

ONLINE MEDICAL SERVICE

BY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of
Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project titled “**Online Medical Service**”, submitted by **A.H.M. Mehedi Hasan** and **Md. Mosfiqur Rahman** to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on **27 January 2021**

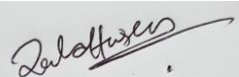
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I hereby declare that, this project has been done by us under the supervision of **Mr. Md. Abbas Ali Khan, Department of CSE** Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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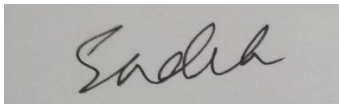


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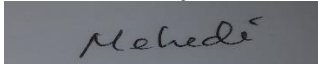


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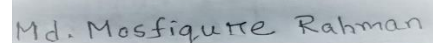
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ABSTRACT

Online administrations are as of now engaging common individuals to have more information and state in their clinical choices. This is heavenly information for individuals who have for a long while been itching to play a more dynamic job in their own medical care, yet have customarily been frustrated by an absence of perceivability into their very own wellbeing information. Online clinical administrations are starting to even the odds in patients; favor, and will at last change the eventual fate of medical services for eternity. So with the innovation progressions, we will jump at the chance to feature another progression being taken for the individuals of Bangladesh for their better clinical consideration.

The entire framework will run on web. The framework is planned in WordPress by utilizing intuitive technique. Clients will have the felicity to sign in from any spot with web association. After that they will have the option to different undertakings that are intended for them. Clients are arranged in two gatherings :(Management, Patient). The essential objective is to zero in on each client who can get our administration and get profited. We can make different bundle and allot different expense.

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LIST OF ABBREVIATION

DIU - Daffodil International University

CSE - Computer Science and Engineering

BD - Bangladesh

IHS - Indian Healthcare Solution

CHAPTER 1

INTRODUCTION

1.1 Introduction

Presently a day's kin has begun to utilize distinctive sort of site and online entryway for their numerous works. In the event that I tell that the world is relying upon sites and applications, it's not off-base. We can utilize online sites for instructing, getting the hang of, purchasing, selling, reaching, shopping and so on For this the world can be a lot simpler to living for people. We realize that we are living in a developing nation like Bangladesh [1]. We have numerous issues as like as food, convenience, health, training and so on Yet, as of late we are attempting to dispose of those issues. Be that as it may, wellbeing area of our nation can't as evolved as we need. For this numerous individuals go to abroad, for example, India to improve treatment. Consistently numerous individuals go to India however a large number of them can't have the foggiest idea about the clinical medical clinic or specialists of India. For this, they face many issue and burn through their time. Remembering this issue. We need to plan a venture which is called online medical service.

An Intuitive electronic virtual help can be characterized as an online clinical and reaching gateway. Here the term 'Intuitive' that characterizes vis-à-vis correspondence which is regularly found in the actual medical assistance [3].

Breaking down a few exploration and related works, this venture shows a powerful route for planning an online virtual medical assistance.

Online medical service: An extraordinary clinical framework where patient can contact with the administration for regular checkup, clinical report examination, emergency clinic area and entire consultancy for go to India. The administration can offer all the clinical types of assistance that the patient or customer need. So the principle rationale of the administration resembles a scaffold between specialists/medical clinics and patients. We additionally give the patient to concede any medical clinic or take them for checkup.

1.2 Objective

- To ensure better medical services.
- To ensure proper guidelines who lives in remote area.
- To provide people find their desire information more easily.
- To reduce the distance between doctors and patients.
- To reduce the hassle of travelling.

1.3 Motivation

Helping others and working for people is very peaceful thing. In this area any researcher can build a website for help the others and try to develop human life. The most important things are that, almost there are very low medical opportunities in the perspective of Bangladesh. This base gives us the inspiration to work on it. The most vital moment that clearly inspired me that this problem become solve by going to abroad from Bangladesh and we are trying to help them.

1.4 Rationale of the Study

The current clinical arrangement of Bangladesh is profoundly reliant on Application Based or site based Framework. However, there is no medical consultancy. The new difficulties is the manner by which to utilize it in. Of this trial path how to satisfy the objective by utilizing the diverse learning strategies [5]. In test Information assortment is intriguing to know the perception of various individuals. Here any specialist can discover remarkable path for accomplishing their ideal objective. The most crucial thing that actually spurred us that there is practically no exploration has been refined dependent on Bangladeshi medical consultancy service. We have taken close by with that since it will accommodating for both poor and rich client. We feel that it will be one of a kind test from others [2].

1.5 Research Questions

We have chosen some inquiry as our examination work which is being addressed stepwise.

- How to investigate the idea of a virtual clinical help where specialists or clinic and individuals can partake intuitively in reaching and getting medical care administration?
- How to make it more compelling generally with regards to Bangladesh?
- How can the distance individuals be profited utilizing this virtual gateway?
- How can the cutting edge clinical consultancy be spread to the each individuals of peaceful zone?
- How can individuals travel without issue?
- How can the powerless individuals concede in an emergency clinic?

1.6 Expected Outcome

Throughout this research, we planned to perform a qualitative analysis according to the research questions and expected to find my-

- Saves patient's time.
- Saves patients from unnecessary long journey.
- Encouraging people to follow the treatment plan properly.
- Anyone from any part of the country will be concerned of any medical center.

1.7 Report layout

Report layout describes a summary of all chapters. A brief summary of all chapters are given below:

Chapter 1: Discusses about my thesis motivation, Rationale of the Study, Research Question and Expected Outcome.

Chapter 2: Introduce with the Background history of the research. It additionally gives us the facts of related works this research. Challenges also are mentioned right here.

