

**DEVELOPMENT OF A WEB APPICATION NAMED
“GOODBYE DEPRESSION”**

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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DAFFODIL INTERNATIONAL UNIVERSITY

DHAKA, BANGLADESH

January 2023

APPROVAL

This Project titled “**GOODBYE DEPRESSION**”, submitted by Amit Kirti Mondal, ID No: 162-15-754 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 23-01-2023.

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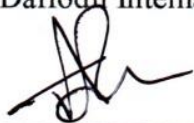
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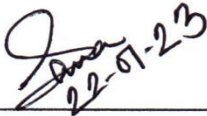
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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Taslima Ferdaus Shuva, Assistant Professor, Department of CSE** Daffodil International University. We 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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ACKNOWLEDGEMENT

First, we express our heartiest thanks and gratefulness to almighty God for His divine blessing makes us possible to complete the final year project successfully.

We really grateful and wish our profound our indebtedness to **Taslima Ferdous Shuva, Assistant professor**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor helped us to carry out this project. Her endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to the Head, Department of CSE, for his kind help to finish our project and also to other faculty member and the staff of CSE department of Daffodil International University.

We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

This web based project is a web application for providing medical consulting service for depressed people or the people who need mental treatments. Depression is a typical mental problem nowadays, and this is the principal justification behind such countless crimes. It is one of the principal reasons for endeavoring self-destruction. Individuals are not cognizant of it, and they need some consultancy moreover. So, we attempted to work on something for those individuals. We made this site to give backing to those individuals. We planned this site so they could speak with specialists and seek the appropriate treatment. The framework is straightforward to use and we attempted to make it as basic as possible. Specialists can likewise make their profiles and can get some entrance for giving the treatment. The fascinating part is that our site isn't for a wide range of health-related treatments yet just for giving emotional & mental health treatment, and to that end, our site is interesting. Therefore, our site is not the same as other medical benefit giving sites. Our primary reason for doing this undertaking is to give support to intellectually debilitated and discouraged individuals who need mental help and direction. We hope it will diminish the level of discouraged individuals in our general public. Therefore, we are anticipating social brutality; suicides will be decreased too.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Depression is a typical mental issue influencing in excess of 264 million individuals around the world. It is portrayed by tenacious misery and indifference or delight in already fulfilling or agreeable exercises. It can likewise upset rest and hunger; sleepiness and unfortunate focus are normal. Melancholy is a main source of inability all over the planet and contributes enormously to the worldwide weight of infection. The impacts of melancholy can be dependable or repetitive and can emphatically influence an individual's capacity to work and carry on with a compensating life.

The reasons for depression incorporate complex associations between friendly, mental, and natural variables. Life occasions, for example, adolescence misfortune, misfortune, and joblessness add to and may catalyze the advancement of discouragement.

Mental and pharmacological medicines exist for moderate and serious gloom. Notwithstanding, in low-and center pay nations, treatment and backing administrations for gloom are frequently missing or immature. An expected 76-85% of individuals experiencing mental problems in these nations need admittance to the treatment they need.

The side effects of depression can include:

- a discouraged state of mind
- decreased interest or joy in exercises once appreciated
- a deficiency of sexual longing
- changes in hunger
- accidental weight reduction or gain
- dozing excessively or excessively little
- disturbance, fretfulness, and pacing all over

- eased back development and discourse
- weariness or loss of energy
- sensations of uselessness or culpability
- trouble thinking, focusing or deciding
- repetitive considerations of death or self-destruction, or an endeavor at selfdestruction

In females: Depression is almost twice as normal among ladies as men, as per the Habitats for Infectious prevention and Avoidance (CDC).

Below are a few side effects of misery that will generally show up additional in females:

- peevishness
- uneasiness
- state of mind swings
- weariness
- ruminating (harping on inadequate considerations)

In males: Around 9% of men in the U.S. have sensations of sorrow or uneasiness, as indicated by the American Mental Affiliation. Guys with sorrow are more likely than females to savor liquor abundance, show outrage, and participate in risk-taking because of the problem.

Different side effects of depression in guys might include:

- keeping away from families and social circumstances
- working without a break
- experiencing issues staying aware of work and family obligations
- showing the harmful or controlling ways of behaving seeing someone

In college students: Time at college can be distressing, and an individual might be managing different ways of life, societies, and encounters interestingly.

Therefore, a few understudies experience issues adapting to these changes, and they might foster sadness, tension, or both. Side effects of melancholy in understudies might include-

- inconvenience zeroing in on schoolwork
- sleep deprivation
- resting excessively
- a reduction or expansion in hunger
- avoiding social conditions and activities that they used to appreciate.

In teens: Actual changes, peer pressure, and variables can add sadness to youngsters. They could experience a piece of the going with incidental effects:

- pulling out from friends and family
- trouble focusing on homework
- feeling remorseful, powerless, or useless
- fretfulness, for example, a failure to stand by

In children: That's what the CDC assesses; in the U.S., 3.2% of kids and teenagers matured 3-17 have a finding of despondency. In youngsters, side effects can make homework and social exercise testing. They might encounter side effects, for example-

- Crying
- low energy
- tenacity
- disobedient way of behaving
- vocal explosions

More energetic adolescents could encounter issues imparting how they feel in words.

This can make it harder for them to sort out their difficult situations.

So, for those mentioned reasons - we decided to step forward of making such a website that would help people for the development of their mental health.

1.2 Motivation

Misery can influence anybody - even an individual who seems to live in generally ideal conditions.

A few elements can assume a part in discouragement –

Biochemistry: Contrasts in specific synthetics in the cerebrum might add to the side effects of melancholy.

Genetics: Sorrow can run in families. For instance, assuming one indistinguishable twin has sadness, different has a 70 percent chance of having the ailment at some point throughout everyday life.

Personality: Individuals with low confidence, who are effectively overpowered by pressure, or who are by and large skeptical give off an impression of being bound to encounter wretchedness.

Environmental factors: Ceaseless openness to viciousness, disregard, misuse, or neediness might make specific individuals more defenseless against wretchedness. More than 700000 individuals pass on self-destruction consistently. Besides, there are more than 20 self-destruction endeavors for every self-destruction. Suicides and self-destruction endeavors affect families, companions, partners, networks, and social orders. Suicides are preventable. Much should be possible to forestall self-destruction at the individual, local area, and public levels. We need to give standard treatment to everyone from our site so that individuals can get a superior life and save from self-destruction and others exercises.

1.3 Objectives

We expect our task will help other people in numerous ways and they will get a superior life. We are exceptionally sure to offer quality assistance to the clients. Therefore, their life will turn out to be more outstanding.

1.4 Expected Result

We hope & believe that, our website will play a very important role on mental health improvement of the patients, also it will help to spread positivity in the society. It will also increase the social awareness as well. Also, we hope that it will help to establish a trend of taking support from a mental health specialist when someone is feeling down.

1.5 Report Scheme

Here is the report design that used to make this report on web application of Medi Consulting -

- Every themes are covered with the connected data.
- All themes are separated for certain sections consequently it very well may be straightforward.
- Figs and pictures are utilized to get the points content all the more without any problem.
- Required text style and size is utilized to put together every one of the items in the report.
- Explicit edges and spaces are utilized to arrange the items.
- List items are utilized to precisely depict the substance esteem more.
- Required arrangement and menus are utilized to handily get every one of the items more

1.5.1 System Analysis & Design

Systems analysis is a method used to study a system by examining its parts and how they interact. Structured data analysis is the process of analyzing the flow of information within an organization using data flow diagrams.

An important purpose of system analysis and design is to improve a reliable system. This process includes creating or acquiring software applications and training employees to use.

We have followed the following steps for implementing our project-

- We identified the user for whom we are designing
- Identified main goals of doing it
- Tried to make the whole system easier & user friendly
- Designed flow chart, UML, UI & other useful diagrams
- Defined main navigation path

1.5.2 Development & implementation

We used HTML, CSS, JavaScript, Bootstrap, ASP.net Core, Microsoft SQL Server.

We took help of internet for doing research, making diagrams & watching tutorials.

1.5.3 Testing

System testing is very important before accomplishing a project. So, we tested our system for the multiple time & every time we followed the mentioned steps-

- Unit testing
- Function testing
- Performance & accuracy testing
- Bug fixing
- Interface testing

1.5.4 Maintenance

Website maintenance is the process of keeping a website up to date and running smoothly and optimally. This part is too important of running a project properly & we did not allowed any compromise of it. We always tried to make it compact, user friendly & free of bugs.

CHAPTER 2

BACKGROUND ANALYSIS

2.1 Introduction:

We used HTML for markup webpage, CSS for portrayal of the webpage and JavaScript for scripting the web page, Bootstrap for making it more presentable. We used SQL server for the backend database, ASP.net Core for framework.

More detailed explanations are included in the fifth chapter of this report.

In this site, there are a few pages and segments.

They are -

Home page: This is the absolute first page of the site. Guests can investigate and can get a few thoughts regarding the site.

Contact us: From this part, they'll have the option to be aware of our administration.

About: Site viewers will get spotless insights concerning us.

Services: Service & other facilities

Login: For individual login.

User Registration: A user will be able to register as a doctor or as a patient. They have to provide all required information for being registered.

Appointment Calendar: There will be calendar for both users (Doctor/Patient) for getting the update of appointment.

Email Notification: Patient will get email notification if the appointment approved by the doctor.

2.2 Related work:

We investigated a ton however didn't find something almost identical work like our own. There are a few web journals and irregular locales which are not completely devoted for psychological well-being.

So, we planned and made this framework which is completely devoted for giving emotional well-being support and medication.

But we found something interesting from the website of United Hospital from Bangladesh. Their appointment system UI was quite good looking. But they use it for multipurpose appointments.

