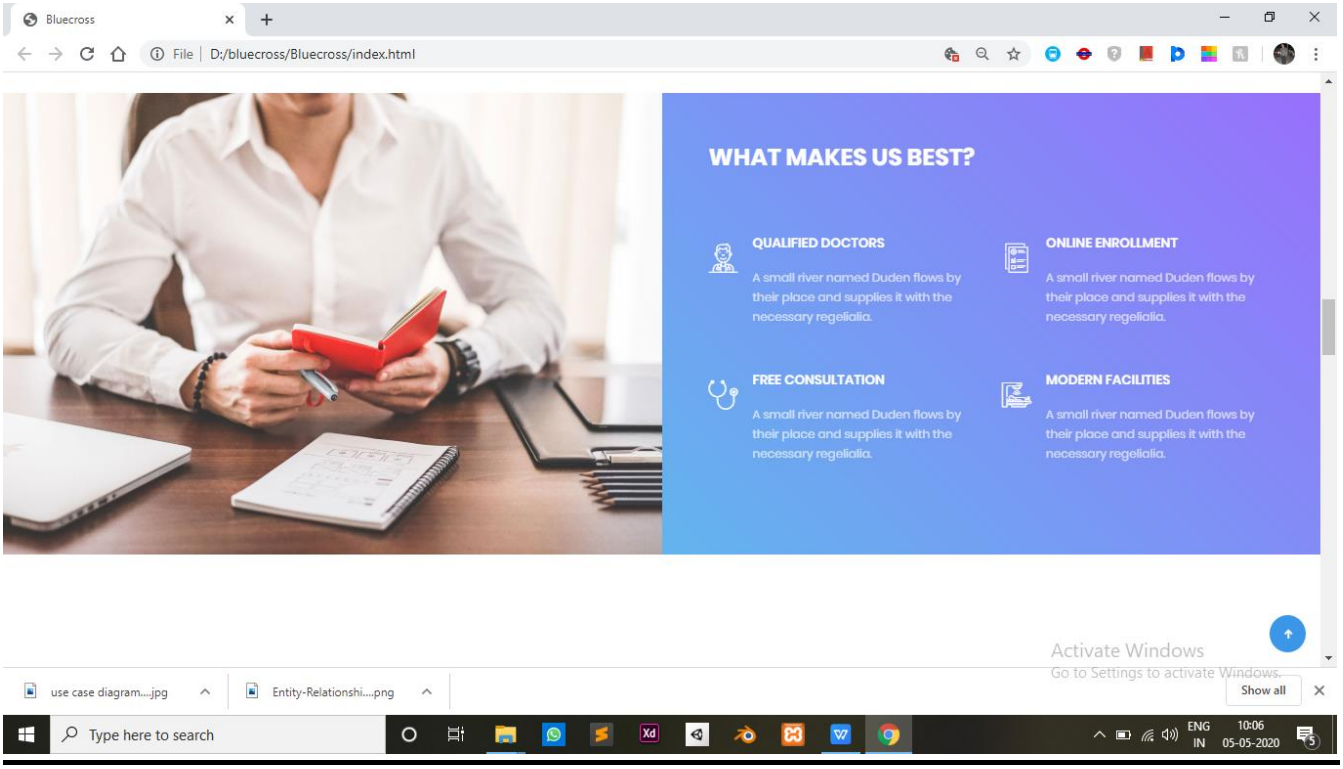
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WHAT MAKES US BEST?
QUALIFIED DOCTORS
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ONLINE ENROLLMENT
A small river named Duden flows by their place and supplies it with the necessary regelialia.
FREE CONSULTATION
A small river named Duden flows by their place and supplies it with the necessary regelialia.
MODERN FACILITIES
A small river named Duden flows by their place and supplies it with the necessary regelialia.
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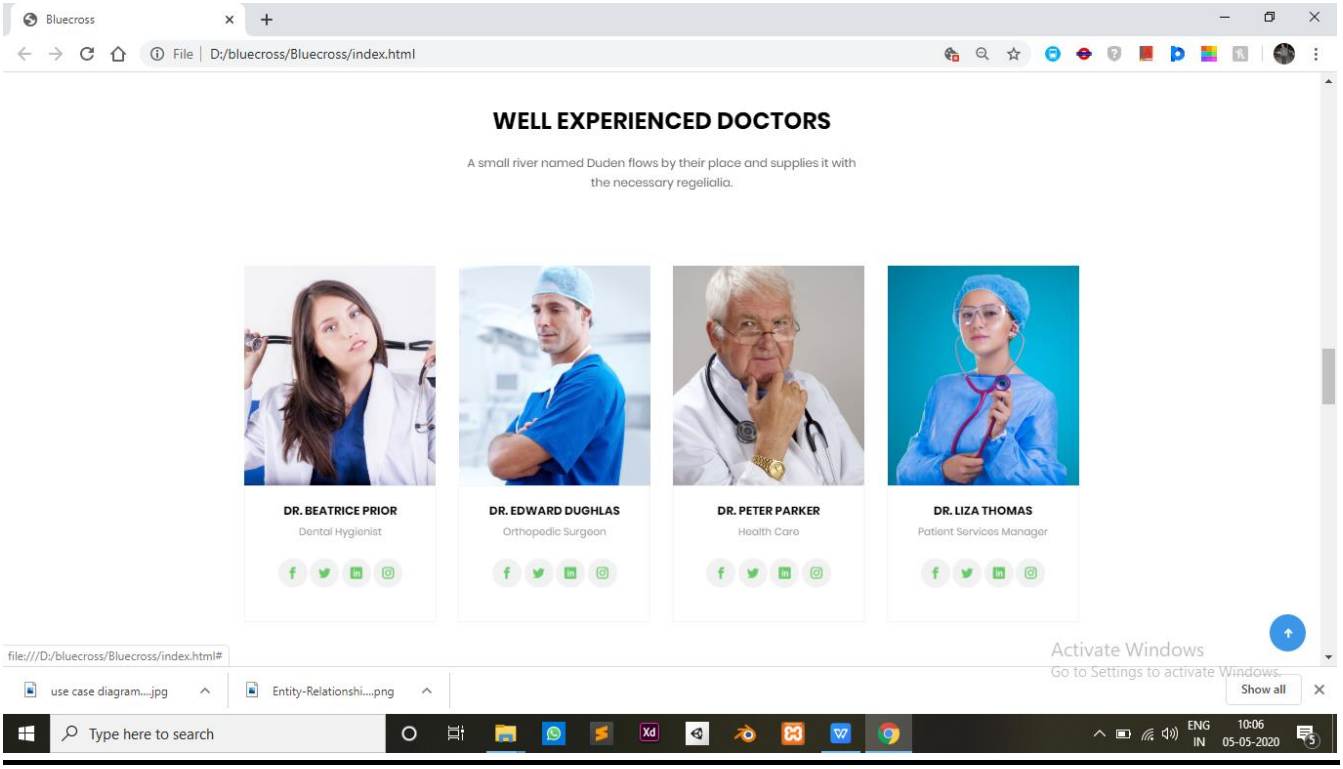
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WELL EXPERIENCED DOCTORS
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Dental Hygienist
DR. EDWARD DUGHLAS
Orthopedic Surgeon
DR. PETER PARKER
Health Care
DR. LIZA THOMAS
Patient Services Manager
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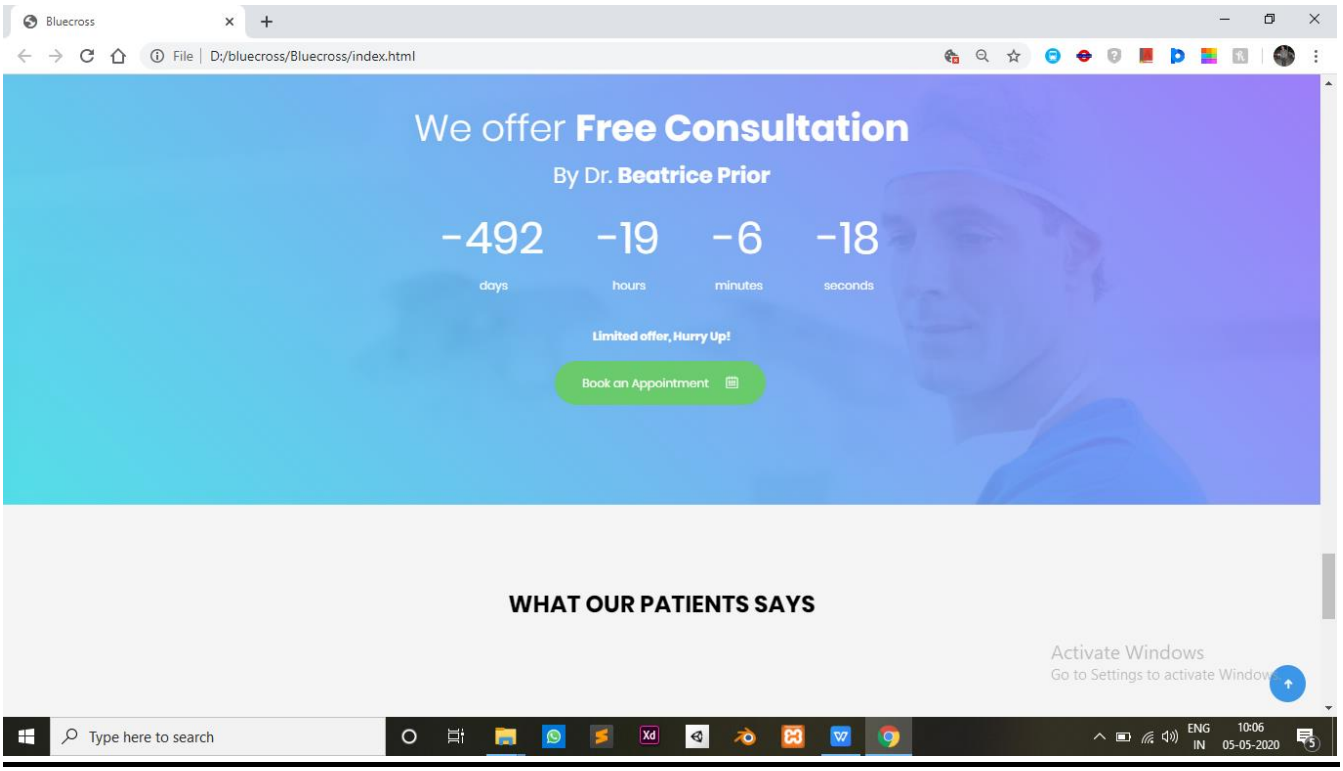
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We offer Free Consultation
By Dr. Beatrice Prior
-492
days
-19
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seconds
Limited offer, Hurry Up!
Book an Appointment
WHAT OUR PATIENTS SAYS
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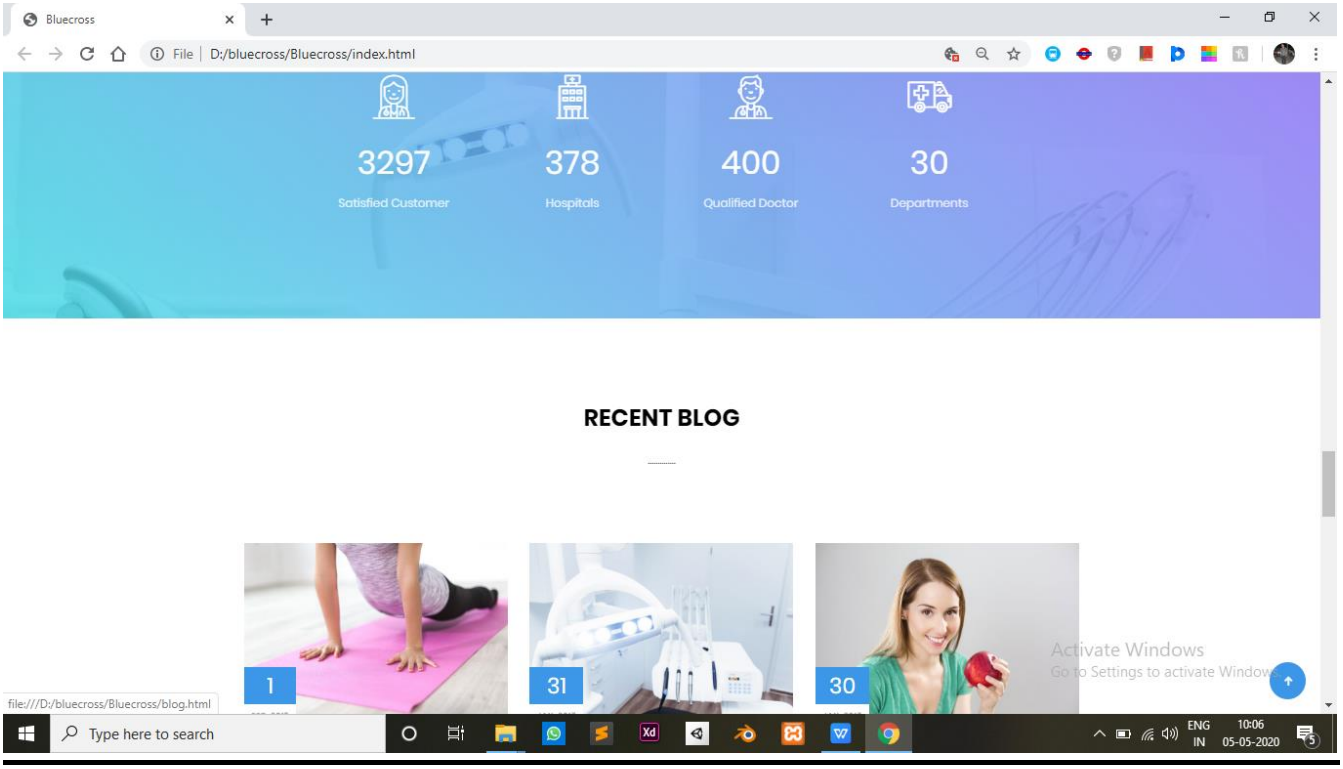