Chapter 3: Discusses approximately the technique of my research work. Details works of data mining, machine learning technique. Here also mentioned approximately about the rate collection processes [10].

Chapter 4: Discuss details of the result outcome and mentioned about as and out of that's project with experiment and result.

Chapter 5: Discuss my research with future scope that can be performed and conduct the thesis.

CHAPTER 2

BACKGROUND

2.1 Introduction

At the point when we are starting to make this task "Online Medical Service", we did a high report about its experience. At that point assemble data we are isolated into various areas and draw this venture. At last, we are executing bit by bit and make a web based project. Each part fabricates another component and furthermore make Easy to understand plan [9]. This area show project foundation related work.

2.2 Related work

The online medical help framework is a web application that is utilized to each individual in our nation. Particularly provincial regions individuals need without a doubt and furthermore need specialists for this application [4]. These working specialists and patients balanced interface the two of them. The patients can consult with the management to know about the doctors, hospitals, test reports etc. They can take suggestions and help for their whole treatment in a reasonable cost. This part show foundation related work.

2.2.1 BD Health Solution

BD Health Solution is an online medical service and consultant provider in Bangladesh. It is a digital healthcare service [6].

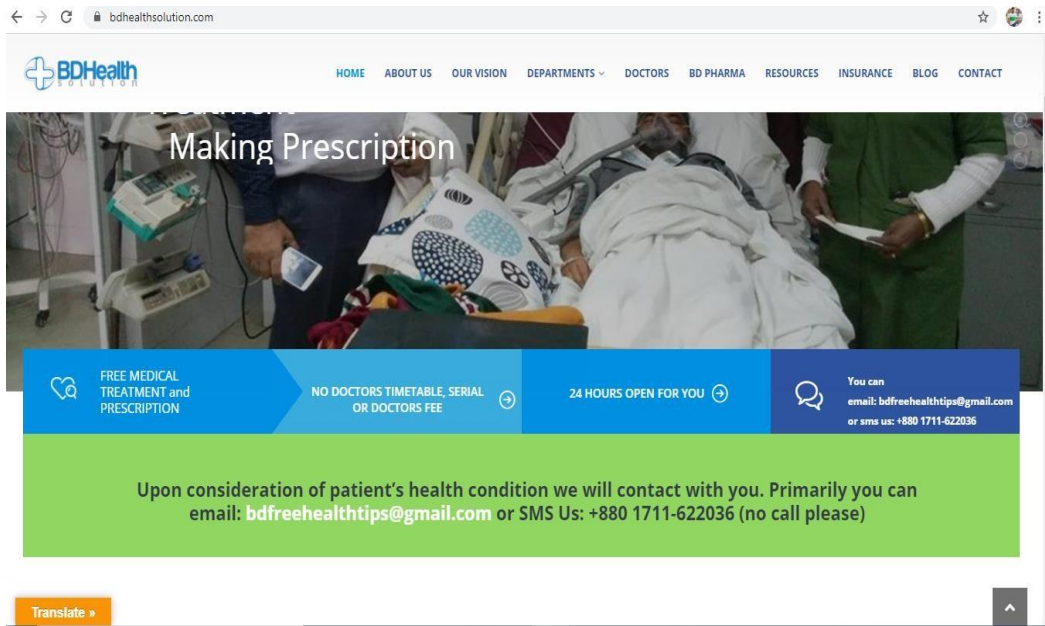


Figure 2.1: BD Health Solution site

Utilizing portable correspondence and data innovation BD Health Solution will be an effectively available medical care administration. Yet, has constraint administrations BD Health Solution [6]. No foreign connection, Limited doctors.

Features

- Like an online hospital
- Each kinds of doctors are available
- Online appointment is available
- Online pharmacy is available

2.2.2 iclinic

iclinic is an online clinical administrations framework yet has some impediment break [13]. This web application has a few highlights appeared underneath picture.