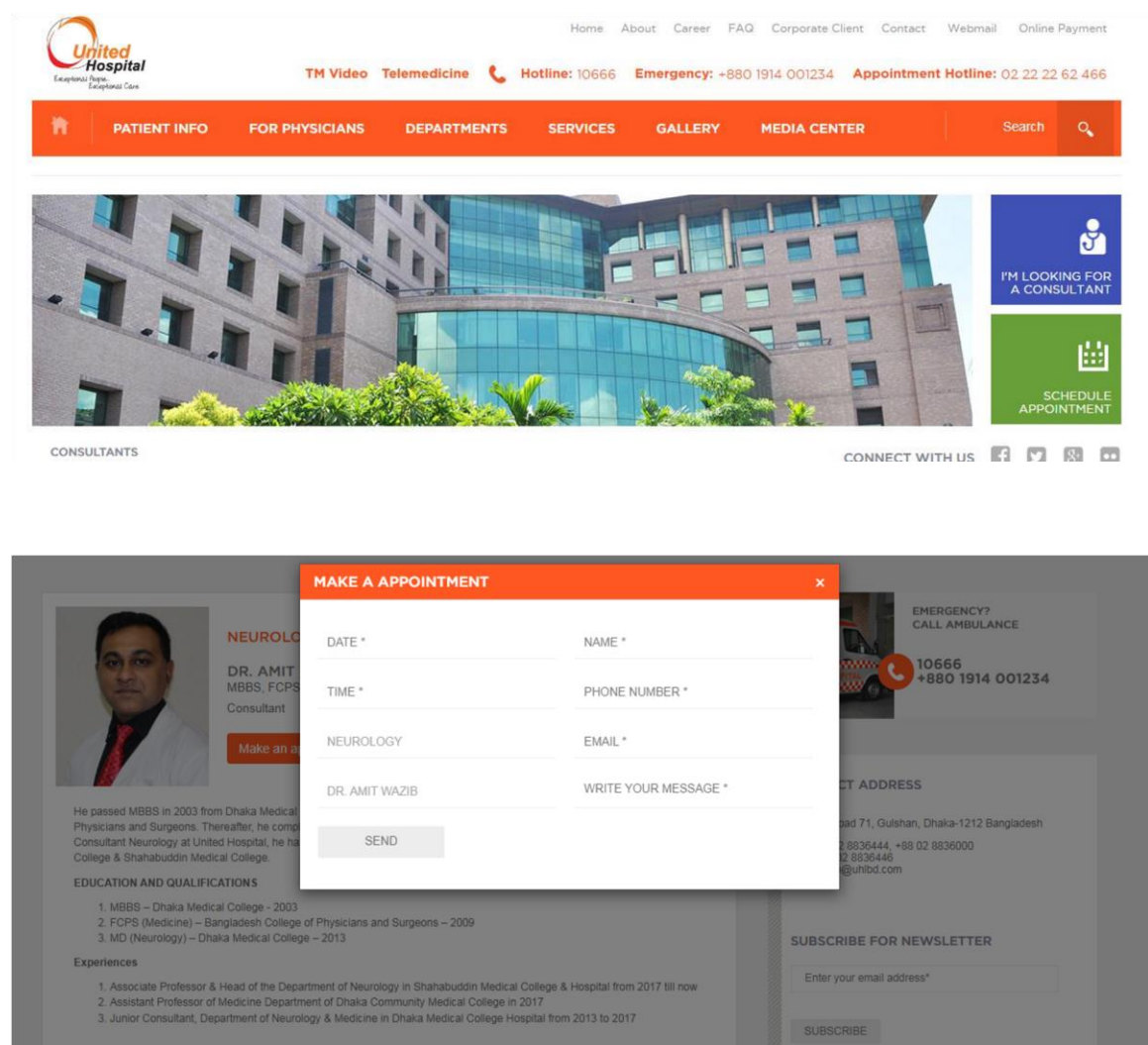


Figure 2.1: Appointment UI of United Hospital Bangladesh

2.3 Challenges of the Project

There are so many challenges in our project such as –

- Making an user friendly design for the user
- Ensuring the data security
- Maintaining the performance of the entire system
- Ensuring database connection & data passing form every individual
- Maintaining proper authorization
- Establishing proper
- Making the project responsive etc.

CHAPTER 3

REQUIRMENT SPECIFICATION

3.1 Application Process and Modeling

Process modeling is the use of graphical representations of business processes to help understand and manage them. A flowchart can be used to illustrate the steps involved in completing a task in a business environment. This diagram shows the steps involved in completing a project. It shows the different tasks that need to be completed, and the order in which they need to be completed. We also established use case diagram, E-R diagram, context diagram, block diagram and more.

3.2 Requirements Analysis

- User friendly by nature
- Good responsiveness
- Easy to access
- Smooth log in experience
- Easy accessibility for multiple platforms
- Nice user interface

3.3 Hardware and Software Requirements

Requirements of Hardware for our system –

- 2 GB storage for server configuration Good bandwidth for data transfer
- 4 GB RAM
- Computer (Desktop/Laptop)
- Smart device (Smartphone, Tablet)
- Good internet availability

Requirements of Software for our system-

- Windows / Linux as operating system
- Google Chrome and Other internet Browsers
- Visual Studio
- Microsoft SQL Server
- Online Visual paradigm

CHAPTER 4

SYSTEM DESIGN

4.1 Use Case Modeling

A Use Case Model is a graphical representation of the proposed functionality of a new system. A Use Case is a small set of instructions or requests that a user can make of a system in order to get it to do something. This interaction is a single unit of work that needs to be completed, such as creating an account or viewing account details.