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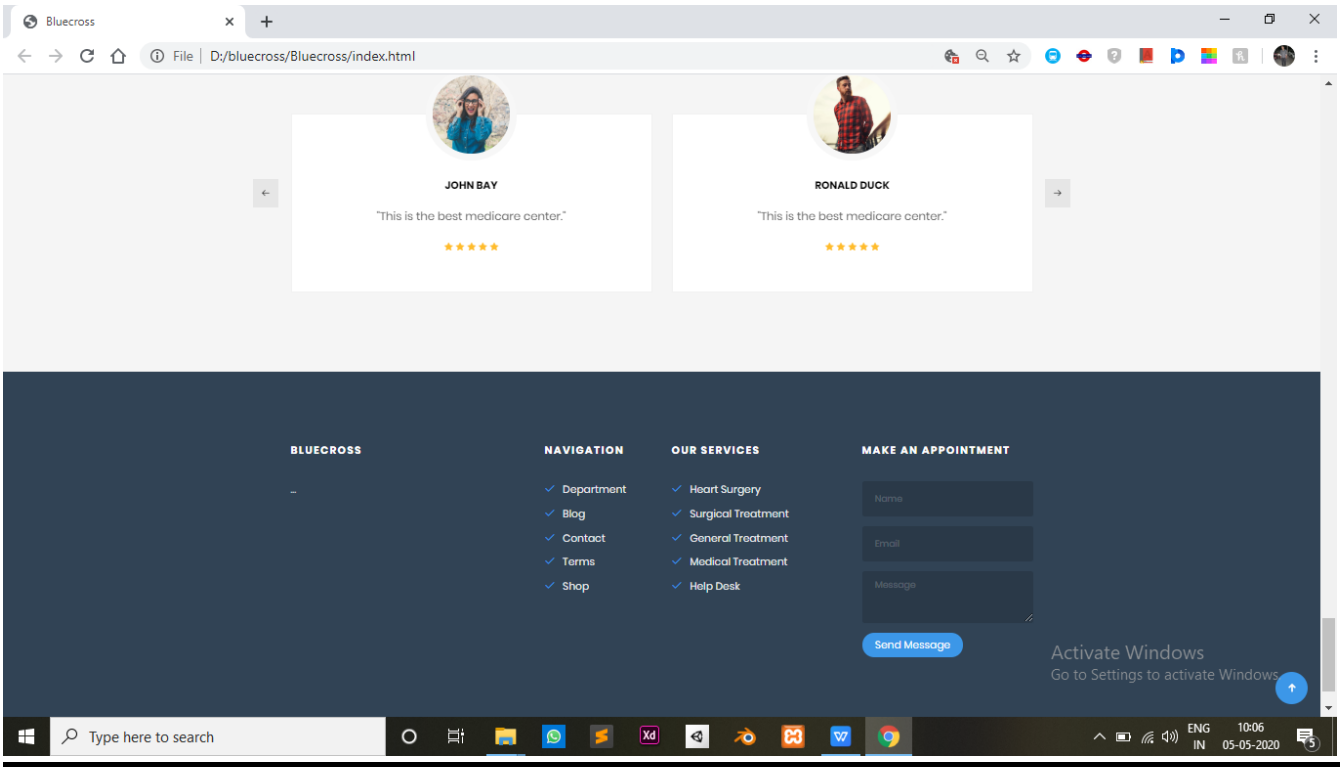
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JOHN BAY
"This is the best medicare center."
RONALD DUCK
"This is the best medicare center."
BLUECROSS
NAVIGATION
Department
Blog
Contact
Terms
Shop
OUR SERVICES
Heart Surgery
Surgical Treatment
General Treatment
Medical Treatment
Help Desk
MAKE AN APPOINTMENT
Name
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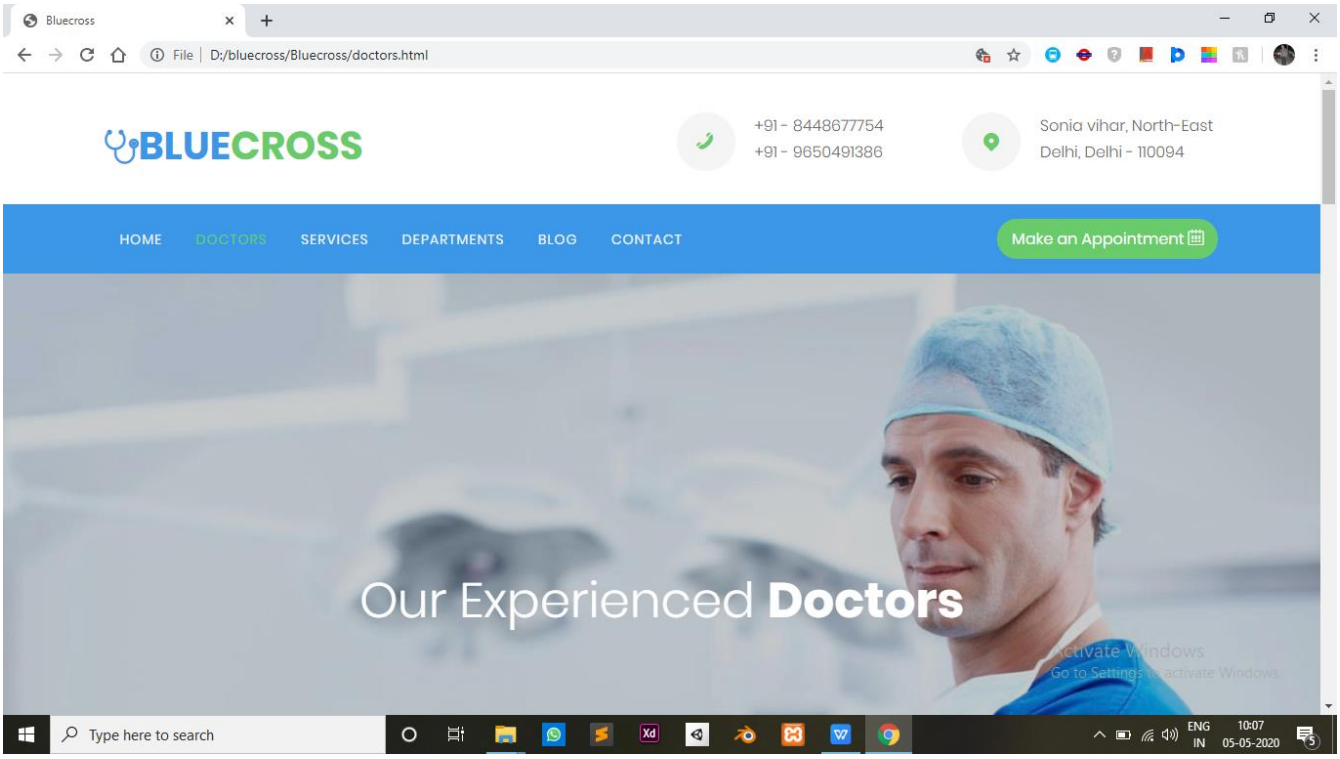
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Delhi, Delhi - 110094
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Make an Appointment
Our Experienced Doctors
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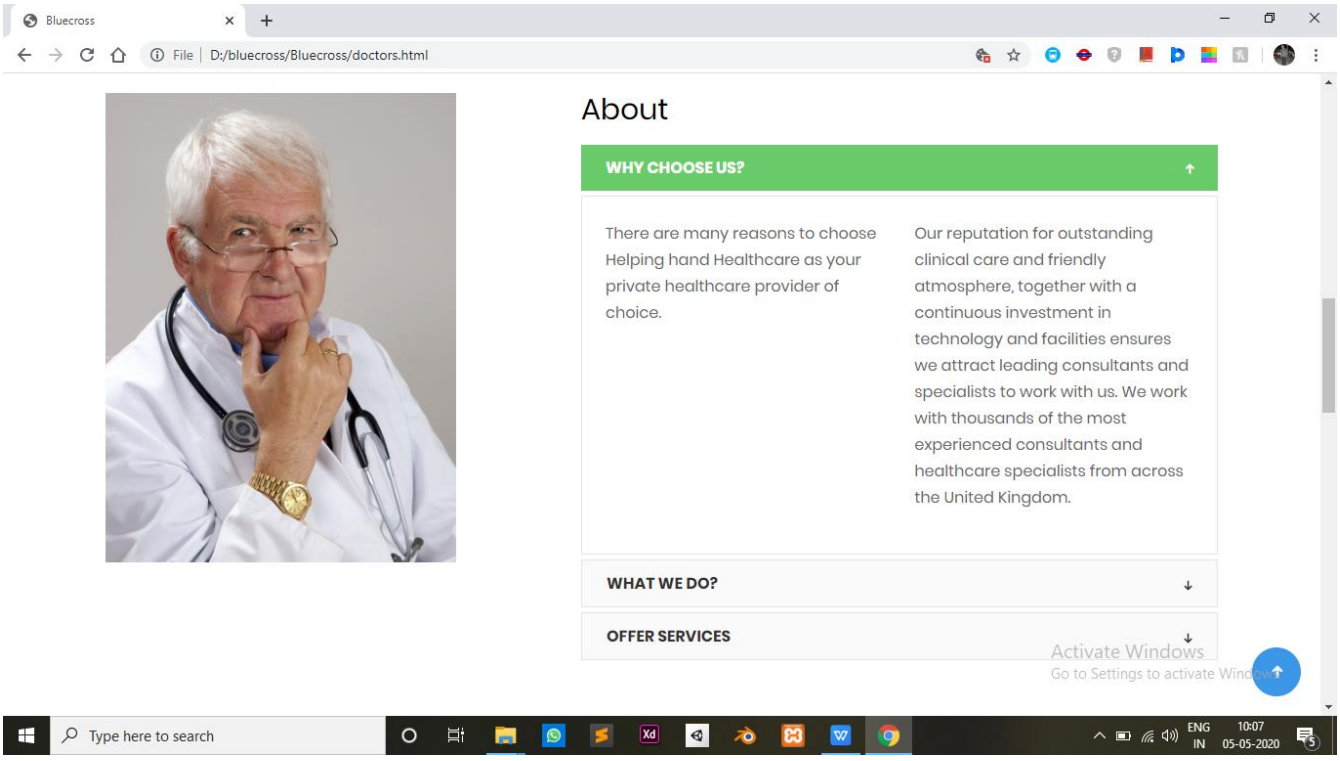
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About
WHY CHOOSE US?
There are many reasons to choose Helping hand Healthcare as your private healthcare provider of choice.
Our reputation for outstanding clinical care and friendly atmosphere, together with a continuous investment in technology and facilities ensures we attract leading consultants and specialists to work with us. We work with thousands of the most experienced consultants and healthcare specialists from across the United Kingdom.
WHAT WE DO?
OFFER SERVICES
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Bluecross