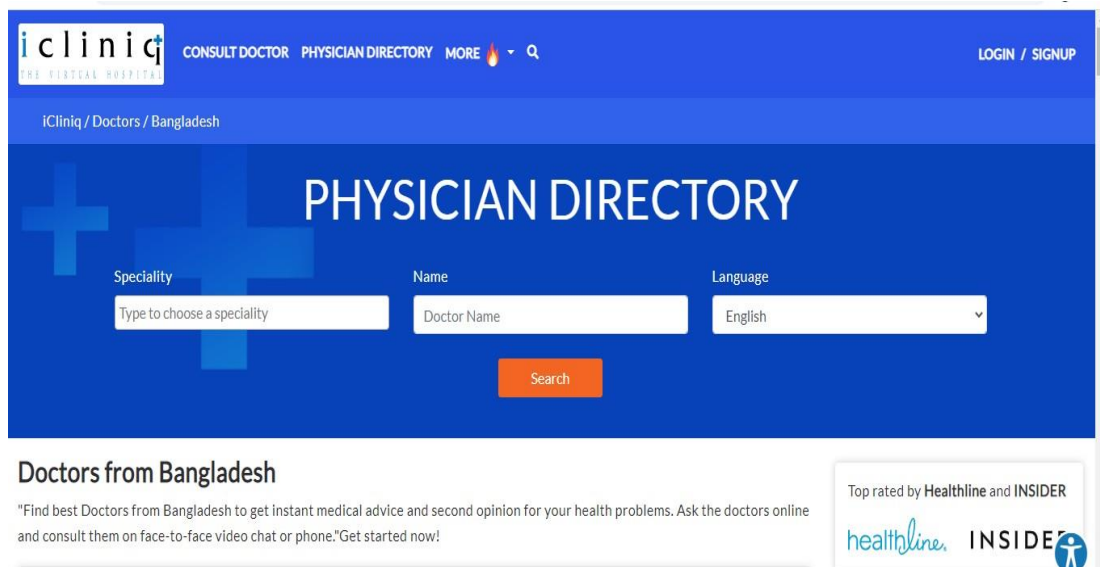


Figure 2.2: iclinic site

Features

- Online consultant services
- Various doctors
- Physician directory

2.3 Comparative Studies

BD health solution and iclinic online health service site. BD health solution provide limited services to patients. No foreign connections, limited types of doctors, no consultancy. iclinic also provides very limited services. No provides pharmacy information, no foreign doctors are available, no hospital system. Those site has partial service as like online doctor, online appointment. But our site is far better than those. People get medical-based all info just a moment. The patient can appoint foreign best doctors, get the desired hospital they need, get the virtual consultancy, get us like their helping hand in the foreign [10] .

We are a specialist as well as work as a scaffold among patient and medical clinic. The patient can contact with us for their clinical issue. We gather their clinical reports and recommend them for the best specialists and clinics. We can give them

the arrangement of the specialists in a brief timeframe. On the off chance that they need, we can likewise concede them to the medical clinic and take them for exam. So you can tell that we are the best arrangement creator site for the patients [11]. For the most part those individuals who need to go to India for better treatment we gives them the arrangements and help them.

2.4 Scope of the Problem

1. The crisis patients deals with a seat in the clinic through us.
2. Handle patients in India.
3. Protect this site from programmers and saltines.

2.5 Challenges

Many patients handling

At one-time many patients and management interconnection. Then live chat, doctors' appointment fixes, hospital arrangement. Also, be provides medicine who needs. Sometimes the ambulance arrangement finds out the patient's condition which needs this. patients' satisfaction acquire.

History allocation

Patient previous interactions, prescribe medicine files, medical reports. Which doctors provide the patient . Quality Doctors list and patient Reviews also be allocated.

Provide the best hospitals

It's very necessary to give the best hospital and doctor services for the patients.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Model

Our undertaking is a business based model will be given advisor the patient, tolerant arrangement and give them the best administrations for treatment. We give numerous proposals on various event. As typically EID, Durga puja, New Year, Independent Day, International Mother language Day, etc. Another Discount we give destitute individuals and elderly folks individuals. Our offers Range 5-100%. Particularly the Rural region individuals living in beneath neediness we are centered around this and give them particularly markdown [3]. We guarantee well treatment finds appropriate time this site. Additionally, give limits offers non-benefit associations as typically vagrants, understudy, and Teachers. Something else is that we give rescue vehicle administrations. We are furnished with a markdown offer for both of its. Likewise, Arrange Blood gift and free blood checking. Online clinical administrations framework coordinate numerous occasions in various event. It incorporates our business strategy.

3.2 Requirement Collection and Analysis

At the point when we are beginning this task first analysis and top off necessities. At that point we complete this task.

1. Used Coding: The fundamental requirements of our project needs no coding. We are using WordPress theme through drag and drop policy.
2. Tools and compiler: Chrome, Subline, Astra.

3.3 Workflow Diagram Modeling and Description

A work flow diagram is a visual portrayal of a business cycle (or work process), normally done through a flowchart. It utilizes normalized images to portray the specific advances expected to finish a cycle, just as bringing up people liable for each progression [5].

1. A workflow diagram can be extremely helpful with analysis
2. By seeing how the business works from a top-down perspective, you can identify it's potential flaws, weaknesses, and areas for improvement.