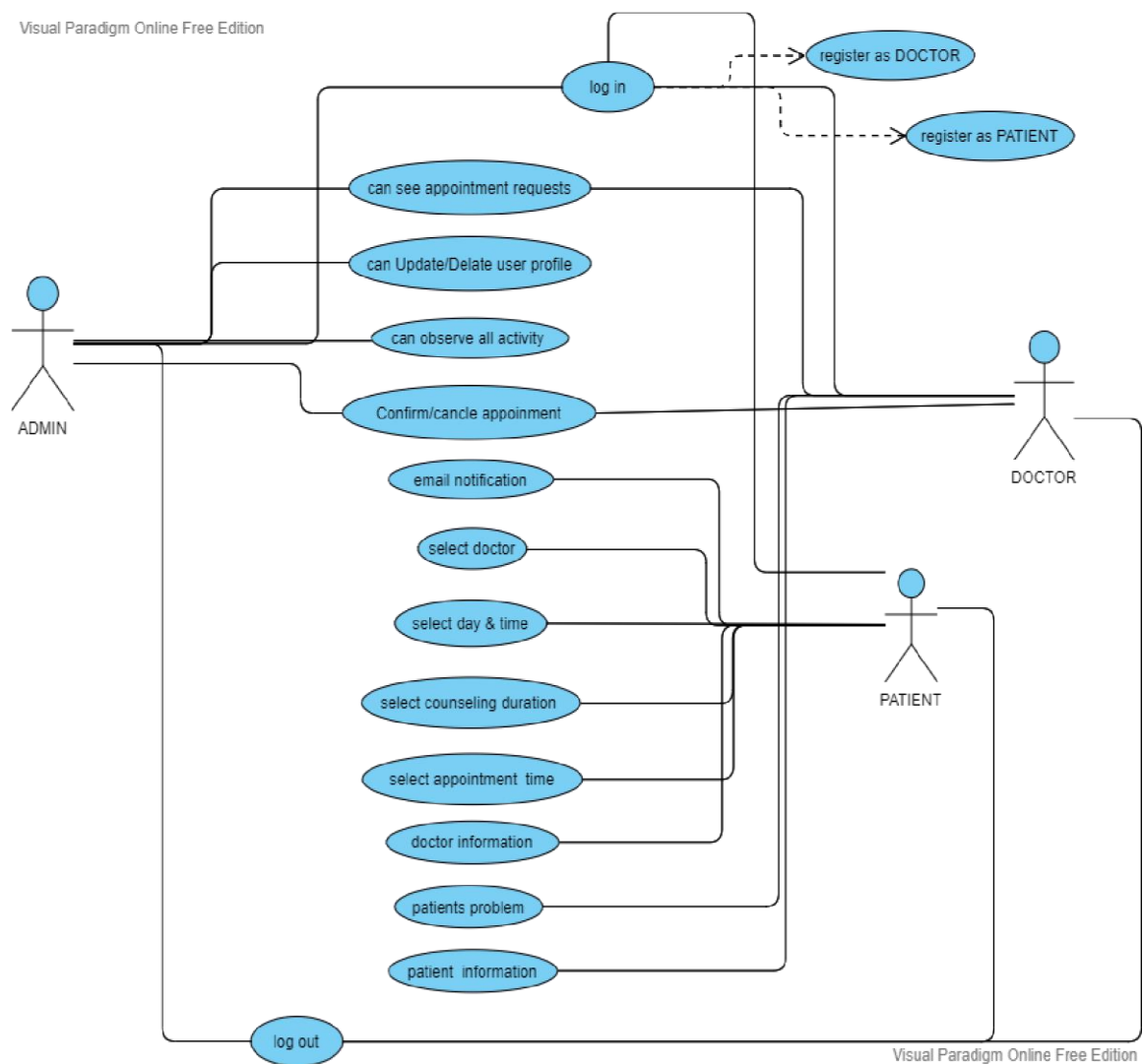


Figure 4.1.1: Use case model of the complete view of Medi Consulting

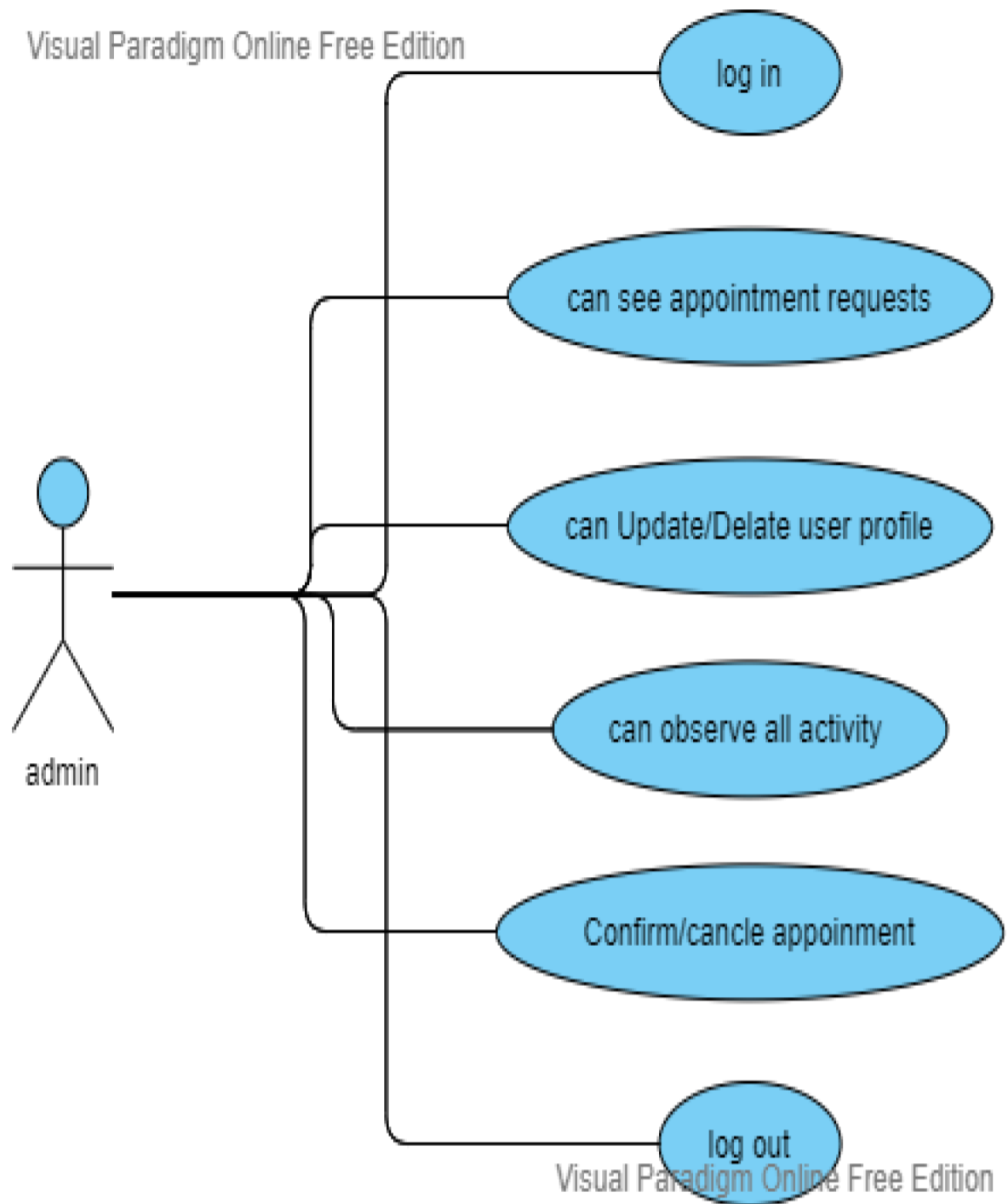


Figure 4.1.2: Use case model of the Admin access

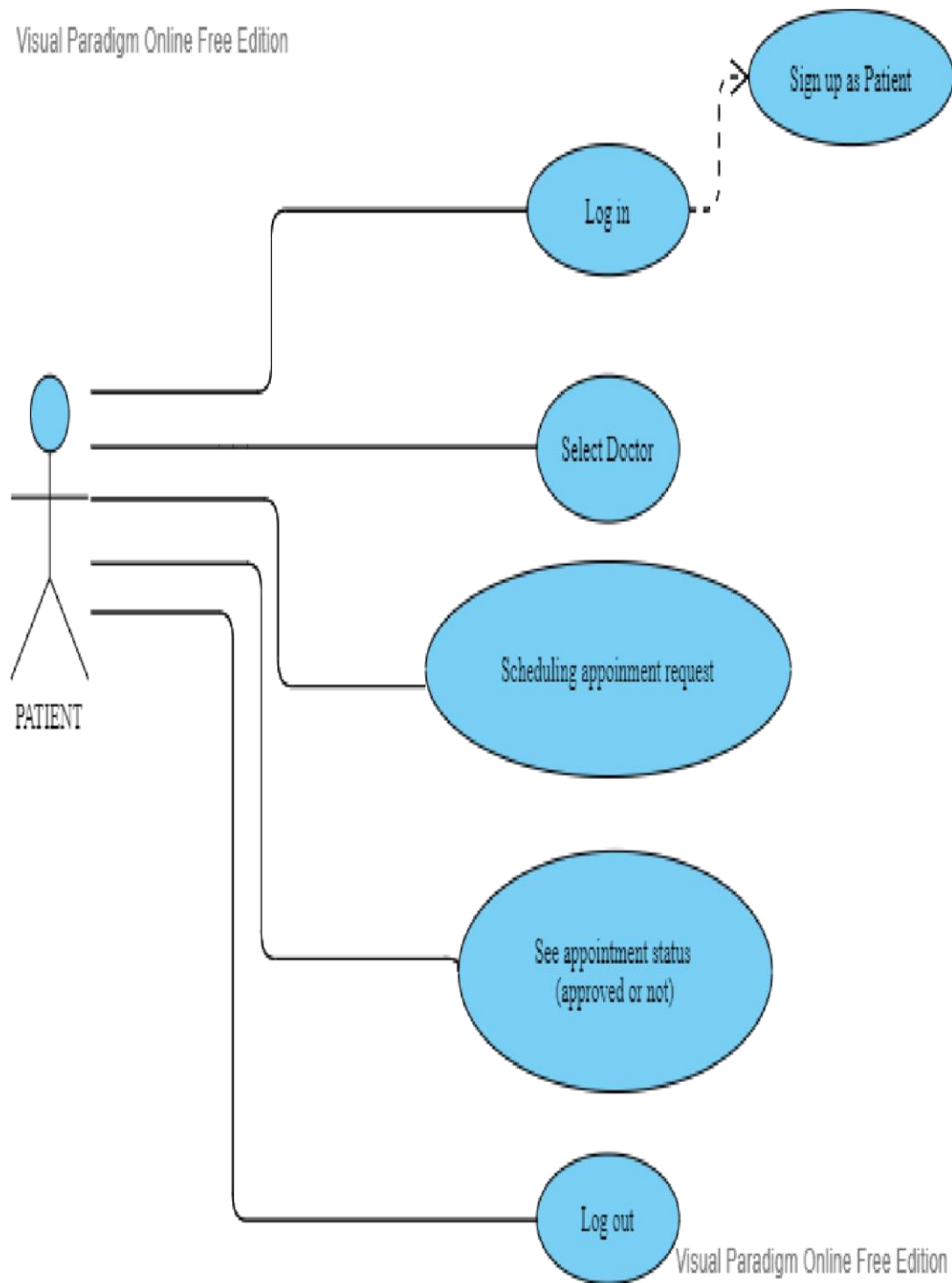


Figure 4.1.3: Use case model of the for Patients access

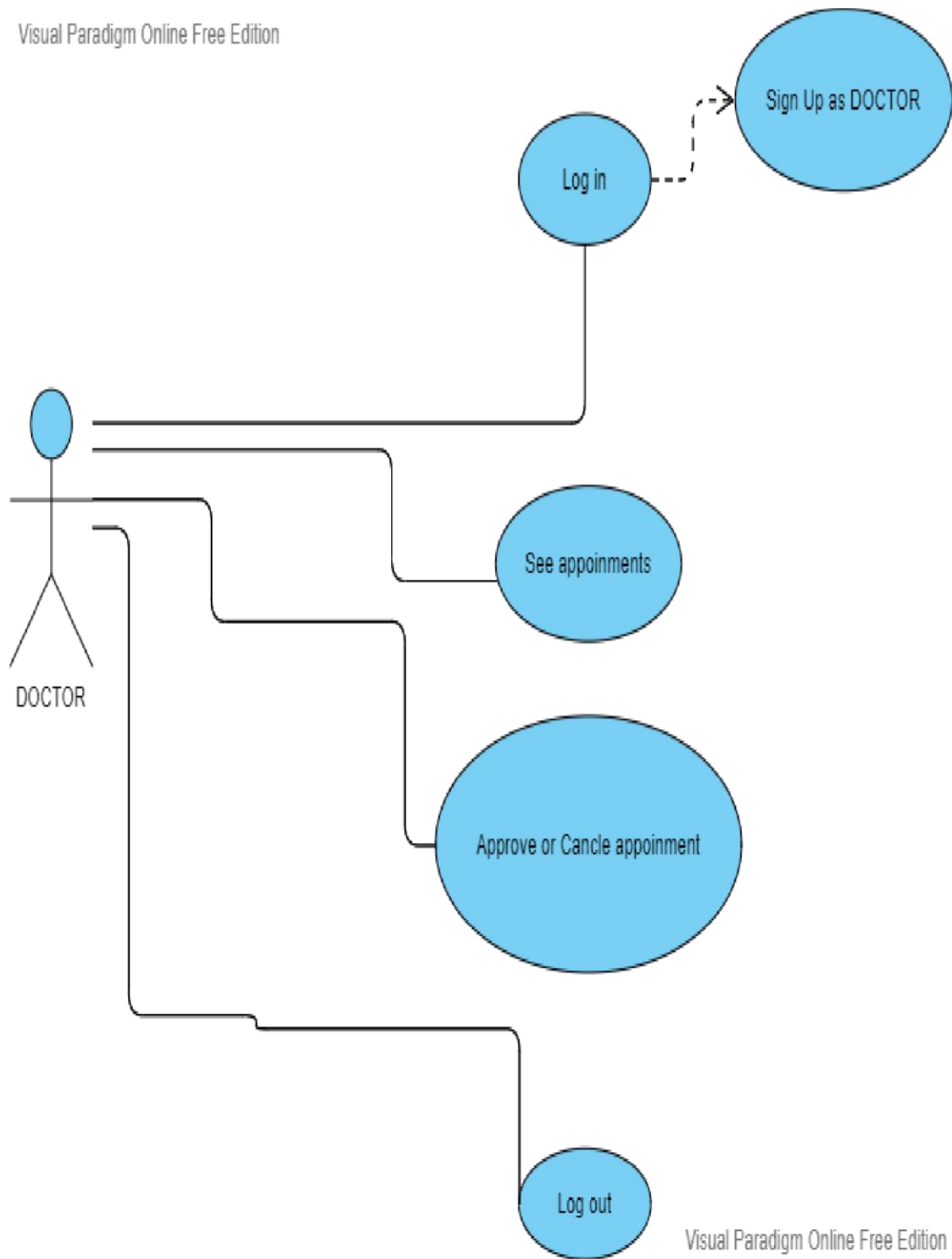


Figure 4.1.4: Use case model of the for Doctors access

4.2 System Context Diagram

A system context diagram (SCD) in engineering is a diagram that defines the boundaries between a system or part of a system and its environment and shows the devices that interact with it. The figure is an overview of the system. It looks like a block diagram.

We have designed a SCD for our system which is shown below –

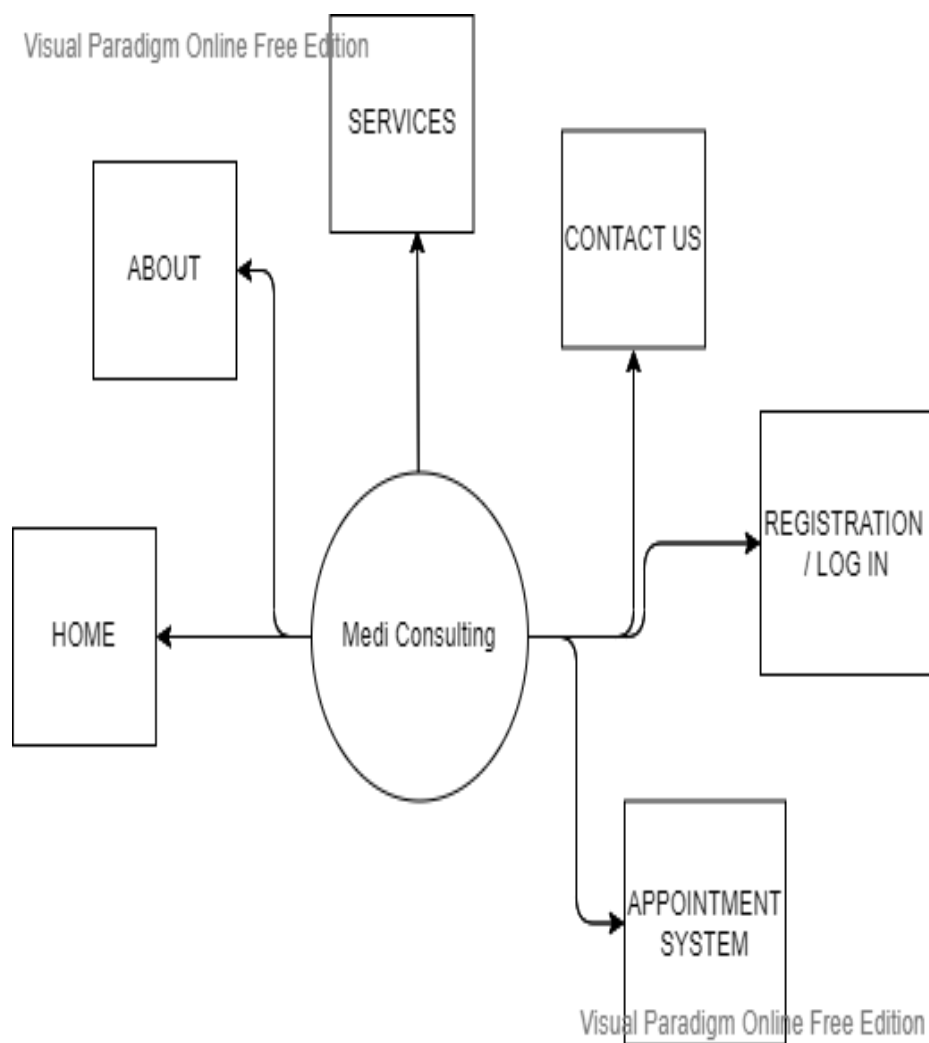


Figure 4.2.1: Context Diagram of Medi Consulting

4.3 Entity Relationship Diagram

Entity relationship diagram, also known as ERD diagrams, ER diagrams, or ER models, are flowcharts used in database design. The ERD contains symbols and links that represent two important data, the most important devices in the system and their relationship to each other.