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WELL EXPERIENCED DOCTORS

DR. BEATRICE PRIOR

Dental Hygienist

DR. EDWARD DUGHLAS

Orthopedic Surgeon

DR. PETER PARKER

Health Care

DR. LIZA THOMAS

Patient Services Manager

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Dr. Beatrice Prior

Dental Hygienist

Doctors Schedule

MONDAY

8:00 AM - 12:00 PM

DENTAL CHECKUP

TUESDAY

8:00 AM - 12:00 PM

SURGERY

THURSDAY

8:00 AM - 12:00 PM

PSYCHOLOGICAL

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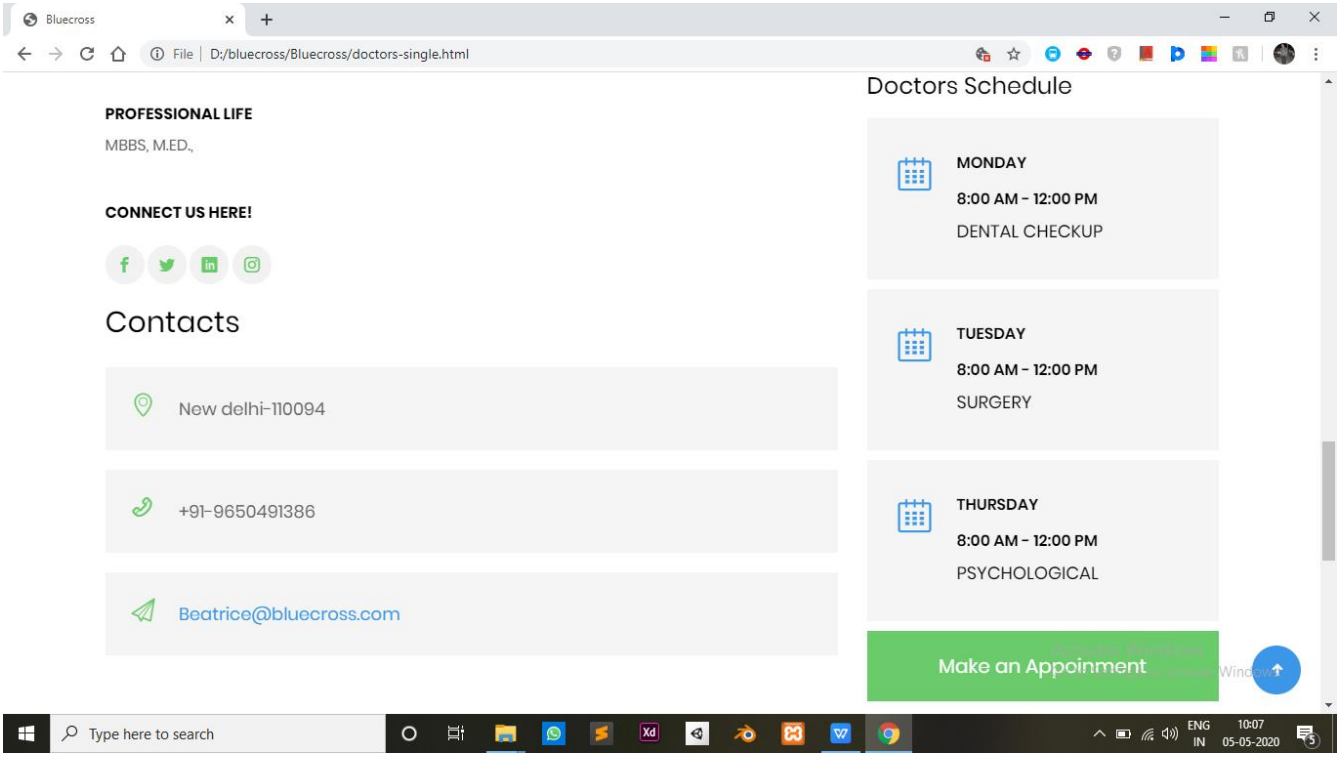
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PROFESSIONAL LIFE
MBBS, M.ED.,
CONNECT US HERE!
Contacts
New delhi-110094
+91-9650491386
Beatrice@bluecross.com
Doctors Schedule
MONDAY
8:00 AM - 12:00 PM
DENTAL CHECKUP
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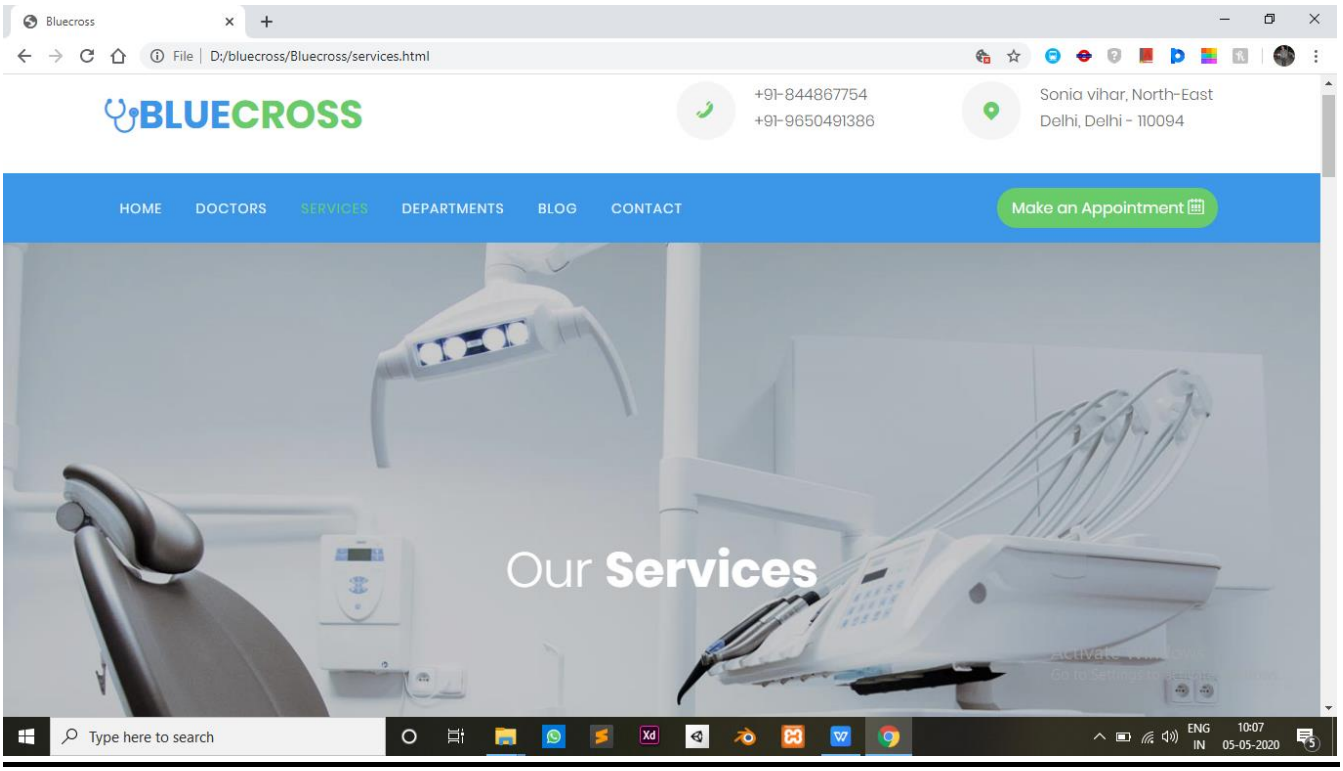
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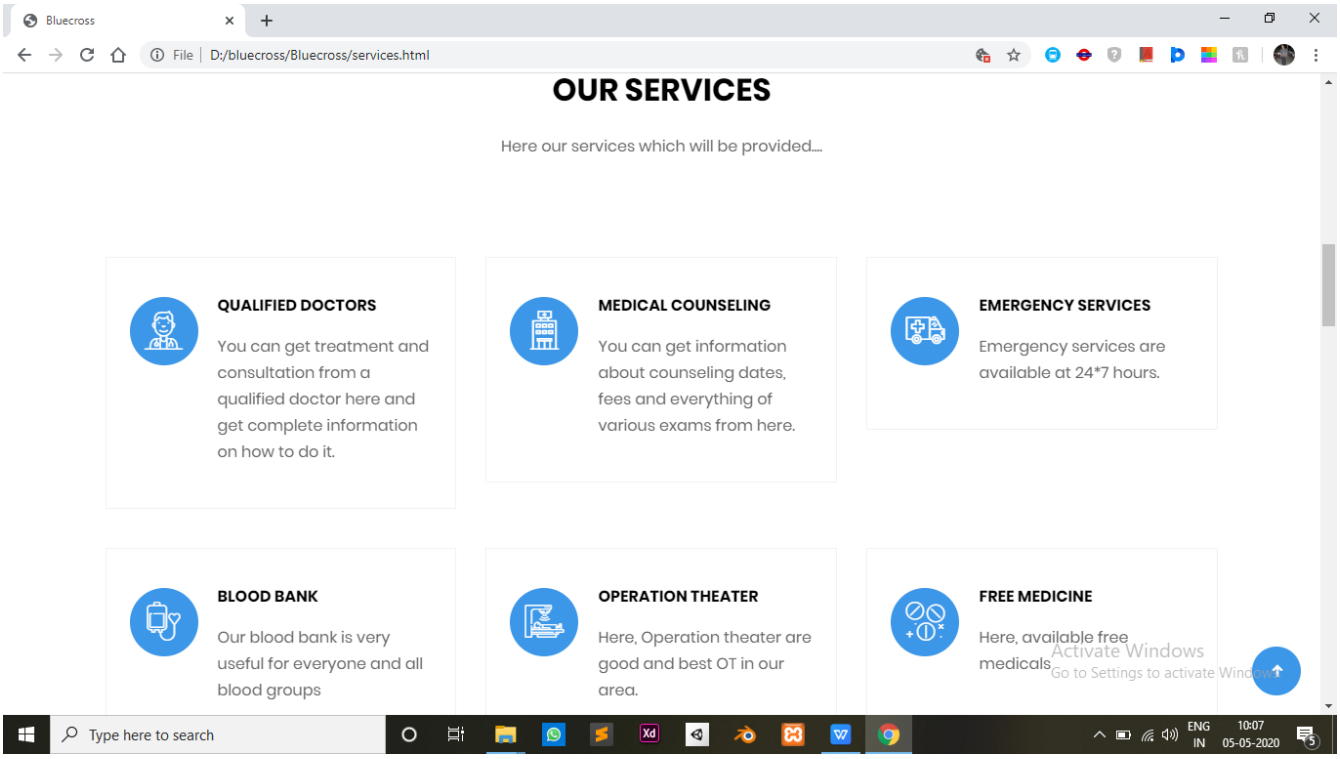
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OUR SERVICES
Here our services which will be provided....
QUALIFIED DOCTORS