3.3.1 Activity Diagram for Patient

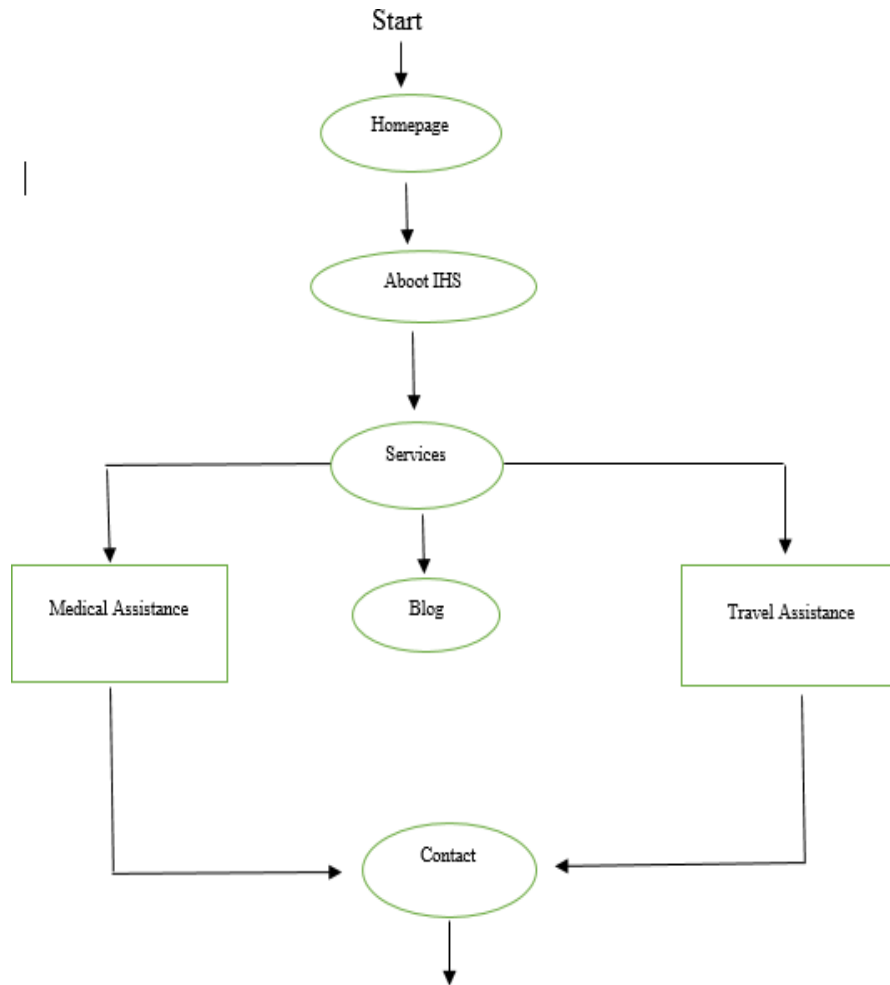


Figure 3.1: Activity diagram for patient

Activity Diagram for Patient Details

Start : User can start

Homepage : See the homepage of the site

About IHS : User can know about the site

Services : User get 3 services:

Medical Assistance, Travel Assistance, Blog

Contact : Find the contact option

3.3.2 Activity Diagram for Admin



Figure 3.2: Activity diagram for Admin

Activity Diagram for Admin Details

Start	: Admin start the site
Log In	: Admin can Log In using password And Log In success
Admin Dashboard	: Dash board panel from where Admin can control
Log out	: Admin can Log out from Admin panel
End	: Process end