The E-R models we used for our project are shown below –

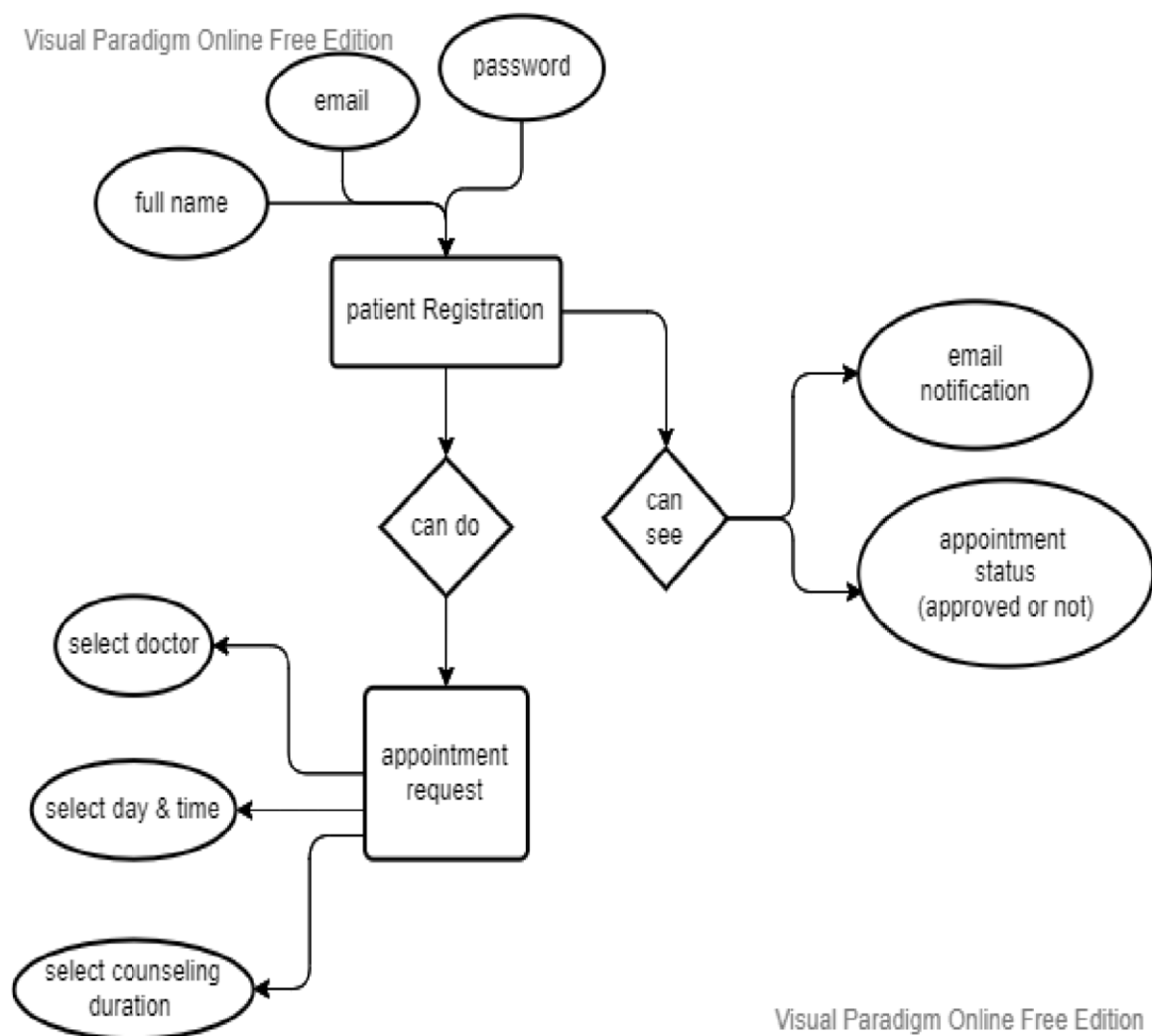


Figure 4.3.1: ER Diagram of Patient registration and access

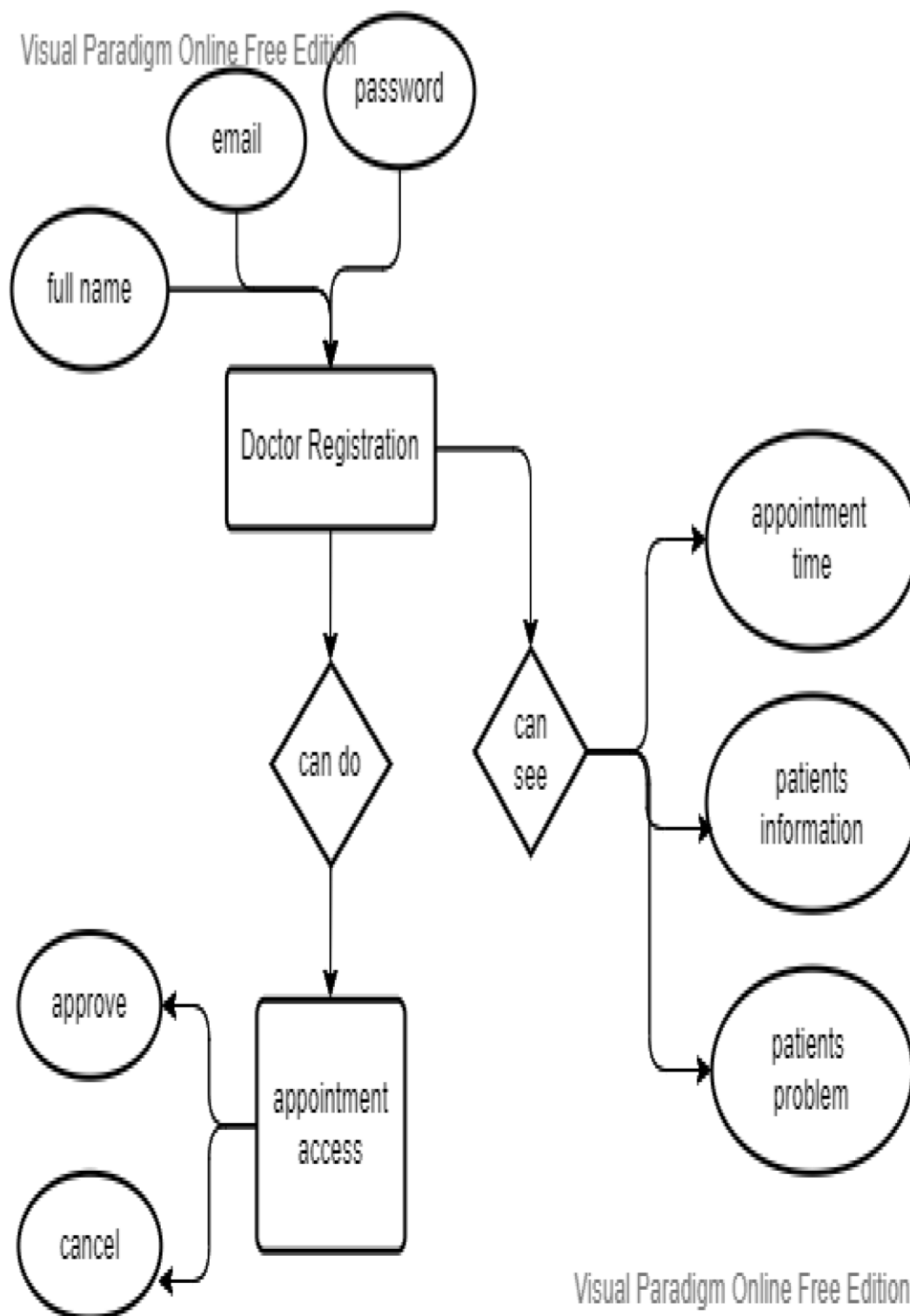


Figure 4.3.2: ER Diagram of Doctor registration and access

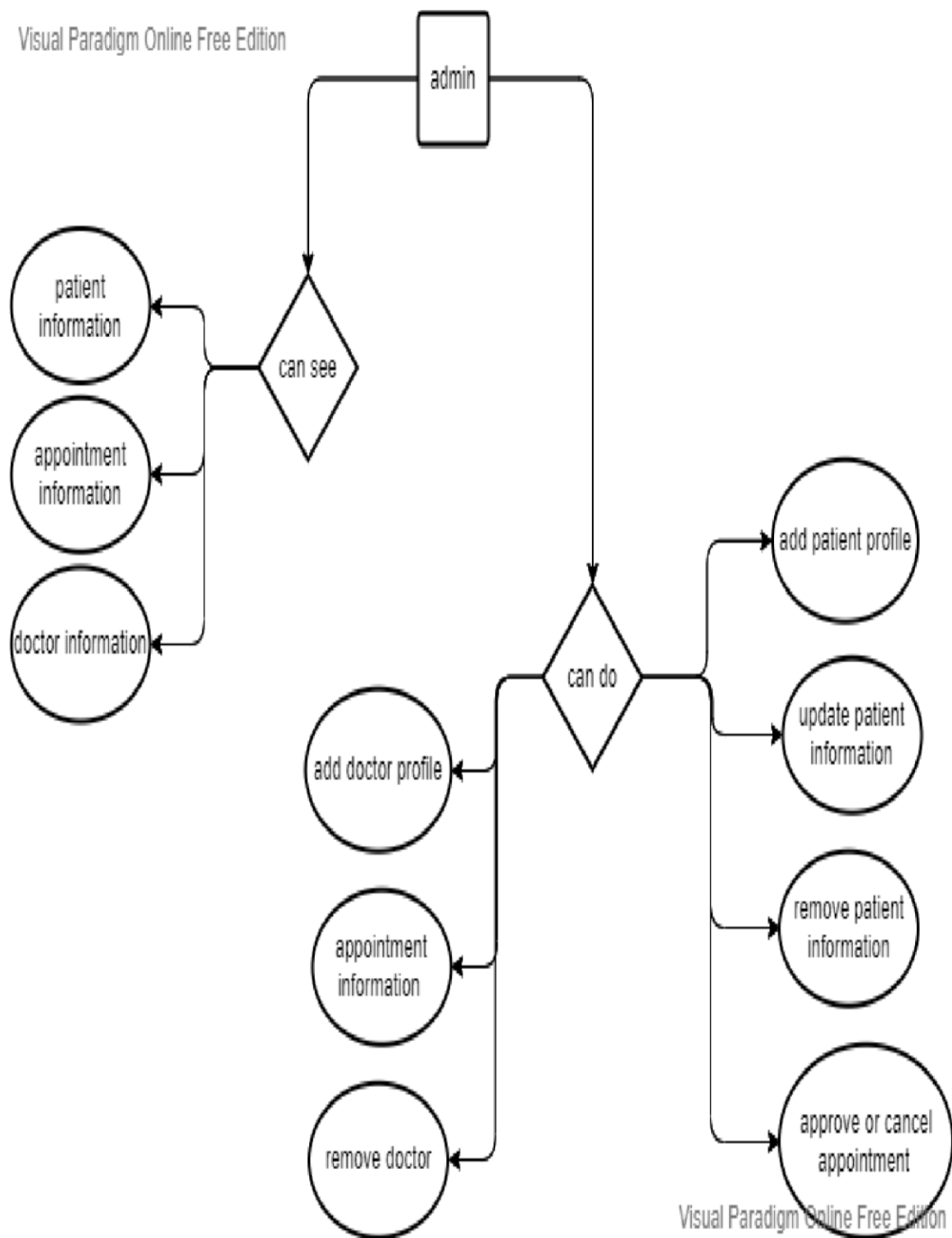


Figure 4.3.3: ER Diagram for Admin and their access

CHAPTER 5

DESIGN SPECIFICARION

5.1 Front-End Design:

Front-end development creates the graphical interface that users see and use on websites and web applications. A front-end developer creates websites and applications using web languages such as HTML, CSS, and JavaScript allowing users to access and interact with the site or application.