You can get treatment and consultation from a qualified doctor here and get complete information on how to do it.
MEDICAL COUNSELING
You can get information about counseling dates, fees and everything of various exams from here.
EMERGENCY SERVICES
Emergency services are available at 24*7 hours.
BLOOD BANK
Our blood bank is very useful for everyone and all blood groups
OPERATION THEATER
Here, Operation theater are good and best OT in our area.
FREE MEDICINE
Here, available free medicals
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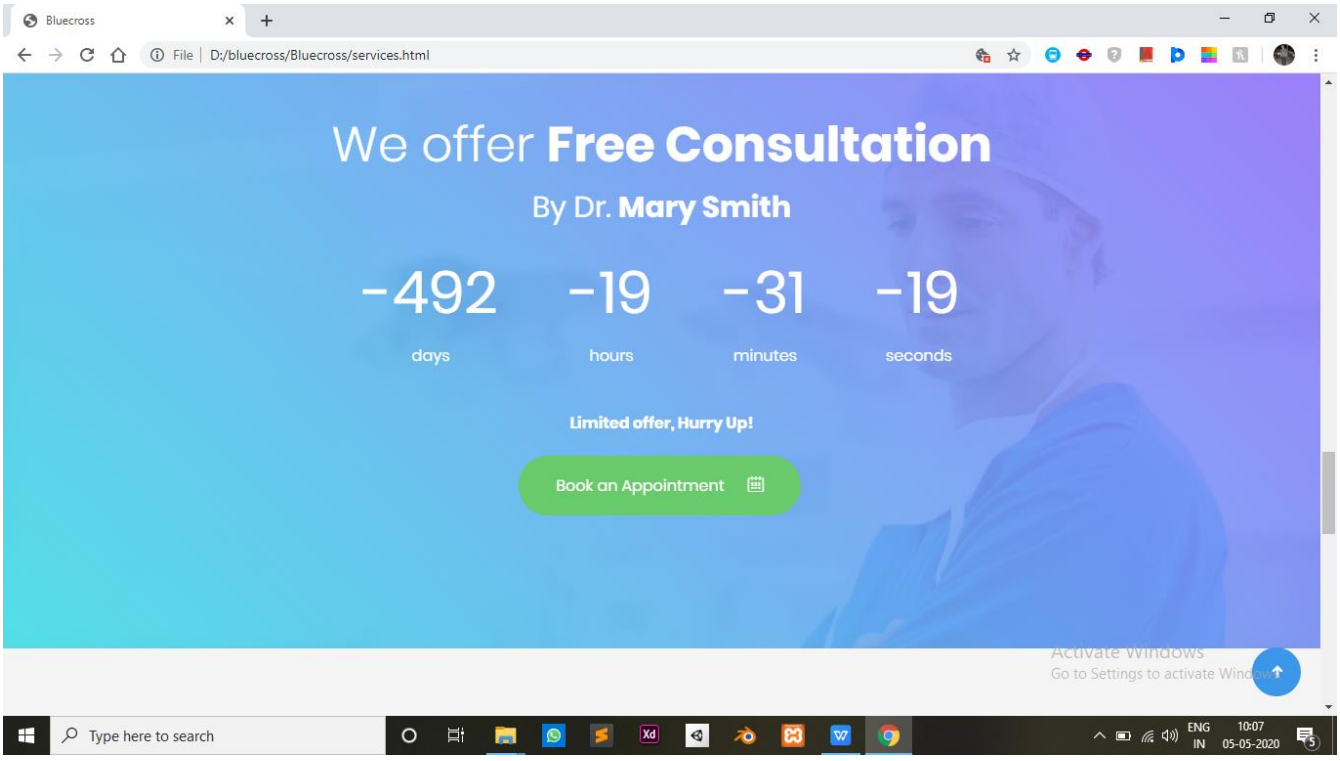
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We offer Free Consultation
By Dr. Mary Smith
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seconds
Limited offer, Hurry Up!
Book an Appointment
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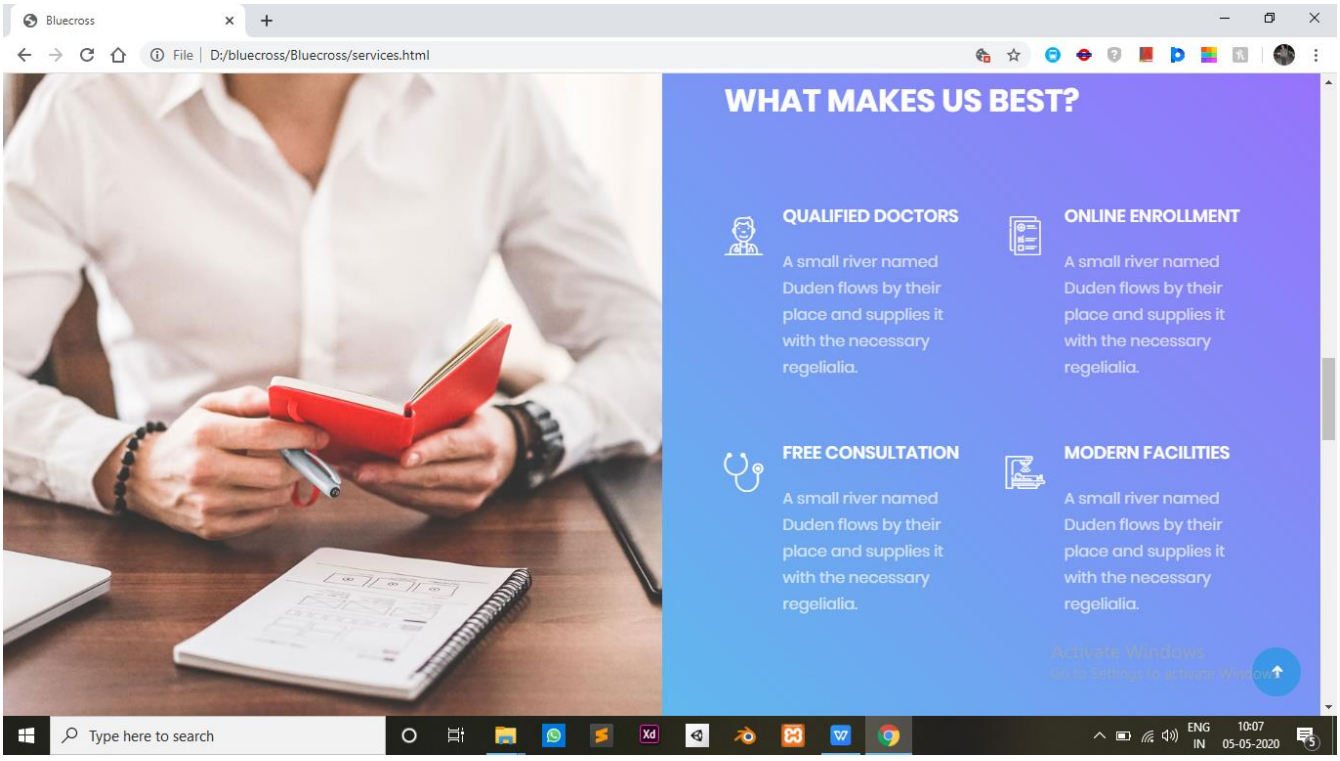
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WHAT MAKES US BEST?
QUALIFIED DOCTORS
A small river named Duden flows by their place and supplies it with the necessary regelialia.
ONLINE ENROLLMENT
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MODERN FACILITIES