3.3.3 Class Diagram

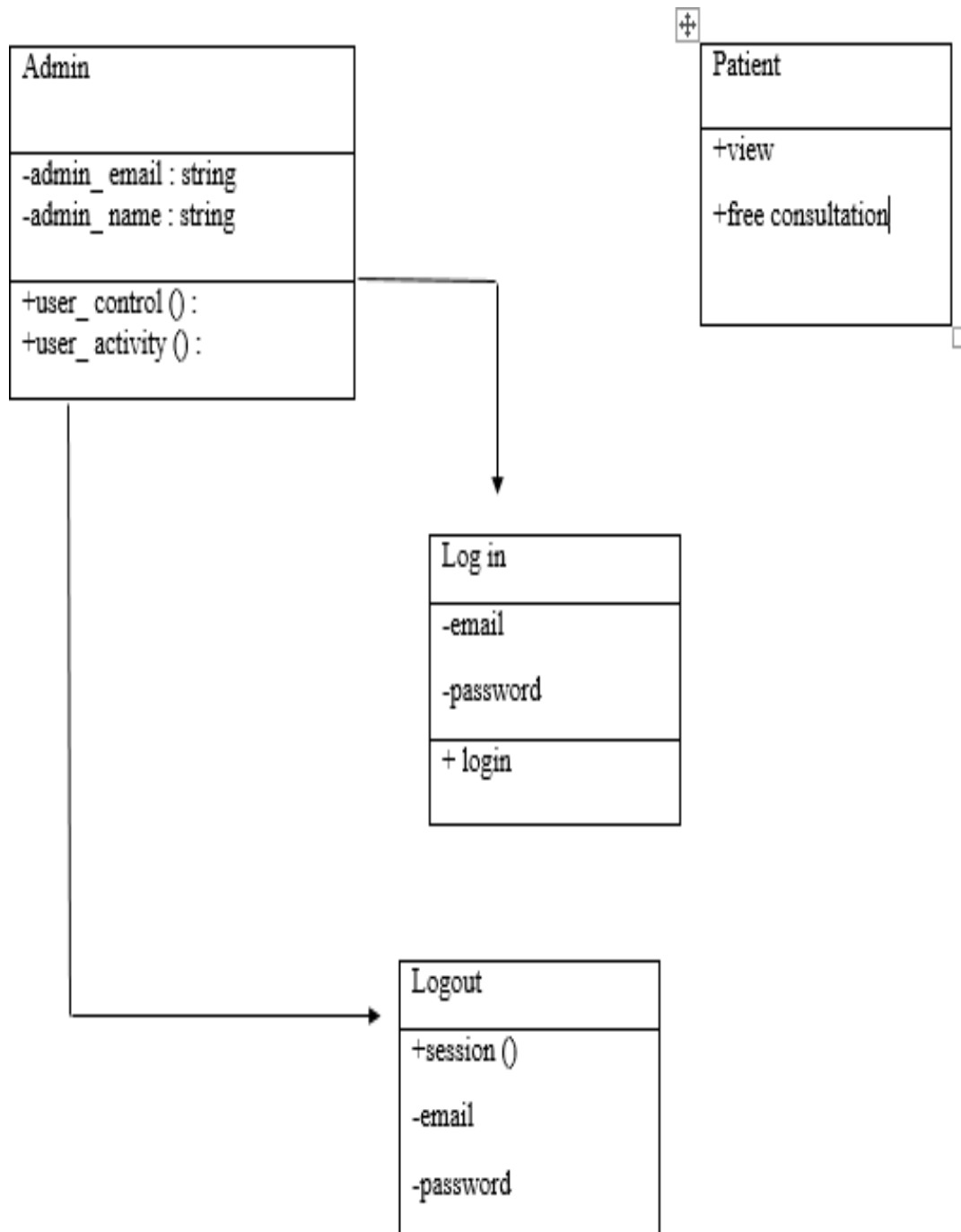


Figure 3.3: Class Diagram

3.3.4 Entity Relationship Diagram

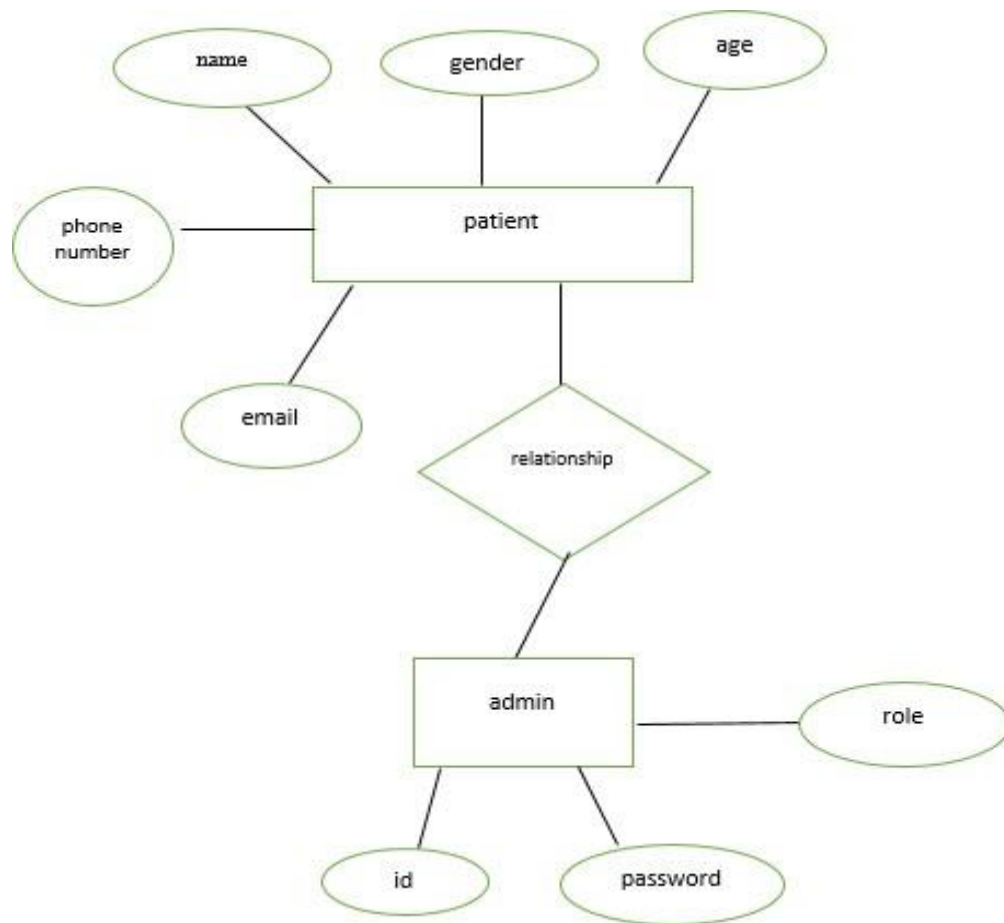


Figure 3.4: Entity Relationship Diagram

Patient : name, gender, age, email, phone number

Admin : id, password, role

3.4 Design Requirements

The web-based application needs plan particular subtleties that have data that gives UIs [10]. As typically patients and consultant get simpler data.

Design use much technologies : The fundamental requirements of our project needs know WordPress and some coding.

3.4.1 Front-end Design

1. Home page
2. About section
3. User free consultation site
4. Medical report attachment option
5. Services (Medical Assistance, Travel Assistance)
6. Blogs
7. Layout design etc.

3.4.2 Back-end Design

1. Admin
2. All process control back-end
3. Plugins
4. Massage chat
5. Media contents
6. Contact etc.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Font page represent website main view. The web-based application needs design specification details that have information that provides user interfaces is called UI (user interfaces) [11].

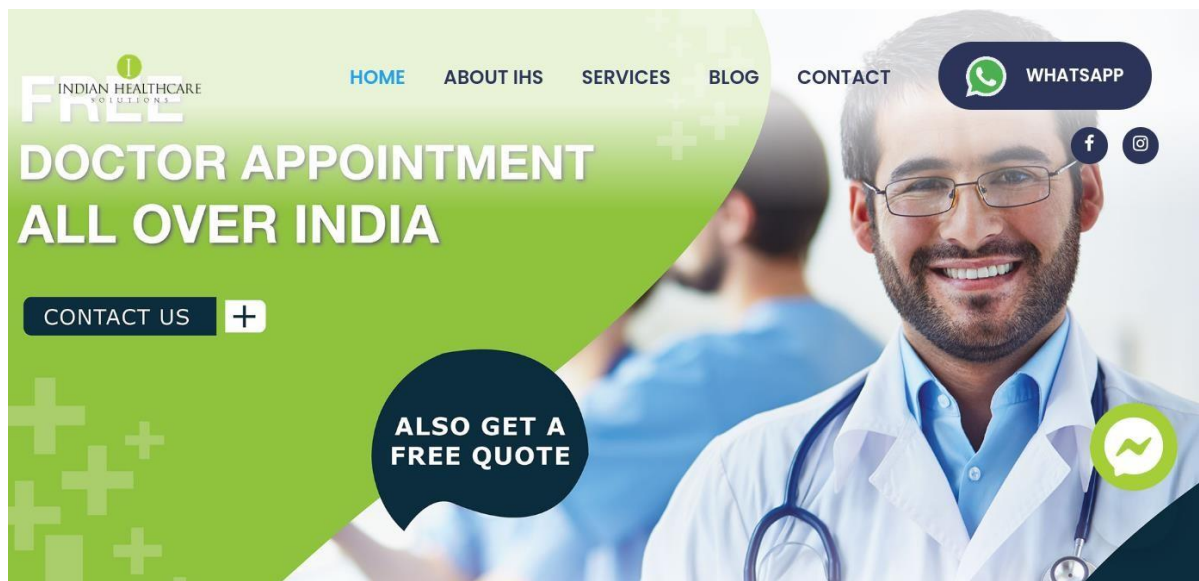


Figure 4.1: Front- end home page

Why Choose a Health hcare Facilitator



Figure 4.2: Front- end about section home page

When it comes to visiting India we publish **blogs** every week to help enlighten you about accommodation, transport, medical treatment, doctors, visa etc. You can tell us how helpful these tips were or suggest to us what would you like us to write about further at info@indianhealthcaresolutions.com

And in case you need any assistance feel free to **contact us or write to us**. To know more **about Indian Healthcare solutions** and its **services** visit our website www.indianhealthcarsolutio.com .