We have used the bellow mentioned languages for creating our project-

HTML : It addresses HyperText Markup Language. It is used to set up pages using a markup language.

Elements of HTML:

- It is easy to learn and easy to use.
- It is without a stage.
- Pictures, accounts, and sound can be added to a site page.
- Hypertext can be added to the message.
- It is a markup language.

CSS : CSS (Cascading Style Sheets) is a format language used for depicting the presentation of a chronicle written in a markup language like HTML.

CSS is an established development of the Internet, nearby HTML and JavaScript.

A piece of the potential gains of using CSS are-

- Easier to stay aware of and update.
- More conspicuous consistency in the plan.
- Extra orchestrating decisions.

- Lightweight code.
- Speedier download times.
- Site smoothing out benefits.
- The straightforwardness of acquainting different styles with different watchers.
- More conspicuous accessibility.

JavaScript : JavaScript is a stand-out P.C. programming language. It is lightweight and most regularly utilized as a piece of site pages, whose executions award client-side substance to interface with the client and make dynamic pages.

It is a deciphered programming language with object-coordinated limits.

- An object-centric content language. Object-centric languages emphasize that work is being done because Java content has window objects.
- Edge client development is light and delicate.
- Approve customer reviews.
- Other and Clarification
- IF. Referee centered.
- The ability to act within the confines of the structure.
- Exquisite case arrangement.

Bootstrap: It is a free and open-source CSS system coordinated with the first development of a flexible and responsive web front-end. It contains CSS and JavaScript based outline formats for typography, structure, buttons, orientation, and other connection point elements.

Appealing Features of Bootstrap

- It is fundamental, in any case.
- LESS as Well as CSS Documents. Bootstrap offers fewer reports as well as consolidates the old CSS records.
- Adjustable.
- Responsive Utility Classes.
- Portions of Bootstrap.
- Drop-Down Part Menu.
- Bootstrap Layouts.

Visual Studio: Microsoft Visual Studio is a planned progression environment (IDE) from Microsoft. It is used to cultivate PC projects and destinations, web applications, web organizations, and adaptable applications. Visual Studio uses Microsoft programming improvement stages, for instance, Windows Programming connection point, Windows Designs, Windows Show Foundation, Windows Store, and Microsoft Silverlight. It can convey both neighborhood codes and directed codes.

Visual Studio consolidates a code manager supporting IntelliSense (the code realization part) and code refactoring. The planned debugger works both as a source-level debugger and a machine-level debugger. Other understood gadgets integrate a code profiler, fashioner for building GUI applications, site trained professional, class originator, and informational collection design designer. It recognizes modules that develop the helpfulness at essentially every level — including adding support for source control structures (like Interruption and Git) and adding new toolsets like editors and visual organizers for space unequivocal vernaculars or toolsets for various pieces of the item headway lifecycle (like the Purplish blue DevOps client: Gathering Voyager).

Visual Studio maintains 36 different programming vernaculars and licenses the code boss and debugger to serve (to moving degrees) practically any programming language, considering that language-unequivocal help exists. Basic lingos consolidate C,[6] C++, C++/CLI, Visual Crucial .NET, C#, F#,[7] JavaScript, TypeScript, XML, XSLT, HTML, and CSS. Support for various tongues like Python,[8] Ruby, Node.js, and M are available by using modules. Java (and J#) were maintained previously.

The most fundamental adaptation of Visual Studio, the Neighborhood, is available in vain. The Visual Studio Social class discharge brand name is "Free, totally included IDE for students, open-source and individual planners."

Beginning around 8 November 2021, the Visual Studio variation's continuous creation was 2022, with additional carefully prepared transformations like 2013 and 2015 on Expanded Help and 2017 and 2019 on Standard Assistance.