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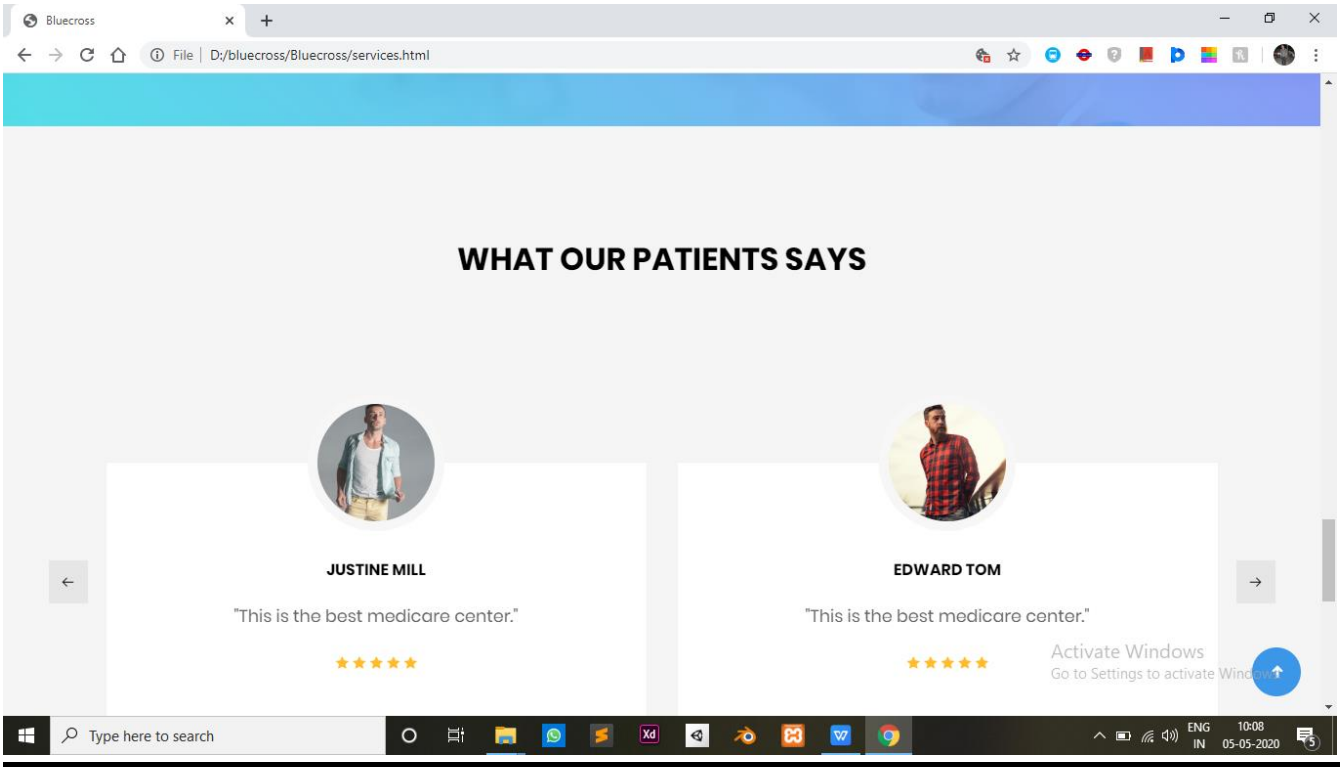
Bluecross
File | D:/bluecross/Bluecross/services.html
WHAT OUR PATIENTS SAYS
JUSTINE MILL
"This is the best medicare center."
EDWARD TOM
"This is the best medicare center."
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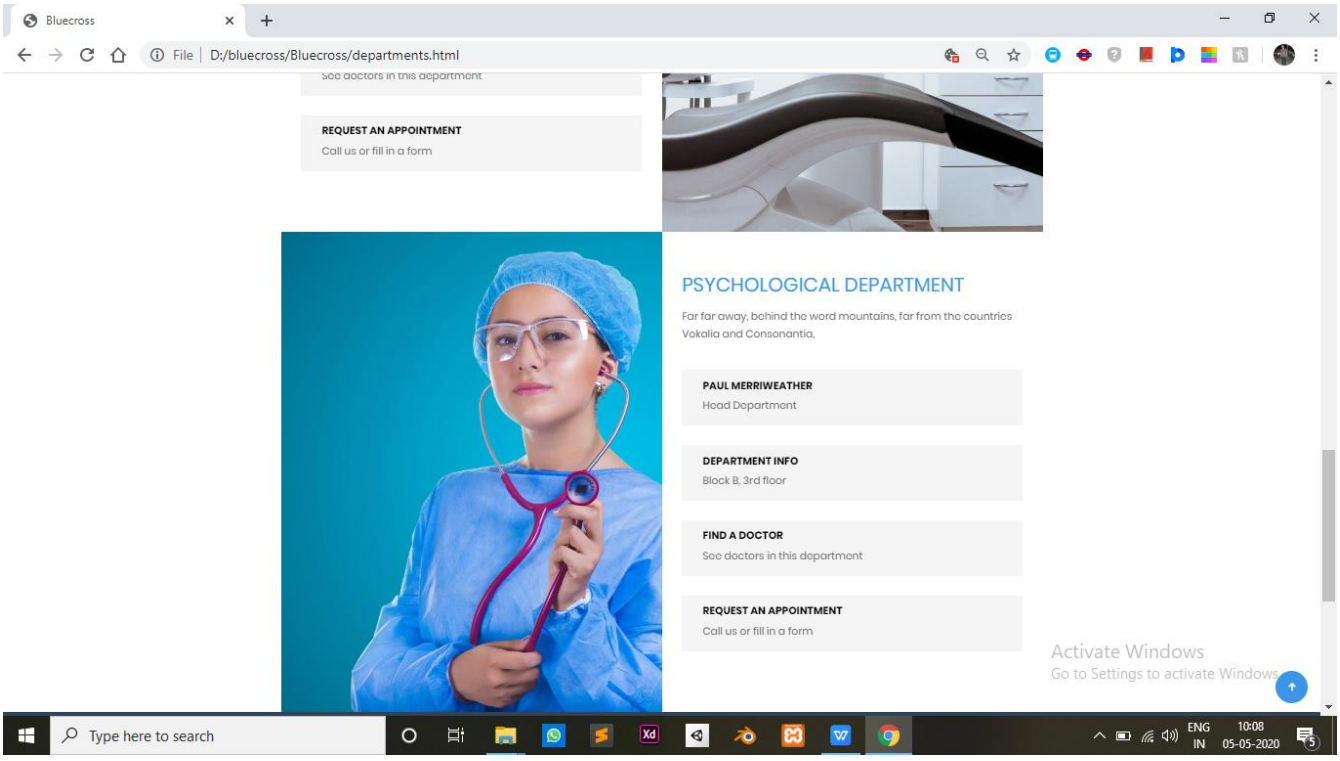
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See doctors in this department
REQUEST AN APPOINTMENT
Call us or fill in a form
PSYCHOLOGICAL DEPARTMENT
Far far away, behind the word mountains, far from the countries Vokalia and Consonantia,
PAUL MERRIWEATHER
Head Department
DEPARTMENT INFO
Block B, 3rd floor
FIND A DOCTOR
See doctors in this department
REQUEST AN APPOINTMENT
Call us or fill in a form
Activate Windows
Go to Settings to activate Windows.
Type here to search
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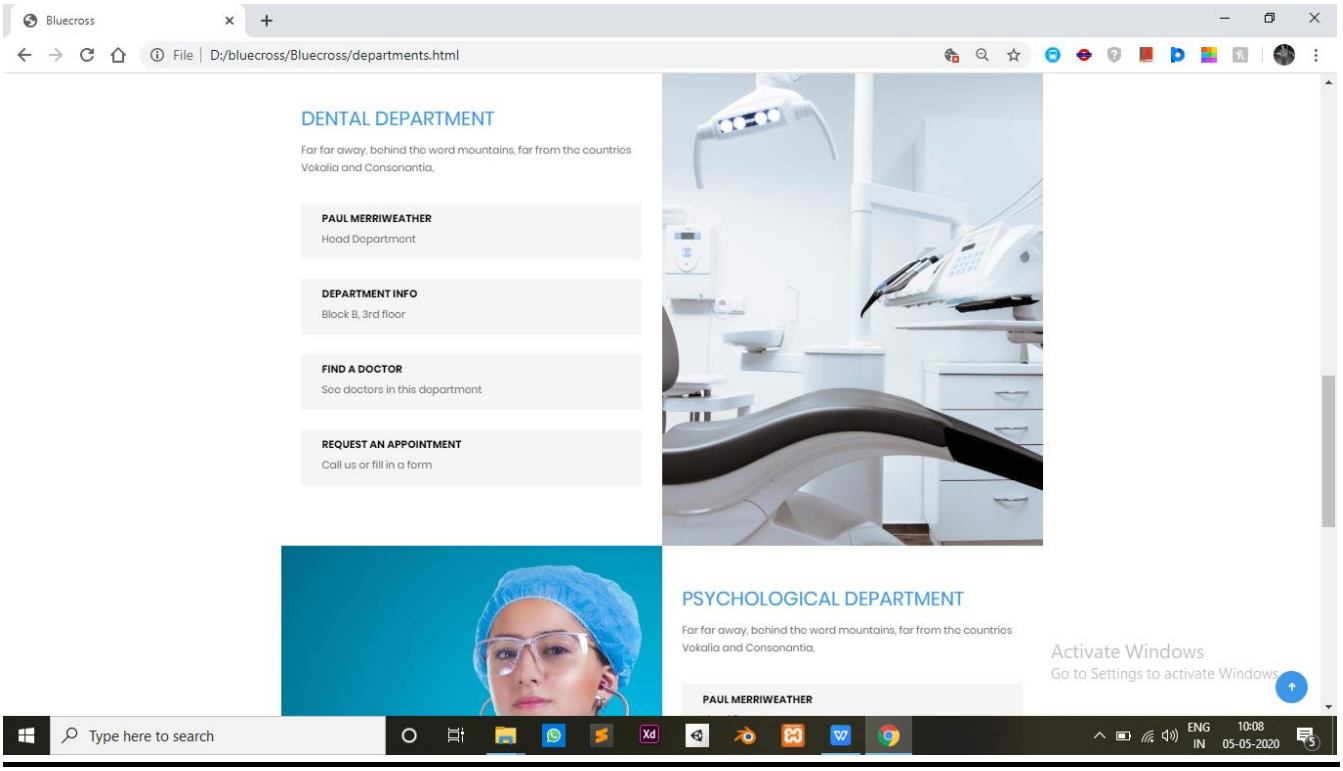
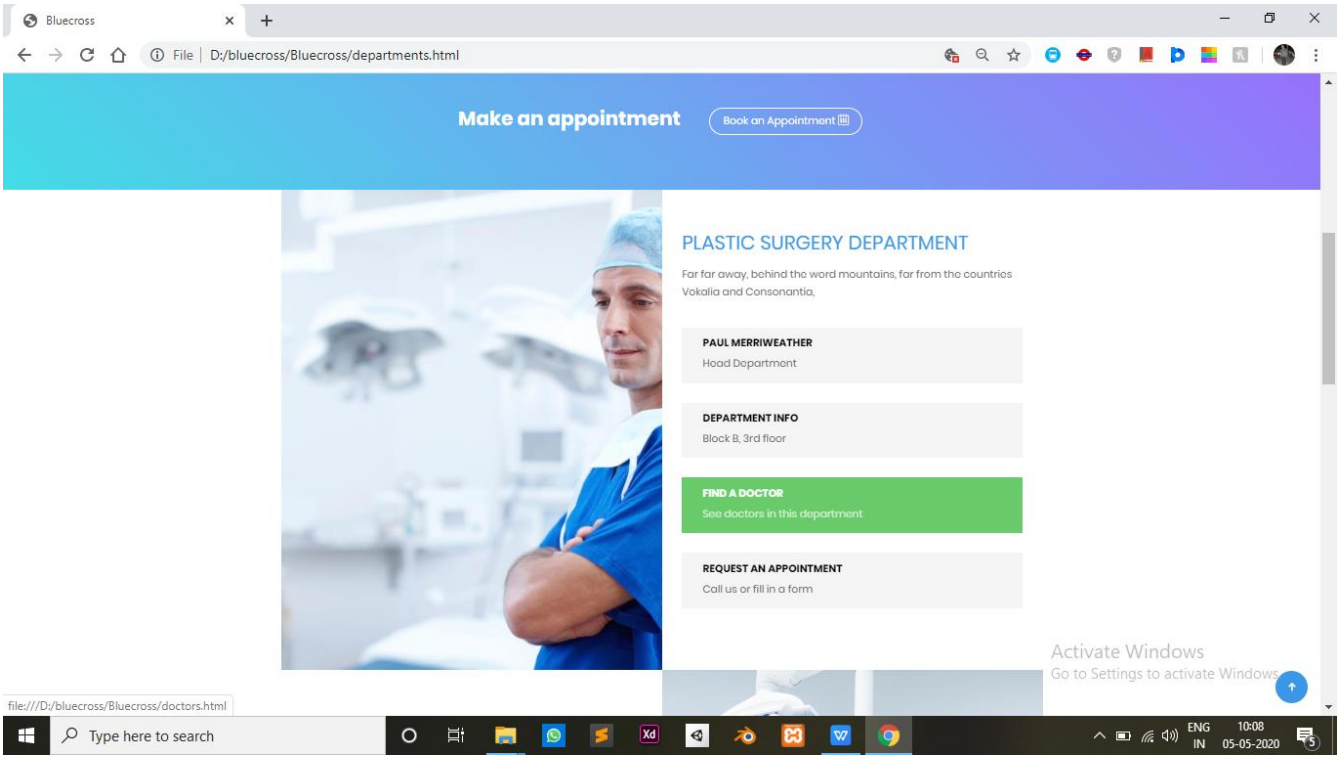
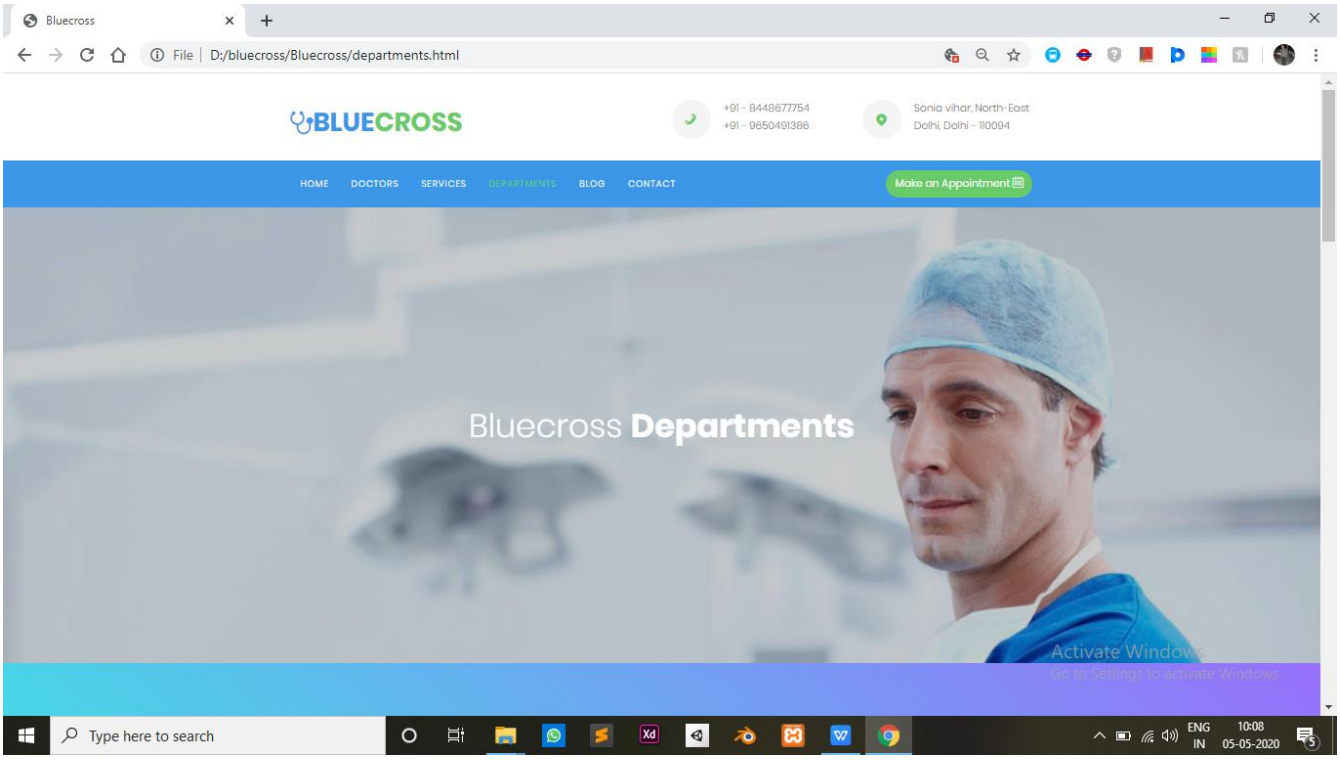
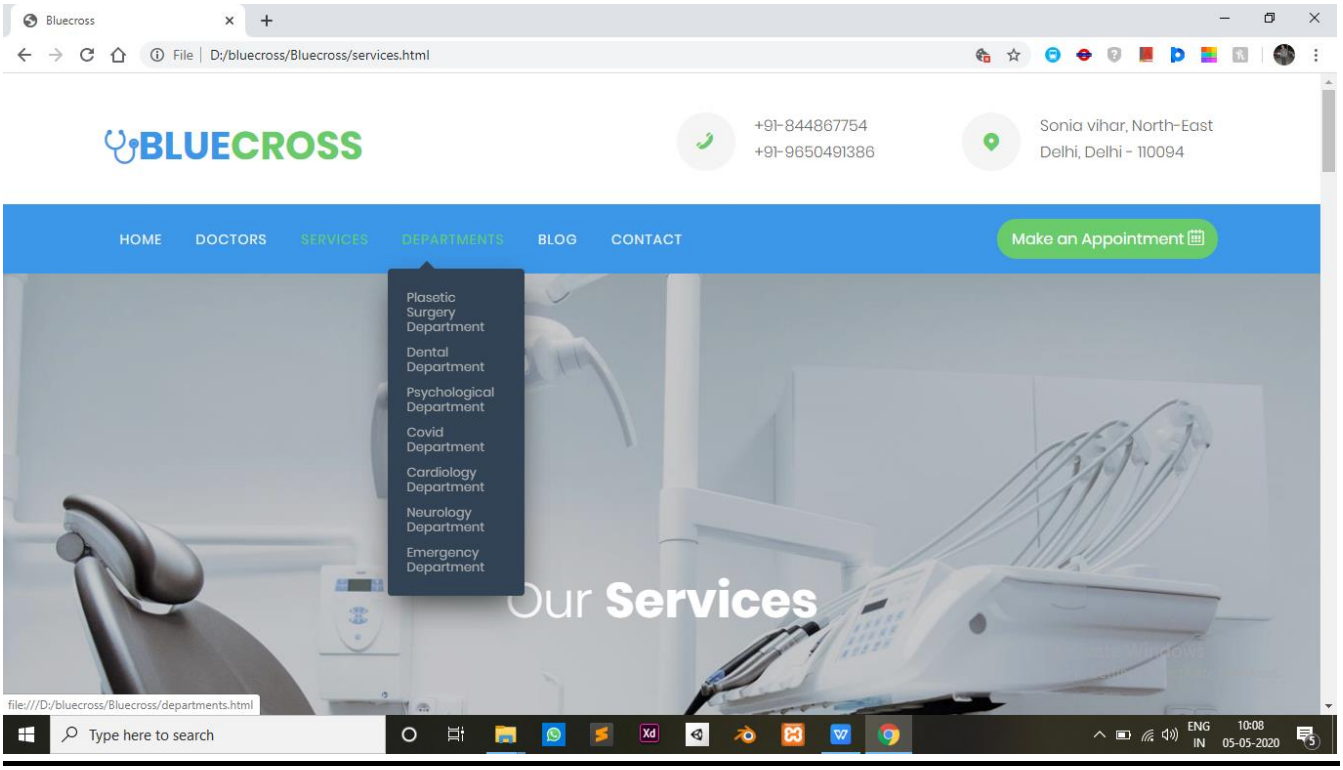
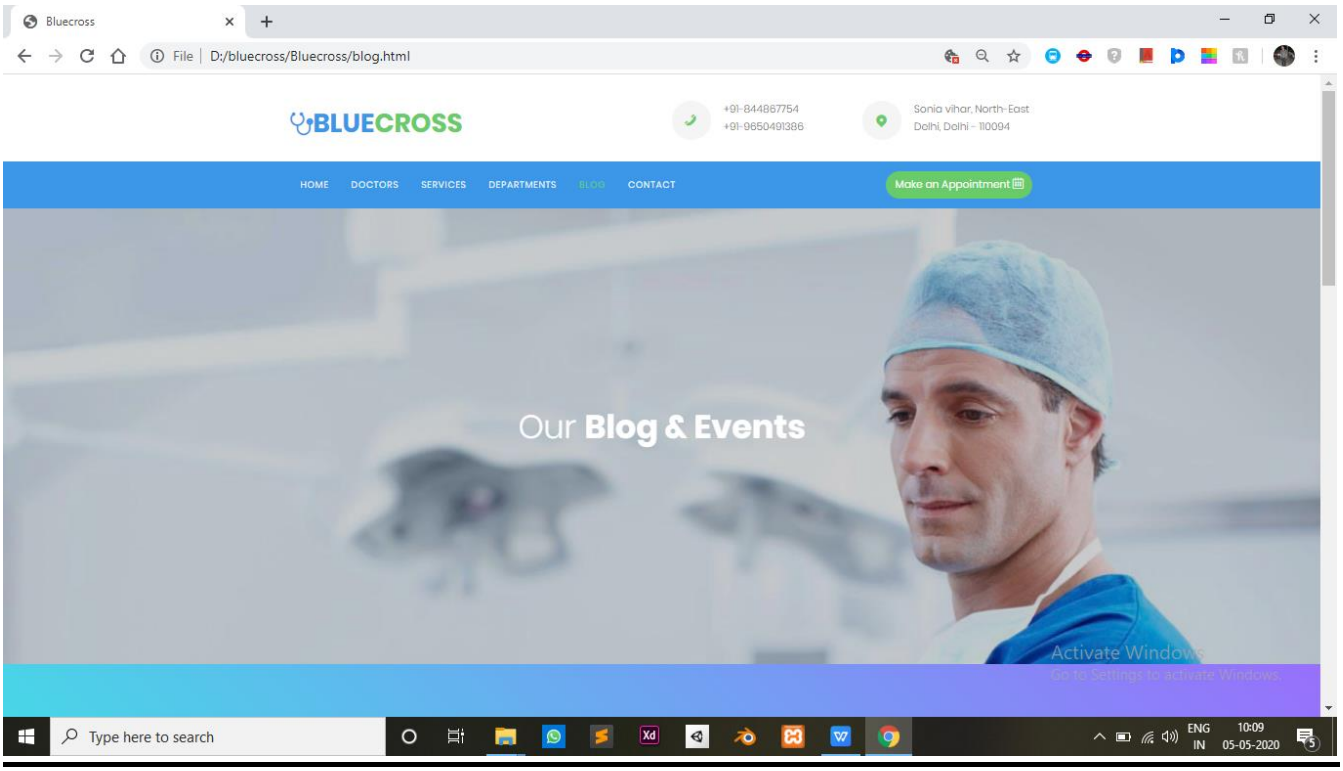
05-05-2020