Share:    

Figure 4.3: Front- end about home page

Request a Free Consultation

Whatever your medical / Travel needs are, we're here to help life go right. Get a quote or [talk to a facilitator](#).

Name*

Age*

Gender*

Number*

Email

Country/Region*

Message

Documents

Upload reports or any other documents for more information.

No file chosen



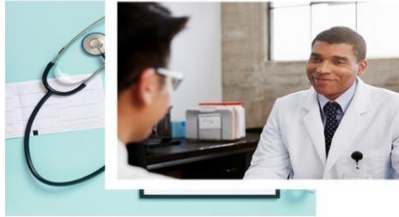
Figure 4.4: Front- end free consultation page



Services

Our Medical Assistance

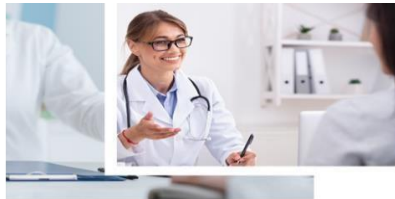
At Indian Healthcare Solutions (IHS), we offer the best services for all sorts of Medical Assistance, along with qualified medical health care. The services are as follows.



Consultancy

As a medical consultant, Indian Healthcare Solutions work on the primary motto of providing minimal and reasonable health care in the country. We cater to various dimensions to make sure the patient is covered from all the sides. Indian Healthcare Solutions (IHS) offers medical consultancy assistance giving visitor(s) medical care by a practitioner organization endured in all fields of post-marketing, clinical protection including medical knowledge. When it comes to the advisory section, we try our level best to give proper information to the patient about their issues and potential hospitals and doctors for the best treatment possible in India.

[CONTACT US](#)



Doctor's Appointment

Digitizing medical practice improves the performance and potency of the experts as it offers a centralized platform to maintain the health care solutions and records of the victims. The electronic health records also make it easier for us to manage the appointment and to access the patient's therapeutic experiences and follow their development allowing better treatment results. At Indian Healthcare Solutions (IHS), you can experience the free doctor's appointment in 5 major cities in the country. This includes famous and reputed hospitals and doctors to get the right medical assistance.

Doctors appointment is a crucial aspect in a country where significant doctors settle in big cities, and patients approach from all corners of the world. To make sure, you have a hassle-free consultation, we offer you with the probable timings to and get your appointments fixed with concerned doctors. We have the online doctor scheduling assistance that brings thousands of patients throughout the year.

[CONTACT US](#)



Request a Free Consultation

Whatever your insurance coverage needs are, we're here to help life go right. Get a quote or [talk to a facilitator](#).



Figure 4.5: Front- end Medical assistance page

Our Travel Assistance

Indian Healthcare Solutions (IHS) offers seamless medical travel services for patients who need to travel abroad for treatments. The services include the following.



Visa Assistance

Indian Healthcare Solutions work with the full arrangement of medical travel and visa assistance. We have dedicated teams to keep updated on the rules and regulations of the High Commission/Embassy of India along with the External Affairs Ministry that relates to medical travel and assistance. We will give visa and tour support to patients attempting to avail of medical services in other countries. As a reputed healthcare facilitator in India, we lean towards offering comprehensive travel assistance for medical reasons, accommodation, and other needed services.



Accommodation

From Indian healthcare solutions (IHS), patients can also get to know about different accommodation facilities available nearby. We need to give proper information for the dwelling of our patients. We have contacts for hotels and serviced apartments. We understand it is difficult to get hold of living places for patients who, at times, need to stay for a long time or their treatments at different locations near to the hospitals. Be it any part of the operational cities; we will help to book an appointment and render proper accommodation facilities. Your doctor's appointment in India will be seamless with IHS comprehensive services.




Figure 4.6: Front- end travel assistance page

4.2 Back-end Design

Admin Content

Profile Picture



You can change your profile picture on [Gravatar](#).

Account Management

New Password

Sessions

Did you lose your phone or leave your account logged in at a public computer? You can log out everywhere else, and stay logged in here.

Yoast SEO settings

Title to use for Author page

Personal Options

Visual Editor
 Disable the visual editor when writing

Syntax Highlighting
 Disable syntax highlighting when editing code

Admin Color Scheme

<input checked="" type="radio"/> Default 	<input type="radio"/> Light
<input type="radio"/> Blue 	<input type="radio"/> Coffee
<input type="radio"/> Ectoplasm 	<input type="radio"/> Midnight
<input type="radio"/> Ocean 	<input type="radio"/> Sunrise

Keyboard Shortcuts
 Enable keyboard shortcuts for comment

First Name

Last Name

Nickname (required)

Display name publicly as

Contact Info

Email (required)

Website

Figure 4.7: Admin content

Plugins

Plugins [Add New](#)

[All \(8\)](#) | [Active \(8\)](#) | [Update Available \(2\)](#)

Plugin

All In One Addons for WPBakery Page Builder (formerly Visual Composer)
[Deactivate](#)

Includes all my premium addons for WPBakery Page Builder, like Flip Box, Cube Box, Metro Carousel and Tile, Carousel & Gallery, Tabs, Accordion, Image Hotspot with Tooltip, Parallax, Medium Gallery, Stack Gallery, Expand Grid, iHover etc.