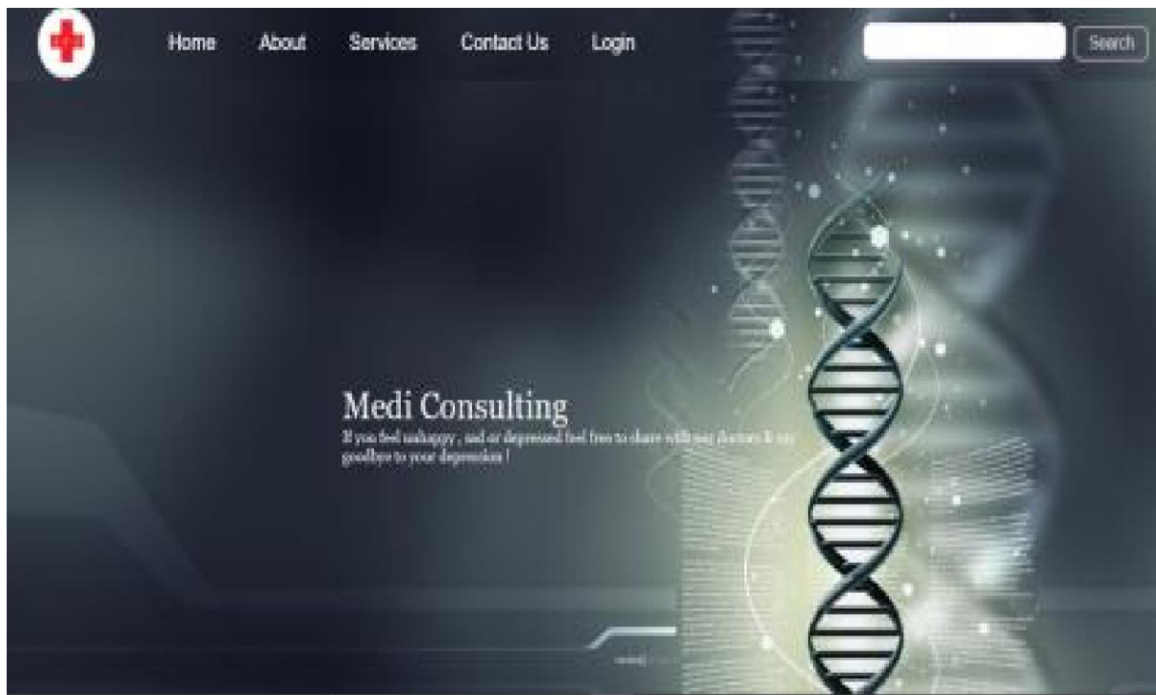


Figure 5.1.1: Home Page

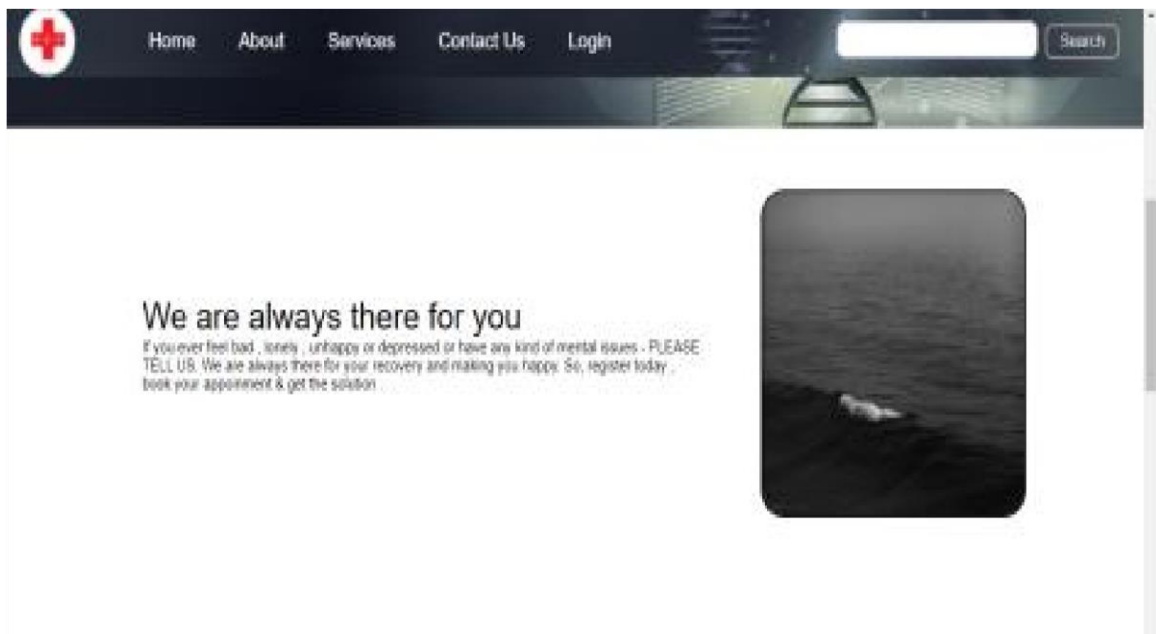


Figure 5.1.2: Home Page

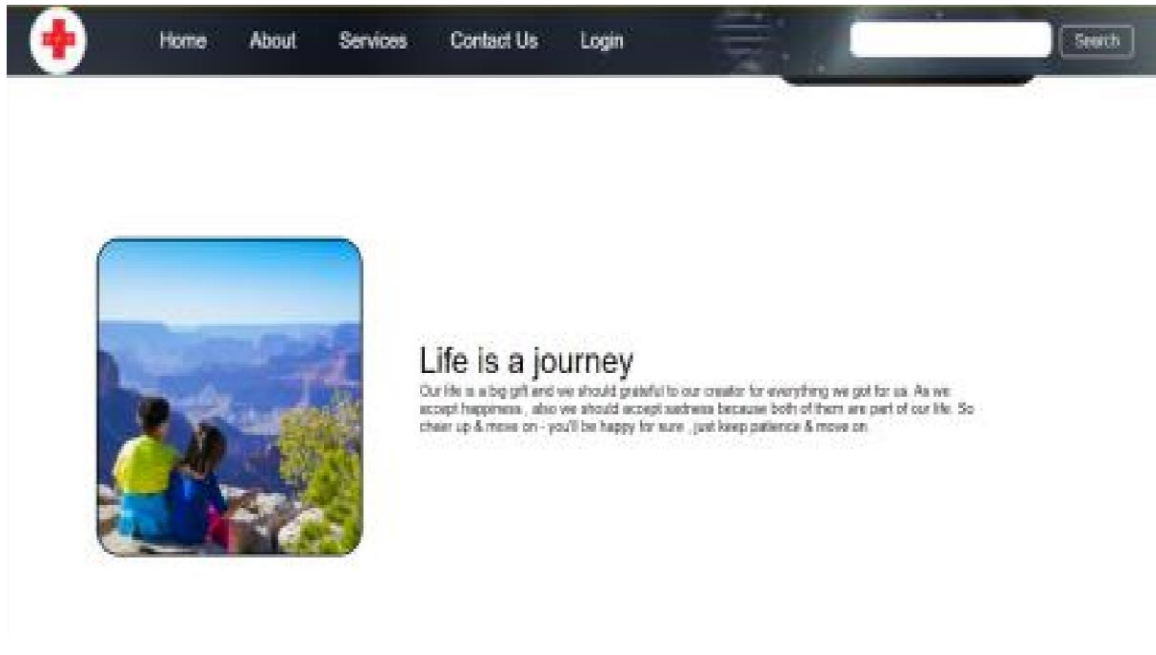


Figure 5.1.3: Home Page

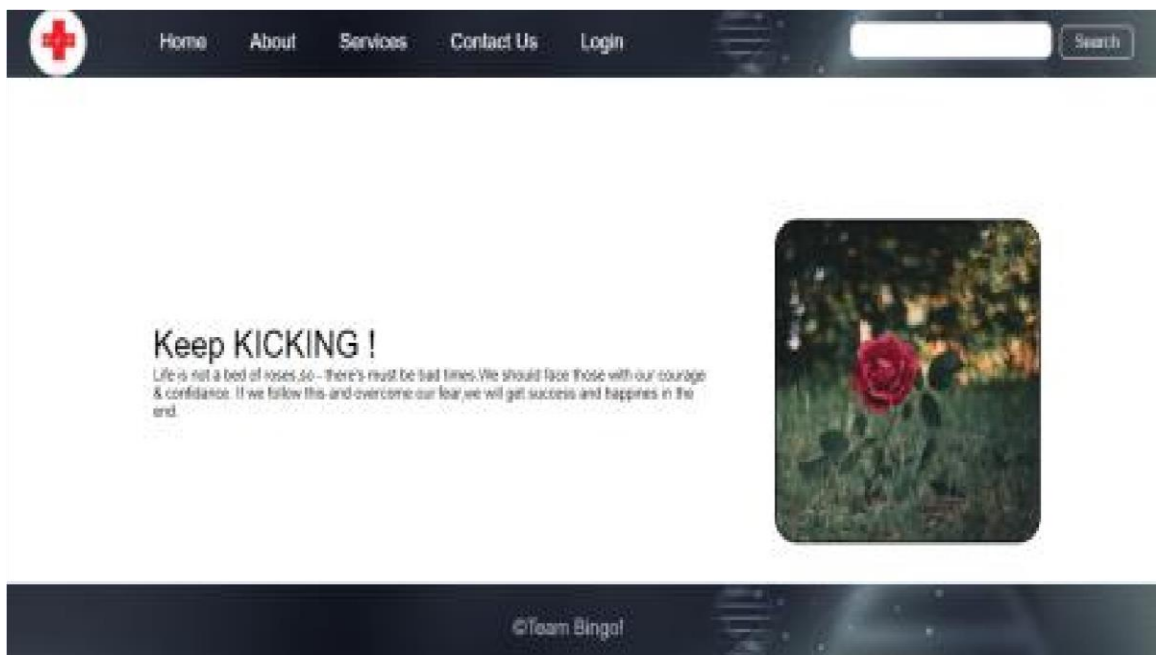


Figure 5.1.4: Home Page

We serve for you and
your betterment is
our vision

Come, Share your problems with us
And say Good bye depression...

<p>David Ali</p> <p>I've found Myself</p> <p>Sep 12</p> <p>I was extremely depressed & very unhappy. Somehow I've visited this website & take two sessions from doctor. It was very effective for me & I'm much better and happier also. Huge shoutout for Medi Consulting,</p>		<p>Prerayanka</p> <p>It was like a Reborn</p> <p>May 19</p> <p>I might not in this world if I did not visited this website. It was a great experience all together. I am really grateful to the entire team and specially to the doctor who gave me the perfect counselling & treatment. Continue</p>	
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Figure 5.1.5: About Page

Symptoms of Depression

January 1, 2021 by [Mark](#)

A major depressive episode is defined as experiencing five or more of the following symptoms every day (or most days) for two weeks or more: Depressed or irritable mood; Sleep problems (i.e., sleeping too much or too little; sleeping mainly during the day); Change in interests (i.e., not being interested in what you used to enjoy) or low motivation; Excessive guilt or unrealistically low self-image.

Significantly low energy and/or change in self-care (i.e., not showering anymore); Significantly worse concentration (i.e., sharp decline in grades or performance); Changes in appetite (i.e., eating too much or too little); Agitation or severe anxiety/panic attacks; Suicidal thoughts, plans or behaviors — including self-harm (i.e., intentionally cutting or burning yourself).

Stay in the present

This practice is sometimes called mindfulness. As best you can, during activities try not to be in your head with self-judgment. You may not be able to turn off the self-judgment, but you can notice it and bring yourself gently back to the present. Research shows that people with higher self-compassion also have higher self-worth or self-confidence.

A major depressive episode is defined as experiencing five or more of the following symptoms every day (or most days) for two weeks or more: Depressed or irritable mood; Sleep problems (i.e., sleeping too much or too little; sleeping mainly during the day); Change in interests (i.e., not being interested in what you used to enjoy) or low motivation; Excessive guilt or unrealistically low self-image.

NEVER GIVE UP

Arise, awake, and stop not till the goal is reached.

REMEMBER

Change the world by being yourself
Every moment is a fresh beginning
Die with memories, not dreams
Whatever you do, do it well
Tough times never last but tough people do
Problems are not stop signs, they are guidelines
Determine your priorities and focus on them
Be so good they can't ignore you
Never let your emotions overpower your intelligence
Don't you know your imperfections is a blessing?

Figure 5.1.6: About Page

Exercise And eat right too !

Doing moderate exercise about five times a week (30 minutes a pop) can dramatically help your mood. Moderate exercise is a level of activity where it is difficult to sing from your diaphragm while doing it. Also pay attention to how the type of food or drink you're eating influences your mood. You don't have to do fad diets, but anyone will be depressed if they frequently binge on carbs, junk food, and energy drinks. Remember the virtue of moderation.

Sleep Regularly: Try to keep a regular sleep schedule.

Keep a balance with not too little and not too much sleep. Staying up late one night and then sleeping in excessively the next day is a sure-fire way to feed depression. Also, don't try to solve problems late at night when your brain is half-asleep.

Example code block

This is some additional paragraph placeholder content. It's a slightly shorter version of the other highly repetitive body text used throughout.

Give time to you

December 23, 2020 by Jacob

You should give time to yourself & that will help a lot. Most of the time we live for others, give times to others but not to ourselves. So, from this moment try to have some time for yourself.

NEVER GIVE UP

Arise, awake, and stop not till the goal is reached.

REMEMBER

Change the world by being yourself
Every moment is a fresh beginning
Die with memories, not dreams
Whatever you do, do it well
Tough times never last but tough people do
Problems are not stop signs, they are guidelines
Determine your priorities and focus on them
Be so good they can't ignore you
Never let your emotions overpower your intelligence

Figure 5.1.7: About Page

too much or too little; sleeping mainly during the day) Change in interests (i.e., not being interested in what you used to enjoy) or low motivation Excessive guilt or unrealistically low self-image.

Some good words for YOU

- "The purpose of our lives is to be happy." — Dalai Lama
- "You only live once, but if you do it right, once is enough." — Mae West
- "Your time is limited, so don't waste it living someone else's life. Don't be trapped by dogma — which is living with the results of other people's thinking." — Steve Jobs

You can follow the mentioned tips too -

1. Stay away from negative people
2. Don't stay there if they don't respect you
3. Be honest

The following things can help you too-

Visit new places

visiting new places will refresh your mind and this is a great scope for you to give some times to yourself.

Find a hobby for you

Make a hobby such as gardening/cycling/gym/reading book or something that you like most.

LISTEN MUSIC

MUSIC will heal your mental strength, will help you to relief from stress. Also it will help you to feel better.

NEVER GIVE UP

Arise, awake, and stop not till the goal is reached.

REMEMBER

Change the world by being yourself
Every moment is a fresh beginning
Die with memories, not dreams
Whatever you do, do it well
Tough times never last but tough people do
Problems are not stop signs, they are guidelines
Determine your priorities and focus on them
Be so good they can't ignore you
Never let your emotions overpower your intelligence
Don't you know your imperfections is a blessing?
There is no substitute for hard work

Figure 5.1.8: About Page

Patients Feedback

The following table represents the patients who took support from us and their recovery status

Month	Participant	Recovered
July	19	18
August	15	15
September	22	19
October	27	27

So, be a part of our family and live your life !!

NEVER GIVE UP

Arise, awake, and stop not till the goal is reached.

REMEMBER

Change the world by being yourself
Every moment is a fresh beginning
Die with memories, not dreams
Whatever you do, do it well
Tough times never last but tough people do

Figure 5.1.9: About Page

September	22	19
October	27	27

So, be a part of our family and live your life !!

DON'T DIE'

Words from Scientist

Please think again before you die.. Some bad memories, some struggles, some pains, some betrays are not more important than your LIFE. It is the most valuable thing you have. You can't finish your journey until you reach your goal, you have no rights to destroy your life because there are so many things to do. Please don't make cry for you or don't make anyone unhappy for your act. Even, if you want to take revenge, then BE SUCCESSFUL, because - 'SUCCESS IS THE BEST REVENGE'. So, take a deep breath, keep moving and never lose hope. Remember in the end - you'll be victorious.'

- RESPECT YOURSELF
- BELIEVE in YOURSELF
- Keep working, stay honest

So, from now - BE THE BEST VERSION of YOURSELF...Love yourself, Respect yourself.

REMEMBER

Change the world by being yourself
Every moment is a fresh beginning
Die with memories, not dreams
Whatever you do, do it well
Tough times never last but tough people do
Problems are not stop signs, they are guidelines
Determine your priorities and focus on them
Be so good they can't ignore you
Never let your emotions overpower your intelligence
Don't you know your imperfections is a blessing?
There is no substitute for hard work
A happy soul is the best shield for a cruel world

Figure 5.1.10: About Page

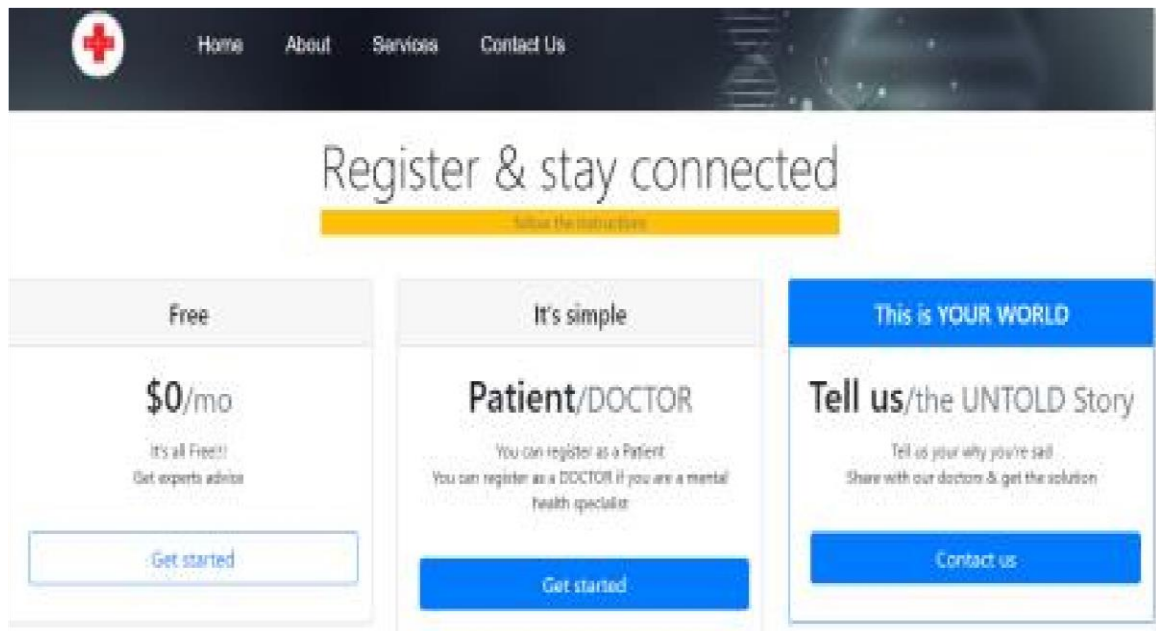


Figure 5.1.11: Service Page



Figure 5.1.12: Service Page

Home Register Sign In

Sign Up

Create a new account.