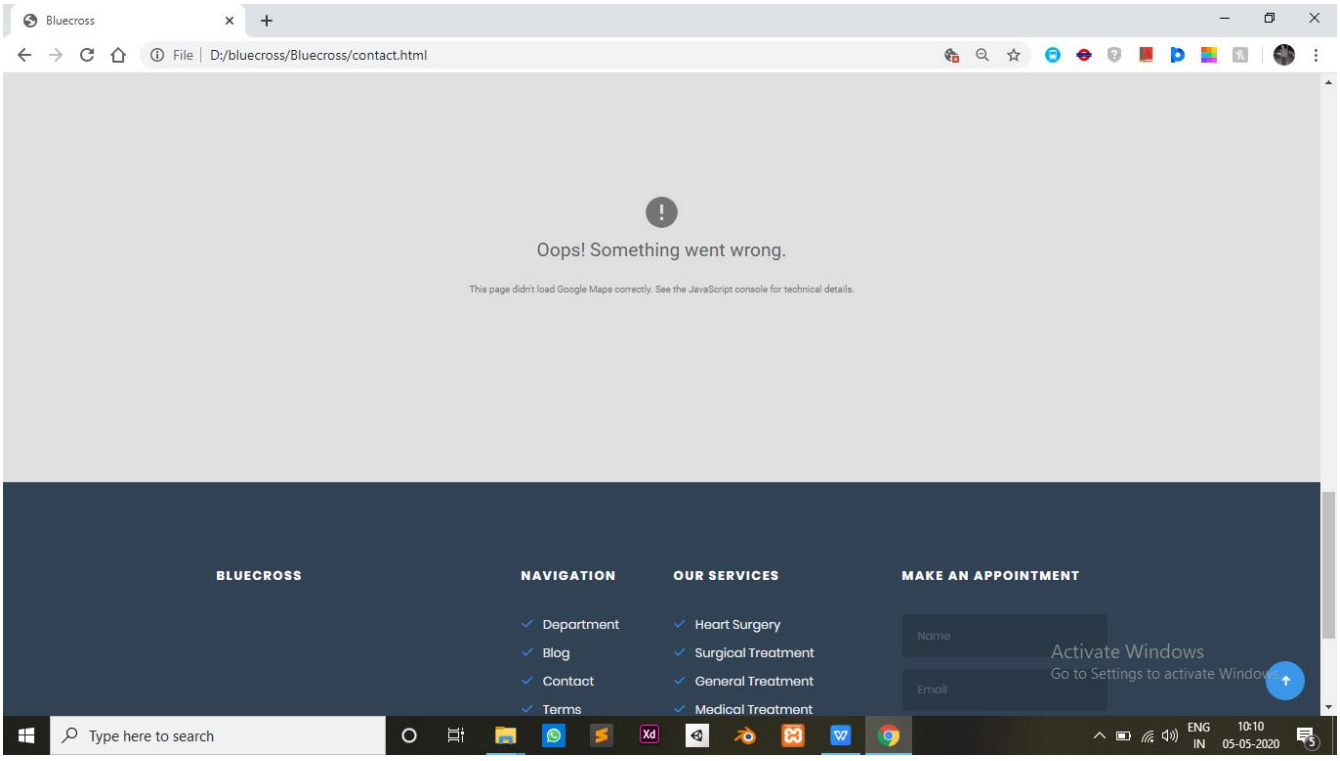

Bluecross
File | D:/bluecross/Bluecross/departments.html
DENTAL DEPARTMENT
Far far away, behind the word mountains, far from the countries Vokalia and Consonantia,
PAUL MERRIWEATHER
Head Department
DEPARTMENT INFO
Block B, 3rd floor
FIND A DOCTOR
See doctors in this department
REQUEST AN APPOINTMENT
Call us or fill in a form
PSYCHOLOGICAL DEPARTMENT
Far far away, behind the word mountains, far from the countries Vokalia and Consonantia,
PAUL MERRIWEATHER
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
IN
10:08
05-05-2020