Version 3.5.4 | By [Sike](#)

Contact Form 7
[Settings](#) | [Deactivate](#)

Just another contact form plugin. Simple but

WP GDPR Compliance
[Settings](#) | [Deactivate](#)

This plugin assists website and webshop owners to comply with European privacy regulations known as GDPR. By May 24th, 2018 your website or shop has to comply to avoid large fines.

Version 1.5.4 | By [Van Ons](#) | [View details](#)

 There is a new version of WP GDPR Compliance available. [View version 1.5.5 details](#) or [update now](#).

WPBakery Page Builder
[Settings](#) | [Deactivate](#)

Drag and drop page builder for WordPress. Take full control over your WordPress site, build any layout you can imagine – no programming knowledge required.

Version 6.0.5 | By [Michael M - WPBakery.com](#) | [View details](#)


 There is a new version of

Figure 4.8: Plugins

Layouts

Layouts

Add New

Hola! Would you like to receive automatic updates  and unlock premium support? Please [activate your copy](#) of WPBakery Page Builder.

All (3) | **Published** (3)

<input type="checkbox"/>	Title ▲
<input type="checkbox"/>	Header InsuGroup – without Page Title ▼ Edit Quick Edit Trash Edit with WPBakery Page Builder
<input type="checkbox"/>	Header InsuGroup – without image ▼ Edit Quick Edit Trash Edit with WPBakery Page Builder
<input type="checkbox"/>	Header Indian Healthcare Solutions ▼ Edit Quick Edit Trash Edit with WPBakery Page Builder
<input type="checkbox"/>	Title

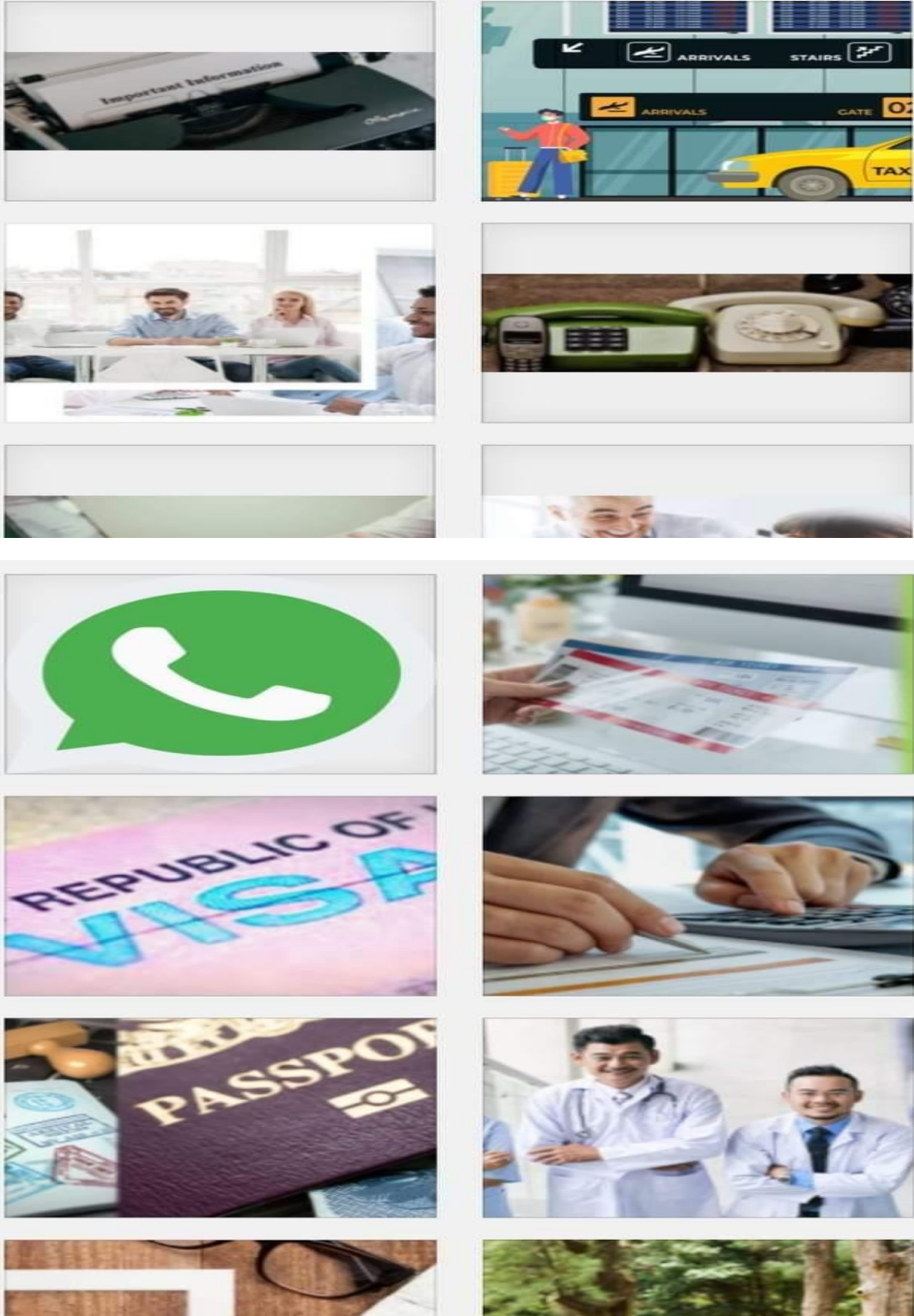
Figure 4.9: Layouts

Media Contents

☰ ☒ All media items ▾

All dates ▾ Bulk Select

Search media items...