Name

Email

Password

Confirm Password

Role Name

[Register](#)

[Sign In](#)

Figure 5.1.13: Sign Up page for Patient

Home Register Sign In

Sign Up

Create a new account.

Name

Email

Password

Confirm Password

Role Name

[Register](#)

[Sign In](#)

Figure 5.1.14: Sign Up page for Doctor

5.2 Back-End Design:

Back-end development refers to everything that communicates between the server side of the application and the database and browser. Server-side development is the process of creating and maintaining the site's backend.

ASP.NET Core: ASP.NET is a notable web-progression framework for building web applications on the .NET stage.

ASP.NET core is the open-source variation of ASP.NET that unexpectedly spiked popular for macOS, Linux, and Windows. ASP.NET Core was first conveyed in 2016 and is a rethink of earlier Windows-only variations of ASP.NET.

Execution is a critical focal point of ASP.NET Core. It is quicker than other famous web structures in the autonomous Tech Empower benchmarks.

ASP.NET Core is intended to permit runtime parts, APIs, compilers, and dialects to advance rapidly while giving a steady and upheld stage to keep applications running.

Various adaptations of ASP.NET Core can exist next to each other on a similar server. One application can take on the most recent form while other applications continue to run on the variant they were tried on.

ASP.NET Core offers different help lifecycle choices to address the issues of your application. You can pick a drawn-out help delivery or run with the most recent delivery on the off chance that you resolve to redesign more regularly.

Microsoft Asp.Net Framework is a, by and large, elaborate headway structure for building adventure-level web applications that the current computer programmers select to use. The Asp.Net framework is a significantly popular one and is decently essential for the .Net creators to make persuading Asp.net applications by using Visual Studio. It is not confined to setting up lingos, and it licenses you to use .NET vernaculars like C#, J#, V.B., etc.

There are many benefits to using Asp.Net core. The following are a piece of the potential gains of using ASP.NET-

1. Asp.Net is essentially server-side advancement, so the code is taken care of on the windows server before being displayed in the web program. Appropriately, ASP.net applications execute more quickly than interpreted contents.
2. ASP.Net highlights early restricting, JIT aggregation, storing administrations, and local streamlining supports to get a high degree of execution. With .NET, you are not restricted to JIT but rather have the choice of AOT to dispose of startup delays.
3. Asp.Net system is language free, which implies you can pick any programming language (C#, J#, V.B., and so on) that the most appropriate to your application.
4. The Normal Language Particular information types altogether .Net applications are comparative, so no Sort transformation is vital when calling.Net strategies, C++, C# from Visual Essential, or The other way around.
5. ASP.NET offers full help for XML, CSS, and other new and laid out web guidelines.
6. Presentation of view state helps keep up with the condition of the controls naturally between the post backs occasions.
7. With the underlying arrangement data, Asp.Net is not difficult to convey. There is a compelling reason to enlist parts because of the implicit setup data.
8. At last, Asp.Net decreases the line of code expected to foster enormous applications.

API: API is a software intermediary that acts as a communication link between computer systems, allowing them to access, interact, and extract a company's data and functions.

Let's start by addressing the advantages of APIs.

1. Increments efficiency: As the interest in current programming keeps rising, ventures are searching for fast approaches to prototyping and making new items.

Assuming designers invest their vital energy in developing applications starting from the earliest stage, a comparative arrangement is uncovered as a Programming interface; it can adversely influence your venture's efficiency.

APIs offer a vital instrument for quicker advancement. With APIs, engineers can rapidly carry out current usefulness instead of making arrangements without any preparation.

For instance, Microsoft gives a Message Examination Programming interface that allows you to perform different message investigation undertakings, like language location, key expression extraction, and opinion examination. With such a Programming interface, you can use best-in-class solid advancements and incorporate them into your applications. This can save time and upgrade your undertaking's efficiency, empowering you to acknowledge business objectives quicker.

As indicated by a new report, endeavors that utilized APIs kept a colossal expansion in the efficiency of 59% across a few significant components of their organizations.

2. Saves costs: The expenses of building an application vary contingent upon a few elements, including the task's intricacy, the sort of innovation utilized, and engineers' skill. As indicated by one overview, creating and conveying an application costs \$270,000. Cost of creating and sending an application probably the best advantage of

APIs for organizations is the capacity to save costs. Since APIs fundamentally diminish the improvement exertion, utilizing them to make applications is an extraordinary approach to decreasing expenses.

With APIs, engineers can get a large portion of the usefulness they need to make applications from somewhere else - without the need to begin without any preparation. Rather than investing their valuable assets and energy in wasting time, they can utilize savvy APIs from outsider suppliers or their own inward APIs. Consuming APIs liberates engineers to focus on refining the one-of-a-kind abilities of their applications quicker, which helps ventures set aside assets and cash.

3. Further develops network and cooperation: Private or interior APIs can further develop joint effort and correspondence inside a venture. APIs' center usefulness is

network — they empower various frameworks, applications, and stages to associate and impart information to each other and perform fluctuated capacities. In the mid-1990s, the typical organization utilized a pitiful 5 to 10 unique applications. Quick forward to the present time, it's assessed that the typical organization runs around 464 custom applications. New applications penetrate associations at unprecedented rates; it prompts unique and siloed conditions that hamper correspondence and network.

Many ventures end up with incoherent frameworks that can't share information and functionalities easily. APIs go about as the paste that empowers these generally separated programming arrangements - like those for client relationships, the executives (CRM), showcasing robotization, and monetary administrations - to adhere to one another and cooperate easily.

This better network and coordinated effort make interoperable parts that smooth out activities and assist undertakings with conveying their ideal functionalities without bottlenecks. Moreover, APIs are of incredible advantage when an application is sent utilizing the micro services design; that is, the application is worked as a setup of minor, approximately coupled parts that speak with one another through APIs.

4. Empowers development: One more essential advantage of APIs is that they empower endeavors to supercharge advancement. In the present computerized age, like never before, advancement assumes a massive part in the outcome of associations.

Undertakings that don't reliably acquaint new items with life up to the steadily changing clients' assumptions and developing mechanical patterns are abandoned. Truth be told, it's assessed that 56% of clients endeavor to make buys from the most innovative organizations.

APIs are perfect for driving disturbance and development. By utilizing APIs, endeavors can execute state-of-the-art advances with fewer assets, adjust to client necessities quickly, and open up new roads for development. APIs are advantageous in permitting ventures to cement their intensity, separation, and productivity.

As per the previously mentioned Report, ventures that incorporated APIs kept an ascent in advancement by 51%. Gartner asserts that APIs are significant in lessening the grating as a rule brought about by a bimodal I.T. technique; that is, where heritage frameworks (Mode 1) are run close by adaptable, inventive arrangements and approaches (Mode 2).

APIs can go about as the interfacing layer that considers more intelligent cooperation of the two modes, prompting the arrangement of imagination and including rich applications. You can immaculately separate worth from heritage information sources and upgrade your ongoing frameworks' abilities with APIs.

5. Upgrades client experience: By utilizing APIs' abilities, undertakings can make new and successful approaches to associating with clients, particularly in the advanced age when customers request first-rate encounters.

Principally, the present clients are keen on customized encounters — instead of one-size-fits-all business arrangements. Gartner reports that organizations that carry out customized informing around helping clients can expect a 16% increment in business results than those that don't.

Associations that uncover their information and administrations through APIs can engage their API purchasers to assume command over their client encounters — prompting vast conceivable outcomes. These connection points empower buyers to take a driver's seat and find the shortcomings in the client venture.

With APIs, engineers can make arrangements that meet explicit client assumptions, which could be challenging to accomplish without them. For instance, many brands use APIs to convey inventive computerized reasoning and prescient investigation innovation that dissects a purchaser's fascinating excursion and suggests the "following conceivable activity." This further develops the customer's shopping experience and yields more deals.

6. Further develops advertising: Uncovering APIs empower endeavors to supercharge their showcasing endeavors. They permit them to extend their scope and enter new market boondocks that, in any case, could never have been fronted. Most ventures have understood that a conventional way to deal with I.T. can't allow them to understand the development they need. Contingent on your organization's capacities

may not empower you to advertise your administration with the forcefulness expected in the advanced time.

7. Associations don't have limitless assets: No association can flaunt a lock on the most intelligent thoughts. Subsequently, they are taking advantage of the bigger universe of designers to extend their market reach, which could be hard to accomplish either due to the absence of mindfulness or lacking assets.

For instance, IBM delivered the Watson Programming interface to permit engineers to exploit its best-in-class simulated intelligence innovation and carry it out in different use cases.

Therefore, IBM has excited many outsiders and extended its span to a broad scope of businesses, including travel, shopping, and clinical consideration. Besides, internal APIs can extraordinarily diminish an opportunity to showcase new items and administrations.

Since APIs improve availability and cooperation, as discussed above, they make exceptional items in a more limited time, which guarantees the items arrive at the end clients quicker. Private APIs likewise empower more viable distributing of inside assets.

This takes into consideration the quicker advancement of new, interoperable highlights.

For instance, with APIs, one group can chip away at the installments highlight, one more on the login include, etc. You don't need to restrict your whole engineer group to chip away at a solitary thing, each in turn. As per one review, around 34% of the overviewed firms use APIs to speed up to-showcase.

8 Gathers information for knowledge examination: Information in the twenty-first century is like oil in the eighteenth century: a tremendously important unexploited asset. Like oil, undertakings that perceive information's gigantic convenience and concentrate it can understand huge prizes.

Today, information is a fundamental resource that drives the computerized economy. Assuming that endeavors hardly treat APIs, they can give a speedy and straightforward approach to mining esteem from the information. By making APIs and delivering them to people in general, you can screen and dissect how outsider designers are utilizing them.

This permits you to get helpful experiences in how shoppers associate your items.

With the obtained knowledge investigation, you can more readily comprehend your objective market, recognize vulnerable regions in your business tasks, and develop your center items further. For instance, Google gives an imaginative A.I. Programming interface that lets outsider engineers add super-advanced artificial intelligence expectation abilities into their applications. Since each datum guide sent toward the Programming interface is put away on its servers, Google utilizes lots of the clientproduced information to upgrade its manufactured intelligence models' presentation.

9. Sets out new income open doors: One more significance of APIs to your endeavor is that they set out new income open doors. By adopting APIs, you can unwind your advanced assets' worth and find better approaches for extending business development. If you uncover functionalities utilizing a Programming interface, you can charge clients (or utilize an income sharing recipe to pay them) for consuming it. It's what you want to mine your administrations and information for the gold and increment your association's benefits.

Like the Web permitted organizations to extend their span past the conventional physical areas, APIs engage present-day organizations to reach new levels and change their advanced resources into new revenue sources. It's nothing unexpected that some well-known tech organizations have fabricated their organizations around making and selling Programming interface calls. For instance,

Stripe, which gives installment APIs, is esteemed at around \$36 billion, and Twilio, which gives correspondence APIs, is esteemed at around \$40 billion.

10. Constructs new item capacities: Wrapping up your association's functionalities and uncovering them as a Programming interface can be a tempting proposal for outer engineers to make applications on top of them. Aside from building more grounded business organizations, this considers making more specialty includes that might not have been at first imagined.

For instance, it offers a cloud cooperation Programming interface that empowers outsider engineers to make content augmentations that the organization wouldn't have in any case constructed. The new elements, for example, stage clear informing notices and agendas for assignments and upgrade Trello's abilities past its essential contributions. Moreover, APIs are perfect for keeping up with item importance, particularly in this age when innovation is progressing at high speed. For instance, eBay gives an online business Programming interface that lets outer designers make more tight encounters on its shopping stage. Clients can partake in a superior shopping experience, and eBay can stay important while accessing more verticals.