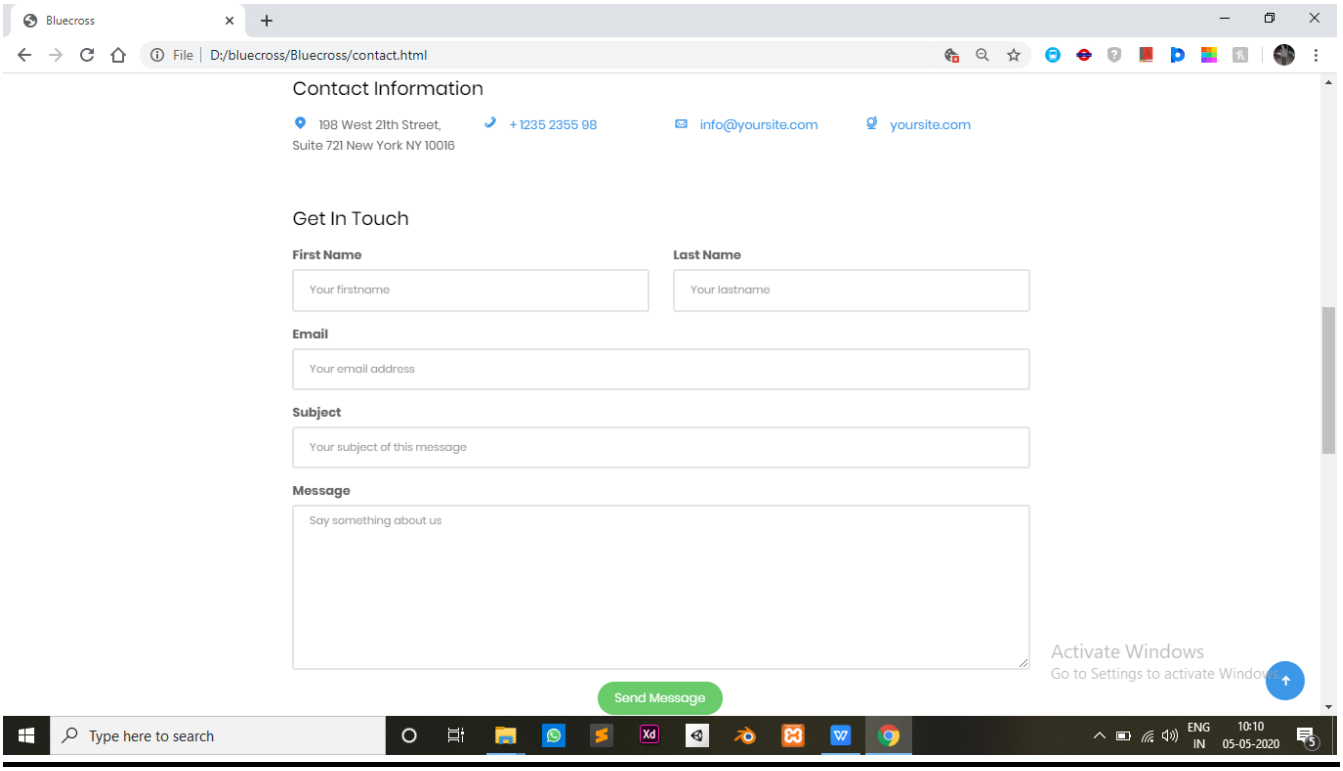

Bluecross
File | D:/bluecross/Bluecross/departments.html
Make an appointment
Book an Appointment
PLASTIC SURGERY DEPARTMENT
Far far away, behind the word mountains, far from the countries Vokalia and Consonantia,
PAUL MERRIWEATHER
Head Department
DEPARTMENT INFO
Block B, 3rd floor
FIND A DOCTOR
See doctors in this department
REQUEST AN APPOINTMENT
Call us or fill in a form
Activate Windows
Go to Settings to activate Windows.
file:///D:/bluecross/Bluecross/doctors.html
Type here to search
ENG
IN
10:08
05-05-2020

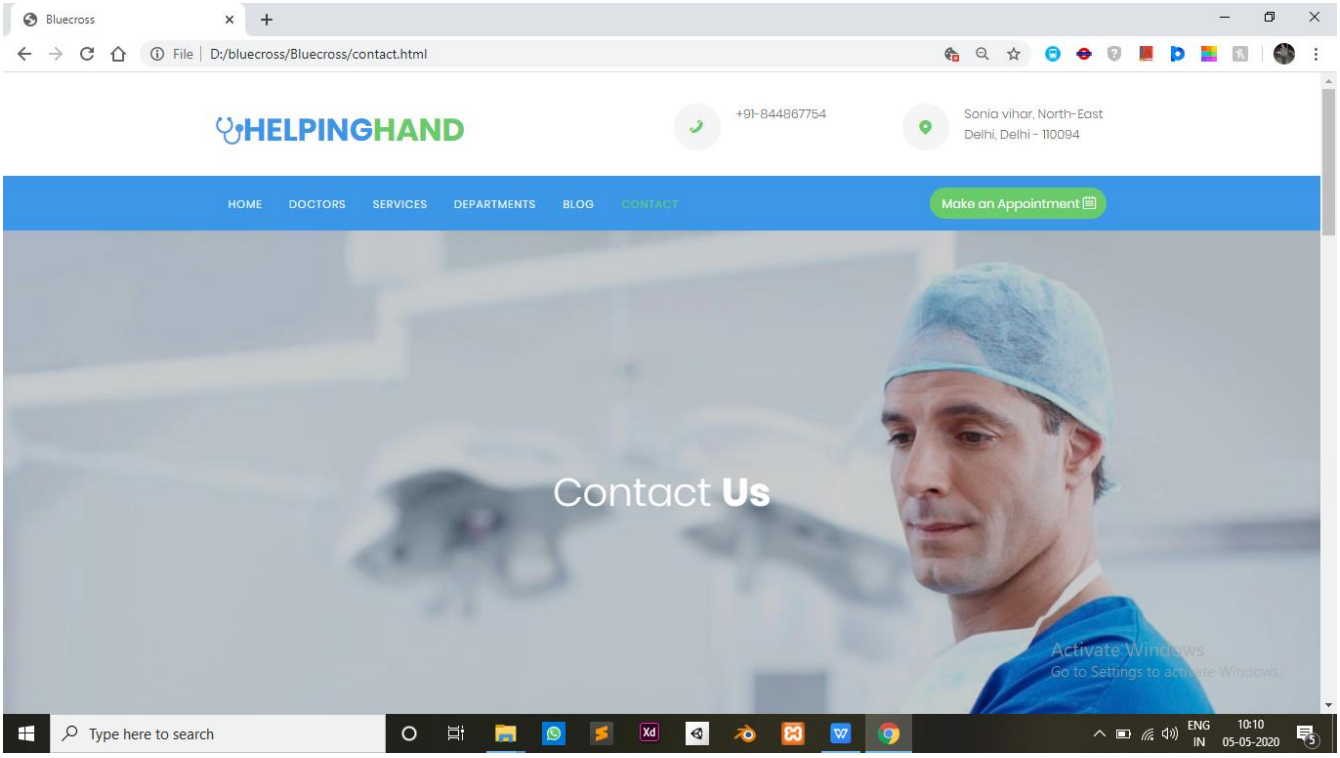

Bluecross
File | D:/bluecross/Bluecross/departments.html
BLUECROSS
+91 - 8448677754
+91 - 9650491386
Sonia vihar, North-East
Delhi, Delhi - 110094
HOME
DOCTORS
SERVICES
DEPARTMENTS
BLOG
CONTACT
Make an Appointment
Bluecross Departments
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
IN
10:08
05-05-2020

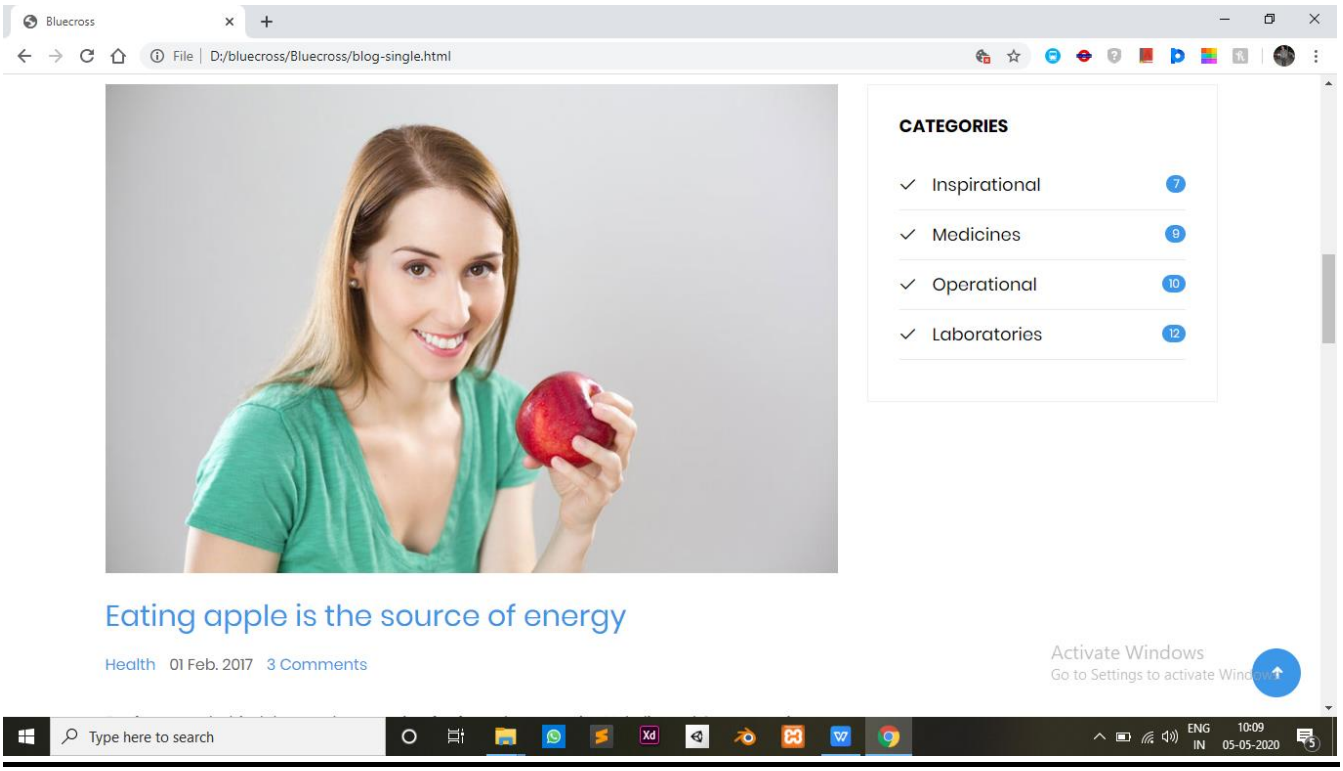

Bluecross
File | D:/bluecross/Bluecross/services.html
BLUECROSS
+91-844867754
+91-9650491386
Sonia vihar, North-East
Delhi, Delhi - 110094
HOME
DOCTORS
SERVICES
DEPARTMENTS
BLOG
CONTACT
Make an Appointment
Plasetic Surgery Department
Dental Department
Psychological Department
Covid Department
Cardiology Department
Neurology Department
Emergency Department
Our Services
file:///D:/bluecross/Bluecross/departments.html
Type here to search
ENG
IN
10:08
05-05-2020

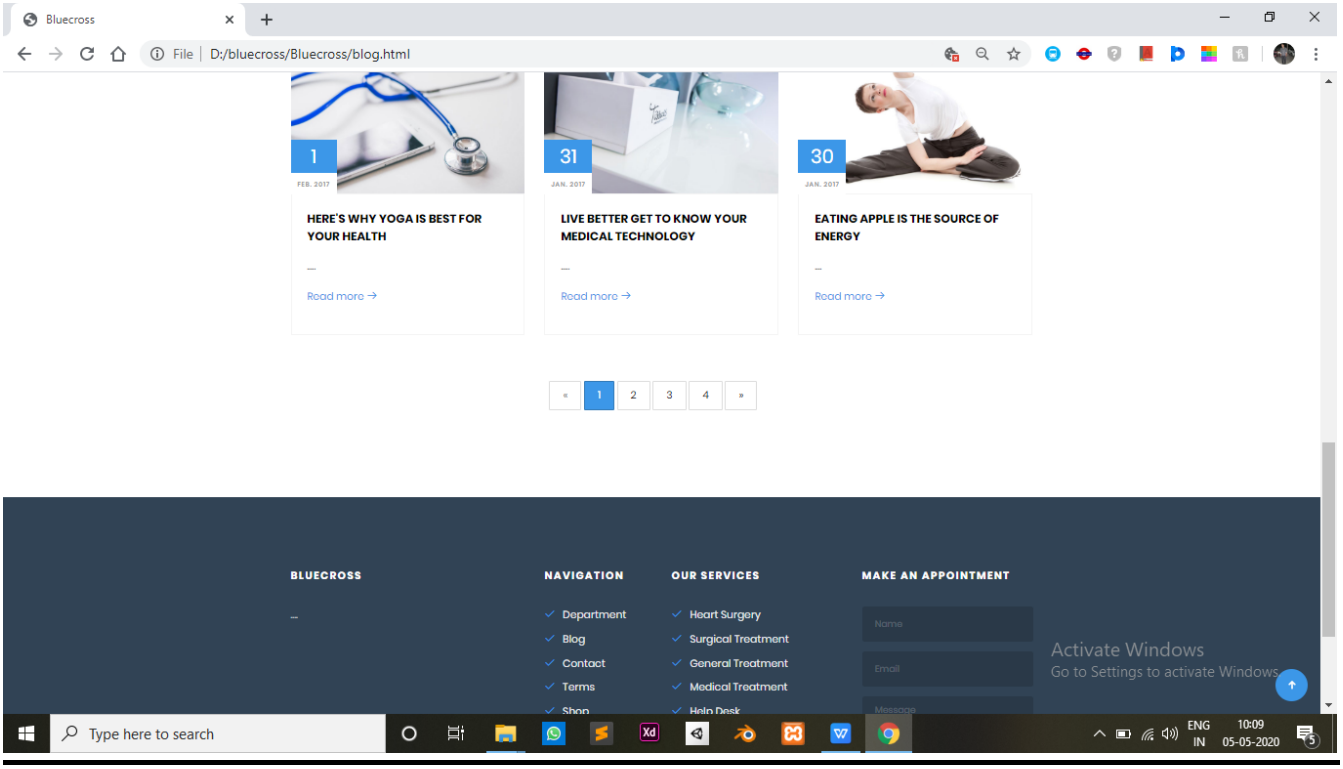

Bluecross
File | D:/bluecross/Bluecross/blog.html
BLUECROSS
+91-844867754
+91-9650491386
Sonia vihar, North-East
Delhi, Delhi - 110094
HOME
DOCTORS
SERVICES
DEPARTMENTS
BLOG
CONTACT
Make an Appointment
Our Blog & Events
Activate Windows
Type here to search
ENG
IN
10:09
05-05-2020