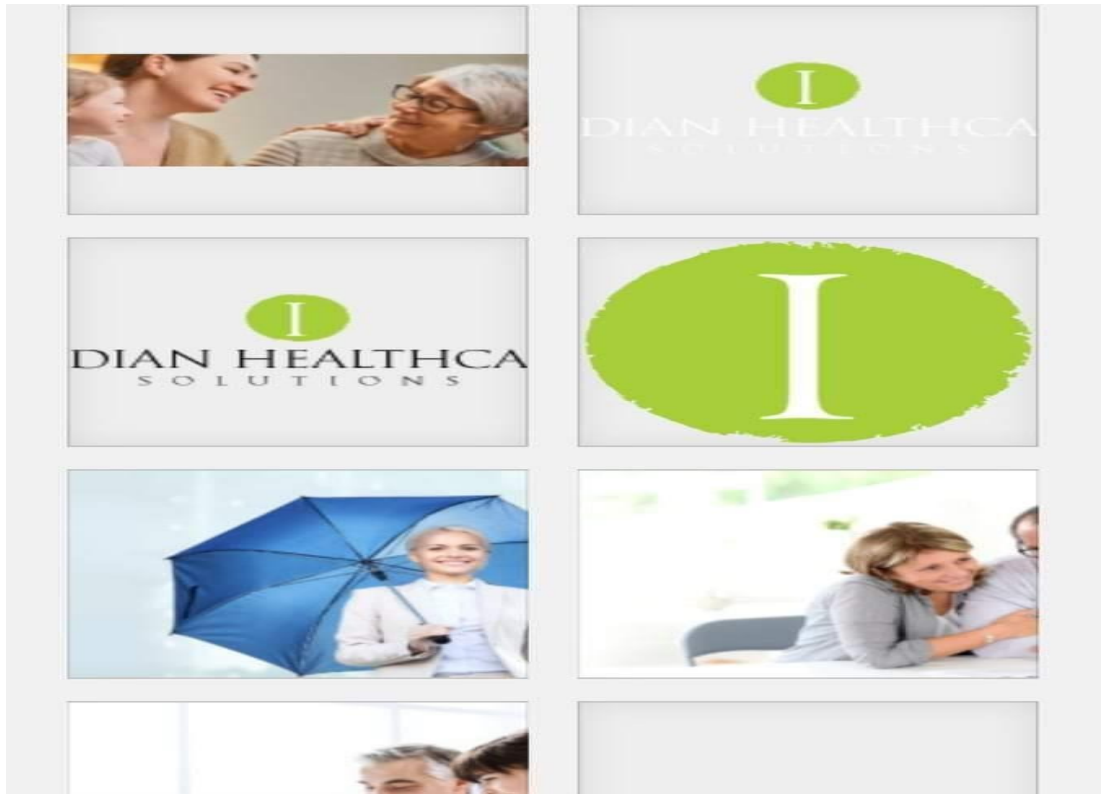


Figure 4.10: Media contents

Live Chat



Figure 4.11: Live chat option

CHAPTER 5

TESTING

5.1 Testing Implementation

System testing is a significant advance in unique sites and static sites. There are many trying frameworks continue in model time.

As like Black Box Testing, white box testing, stress testing, and cross-browser testing system.

5.1.1 Black Box Testing

Black Box Testing system we are given information find to test yield. This testing framework inner variable info variable test numerous means at that point discover the yield [9]. Discovery Testing is the best testing framework right now. It is a mainstream testing framework.

5.1.2 White Box Testing

White Box Testing nearly equivalent to a discovery testing framework. Numerous means passing at that point discover yield. This gives an unmistakable thought regarding what is happening during the execution of the framework. The focuses at which the bug happens were all unmistakable and were eliminated.

5.1.3 Cross Browser Testing

Cross Browser Testing is a sort of testing to check if an application works across various programs true to form and debases nimbly. Cross Browser Testing is the way toward confirming your application's similarity with various programs [3].

1. Mozilla Firefox
2. Chrome
3. Opera 5
4. Microsoft Edge
5. Safari etc.

5.2 Test Results and Reports

Online medical service execution is better. At the point when we test this site each time is smarter to get criticism.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

The online Medical Services framework is finished with numerous highlights that help create clinical therapy system. It is done with WordPress framework. Online Medical administrations are dynamic and easy to use site [1]. This site advantage in our nation. Additionally, benefits specialists and patient. Particularly in provincial regions, individuals advantage definitely. This undertaking offers types of assistance beginning as quickly as time permits. Online Medical Services is secure administrations framework don't streak any data. Whatever is specialists or patients.

6.2 Scope for Further Developments

The online Medical Services framework needs high exposure to cause it's renowned in our nation. That necessities to build up our locale solid. In not so distant future online clinical administrations, create android and ios [12]. The online Medical administrations framework needs promoting when a rustic region individuals well information on this task. So needs exceptionally qualified workers.

1. Do Smartphone user-friendly apps develop .

2. It can be supplied for international Use.
3. Spread worldwide.

6.3 Implementation for further study

- Interface design will be updated.
- More features and functionalities will be added.
- Reliability of the application should be increased.
- The application will be responsive as to be compatible to any device .

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