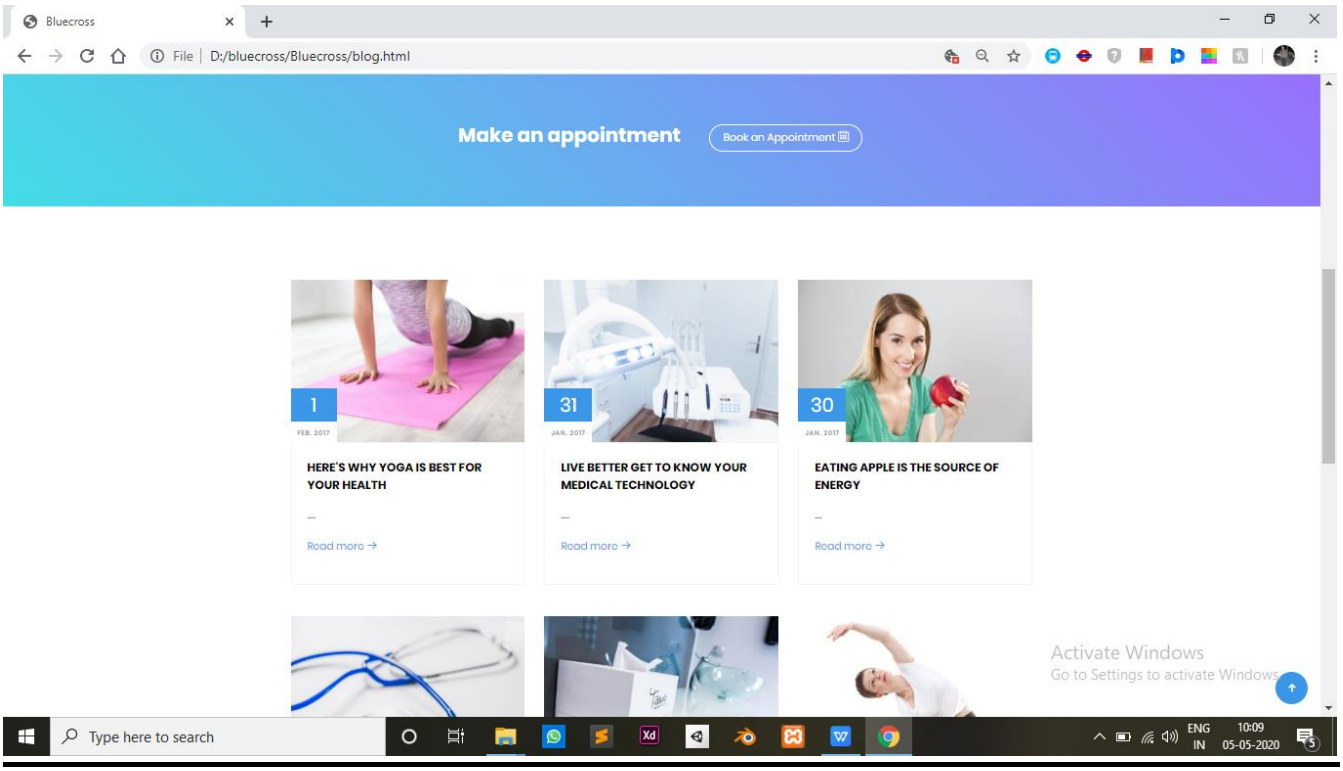

Bluecross
File | D:/bluecross/Bluecross/contact.html
Oops! Something went wrong.
This page didn't load Google Maps correctly. See the JavaScript console for technical details.
BLUECROSS
NAVIGATION
Department
Blog
Contact
Terms
OUR SERVICES
Heart Surgery
Surgical Treatment
General Treatment
Medical Treatment
MAKE AN APPOINTMENT
Name
Email
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
IN
10:10
05-05-2020

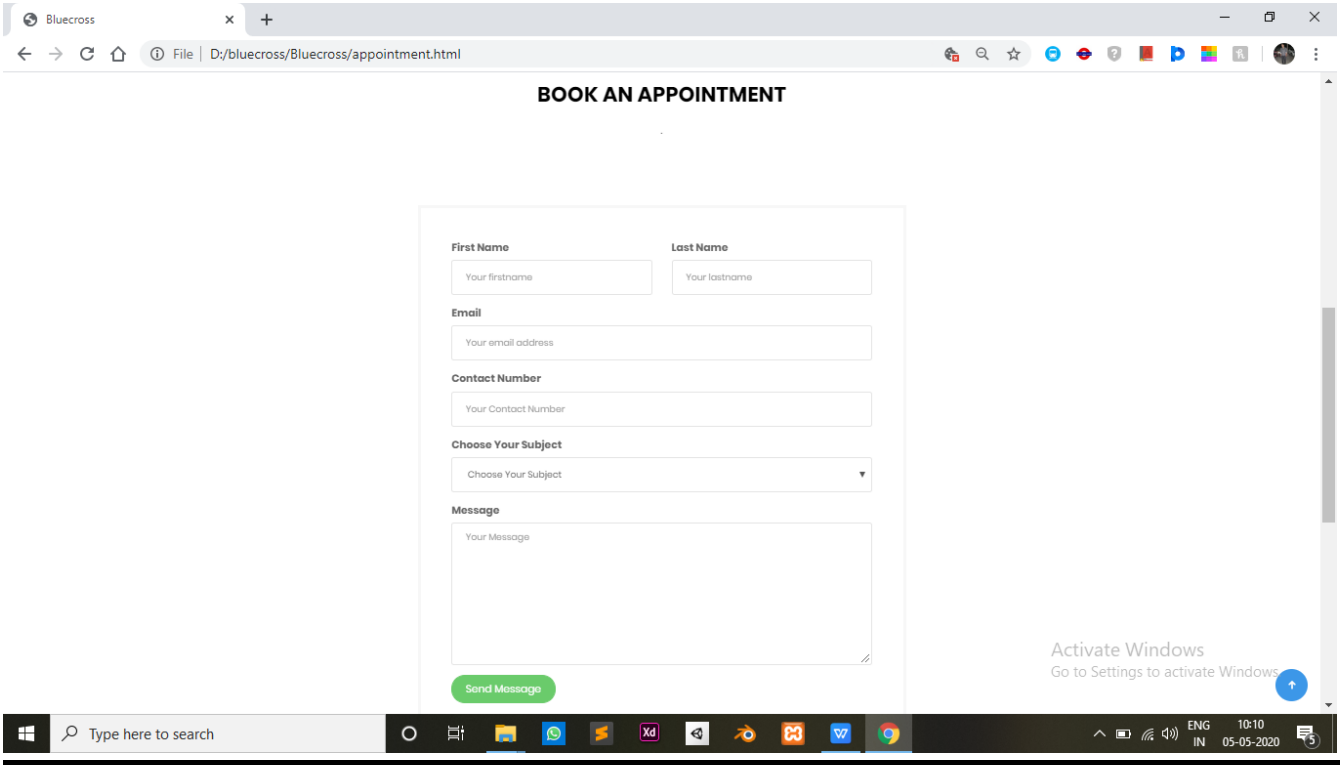

Bluecross
File | D:/bluecross/Bluecross/contact.html
Contact Information
198 West 21th Street,
Suite 721 New York NY 10016
+ 1235 2355 98
info@yoursite.com
yoursite.com
Get In Touch
First Name
Your firstname
Last Name
Your lastname
Email
Your email address
Subject
Your subject of this message
Message
Say something about us
Send Message
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
IN
10:10
05-05-2020


Bluecross
File | D:/bluecross/Bluecross/contact.html
HELPINGHAND
+91-844867754
Sonia vihar, North-East
Delhi, Delhi - 110094
HOME
DOCTORS
SERVICES
DEPARTMENTS
BLOG
CONTACT
Make an Appointment
Contact Us
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
IN
10:10
05-05-2020


Bluecross
File | D:/bluecross/Bluecross/blog-single.html
CATEGORIES
Inspirational 7
Medicines 9
Operational 10
Laboratories 12
Eating apple is the source of energy
Health 01 Feb. 2017 3 Comments
Activate Windows
Type here to search
ENG
IN
10:09
05-05-2020


Bluecross
File | D:/bluecross/Bluecross/blog.html
1
FEB. 2017
HERE'S WHY YOGA IS BEST FOR YOUR HEALTH
Read more →
31
JAN. 2017
LIVE BETTER GET TO KNOW YOUR MEDICAL TECHNOLOGY
Read more →
30
JAN. 2017
EATING APPLE IS THE SOURCE OF ENERGY
Read more →
« 1 2 3 4 »
BLUECROSS
NAVIGATION
Department
Blog
Contact
Terms
Shop
OUR SERVICES
Heart Surgery
Surgical Treatment
General Treatment
Medical Treatment
Help Desk
MAKE AN APPOINTMENT
Name
Email
Message
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
IN
10:09
05-05-2020


Bluecross
File | D:/bluecross/Bluecross/blog.html
Make an appointment
Book an Appointment
1
FEB. 2017
HERE'S WHY YOGA IS BEST FOR YOUR HEALTH
Read more →
31
JAN. 2017
LIVE BETTER GET TO KNOW YOUR MEDICAL TECHNOLOGY
Read more →
30
JAN. 2017
EATING APPLE IS THE SOURCE OF ENERGY
Read more →
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
IN
10:09
05-05-2020


Bluecross
File | D:/bluecross/Bluecross/appointment.html
BOOK AN APPOINTMENT
First Name
Your firstname
Last Name
Your lastname
Email
Your email address
Contact Number
Your Contact Number
Choose Your Subject
Choose Your Subject
Message
Your Message
Send Message
Activate Windows
Go to Settings to activate Windows.
Type here to search
ENG
IN
10:10
05-05-2020

7. CONCLUSION

Since we are entering details of the patients electronically in the" Hospital Management System", data will be secured. Using this Web App, we can retrieve patient's history with a single click. Thus processing information will be faster. It guarantees accurate maintenance of Patient details. It easily reduces the book keeping task and thus reduces the human effort and increases accuracy speed.

8. REFERENCE

1. H. Kargupta et al., "Collective Data Mining: A New Perspective towards Distributed Data Mining," *Advances in Distributed and Parallel Knowledge Discovery*, H. Kargupta and P. Chan, eds., MIT/AAAI Press, 2000, pp. 133–184.
2. M. Cannataro and C. Comito, "A Data Mining Ontology for Grid Programming," *Proc. 1st Workshop Semantics in Peer-to-Peer and Grid Computing*, 2003, pp. 113–134.
3. M.J. Zaki, "Parallel and Distributed Association Mining: A Survey," *IEEE Concurrency*, vol. 7, no. 4, 1999, pp. 14–25.
4. A. Prodromidis and P. Chan, "Meta-Learning in Distributed Data Mining Systems: Issues and Approaches," *Advances of Distributed Data Mining*, H. Kargupta and P. Chan, eds., MIT/AAAI Press, 2000, pp. 81–115.