Microsoft SQL Server 2019: Since OS / 2 1.1, SQL Server has proven time and time again that it is the database that data professionals like to use. With each release, SQL Server improves performance, functionality, reliability, and security.

The new SQL Server 2019 big data set uses Cabernets as a deployment platform, adding the power of the Spark and Apache Hardtop & # In addition, SQL Server 2019 supports data virtualization and workloads with drop-down applications running on-premises, in the cloud, and even in hybrid configurations.

Like previous versions, SQL Server 2019 is not limited to the Windows platform. In addition to SQL Server 2019 on Windows, Linux and containers, Microsoft Add a selection for this Platform selection and programming language, such as T-SQL, Java, C / C# .

SQL Server 2019 supports machine learning and extensibility with R, Python, Java, and Microsoft .NET. It can enable machine learning models that are close to data, and developers can use Java and other languages on the server side.

Sign In

Use your registered email id and password to login.

Email

Password

Remember me?

[Sign Up](#)

Figure 5.2.1: User Login

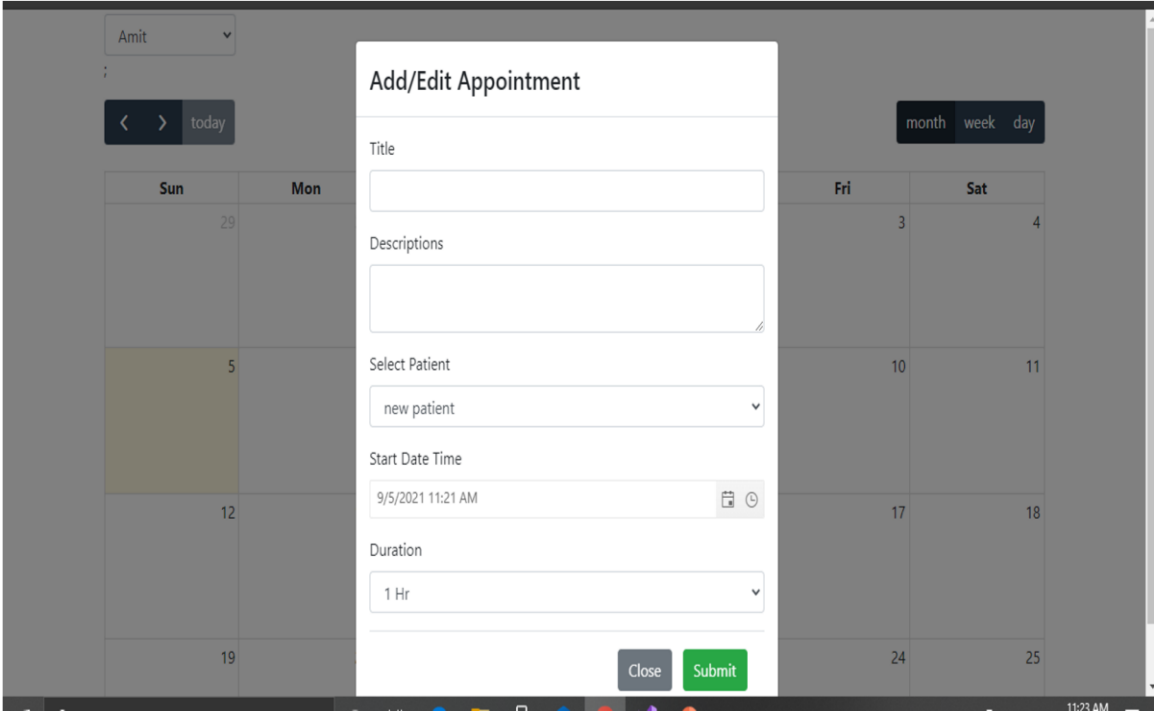


Figure 5.2.2: Making an Appointment

< > today

November 2021

month week day

Sun	Mon	Tue	Wed	Thu	Fri	Sat
31	1	2	3	4	5	6
8:50p Mon kharap 2						
7	8	9	10	11	12	13
		10:27p Sick			4p sadness	

Figure 5.2.3: Calendar of appointment for user

◀ ▶ today		October 2021					month week day	
Sun	Mon	Tue	Wed	Thu	Fri	Sat		
26	27	28	29	30	1	2		
3	4	5	6	7	8	9		
10	11	12	13	14	15	16		
17	18	19	20	21	22	23		

Figure 5.2.4: Calendar for booking appointment

CHAPTER 6

IMPLEMENTATION AND TESTING

6.1 Definition

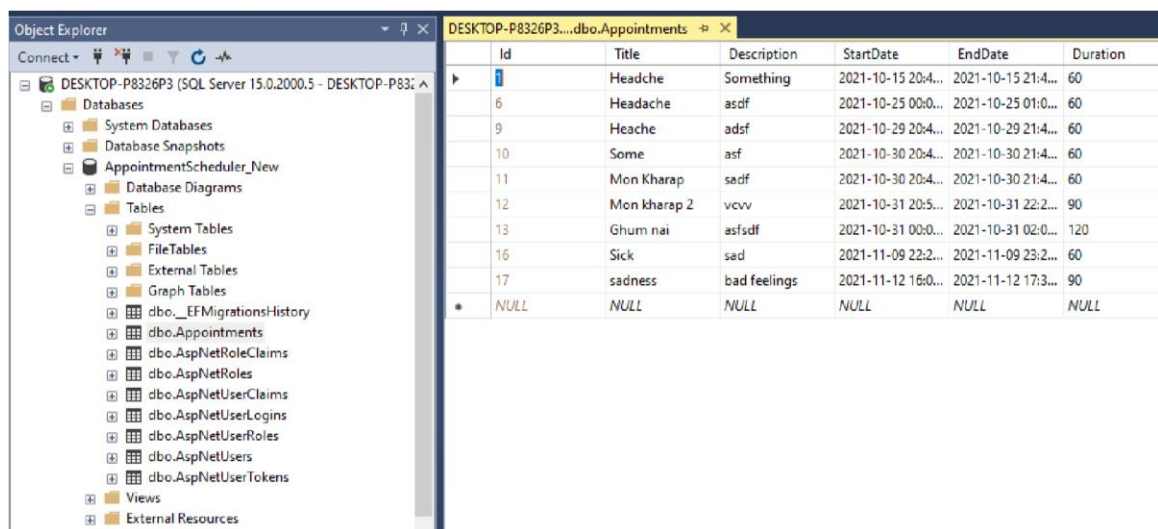
System testing is the level of testing that verifies a complete and integrated software product. The goal of system testing is to evaluate end-to-end system specifications. Software is usually only part of a larger computer system. Ultimately, the software communicates with other software / hardware systems. System tests are actually a variety of tests whose sole purpose is to perform a complete computer system.

We have tested our entire system and found no error or any kind of negative issues or any failure. We have tested all the outputs, front-end, back-end & other database and found the system is working perfectly.

Some testing outputs and diagrams are given below -

6.2 Database Testing

We tested our database which was working perfectly



Id	Title	Description	StartDate	EndDate	Duration
1	Headche	Something	2021-10-15 20:4...	2021-10-15 21:4...	60
6	Headache	asdf	2021-10-25 00:0...	2021-10-25 01:0...	60
9	Heache	asdf	2021-10-29 20:4...	2021-10-29 21:4...	60
10	Some	asf	2021-10-30 20:4...	2021-10-30 21:4...	60
11	Mon Kharap	sadf	2021-10-30 20:4...	2021-10-30 21:4...	60
12	Mon kharap 2	vcvv	2021-10-31 20:5...	2021-10-31 22:2...	90
13	Ghum nai	asfsdf	2021-10-31 00:0...	2021-10-31 02:0...	120
16	Sick	sad	2021-11-09 22:2...	2021-11-09 23:2...	60
17	sadness	bad feelings	2021-11-12 16:0...	2021-11-12 17:3...	90
*	NULL	NULL	NULL	NULL	NULL

Figure 6.2.1: Database of the system working perfectly

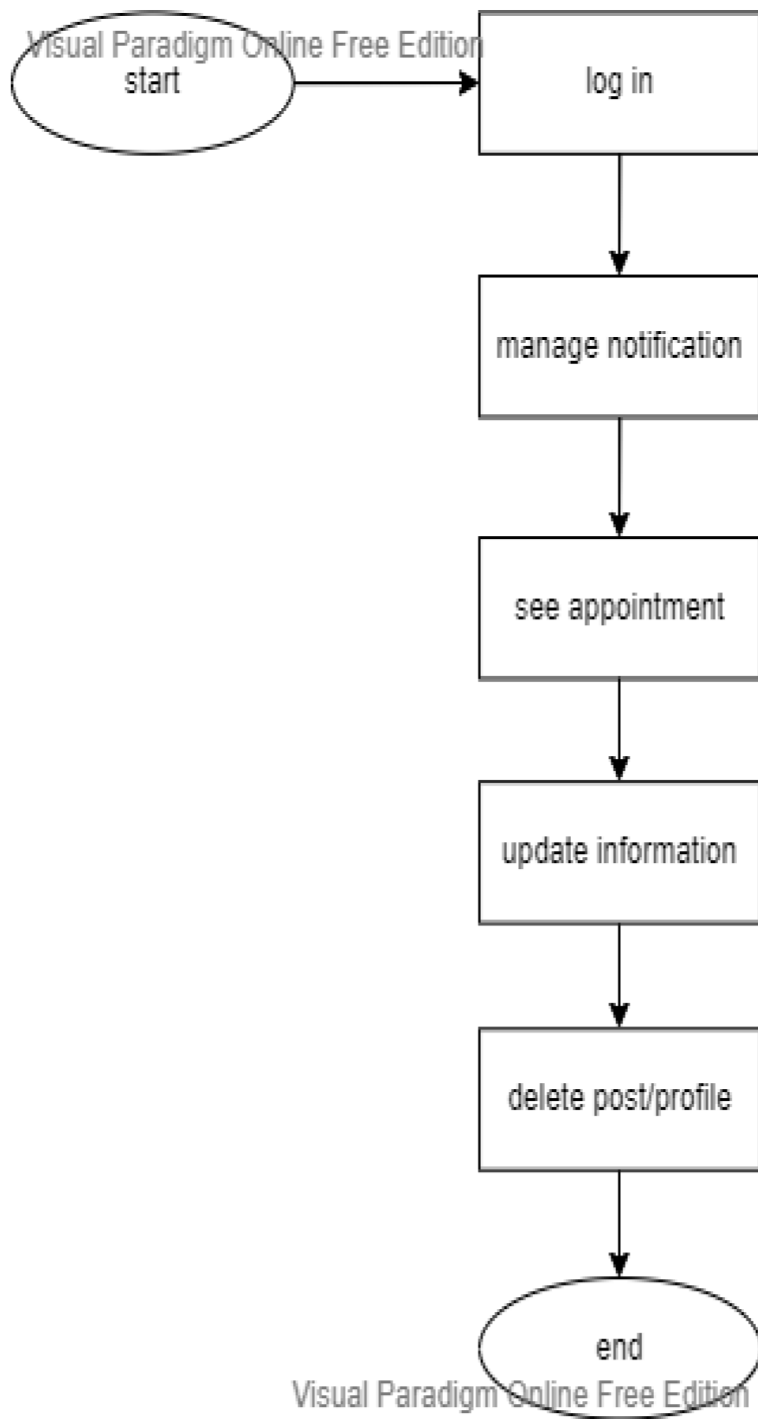


Figure 6.2.2: UX of Admin and the access

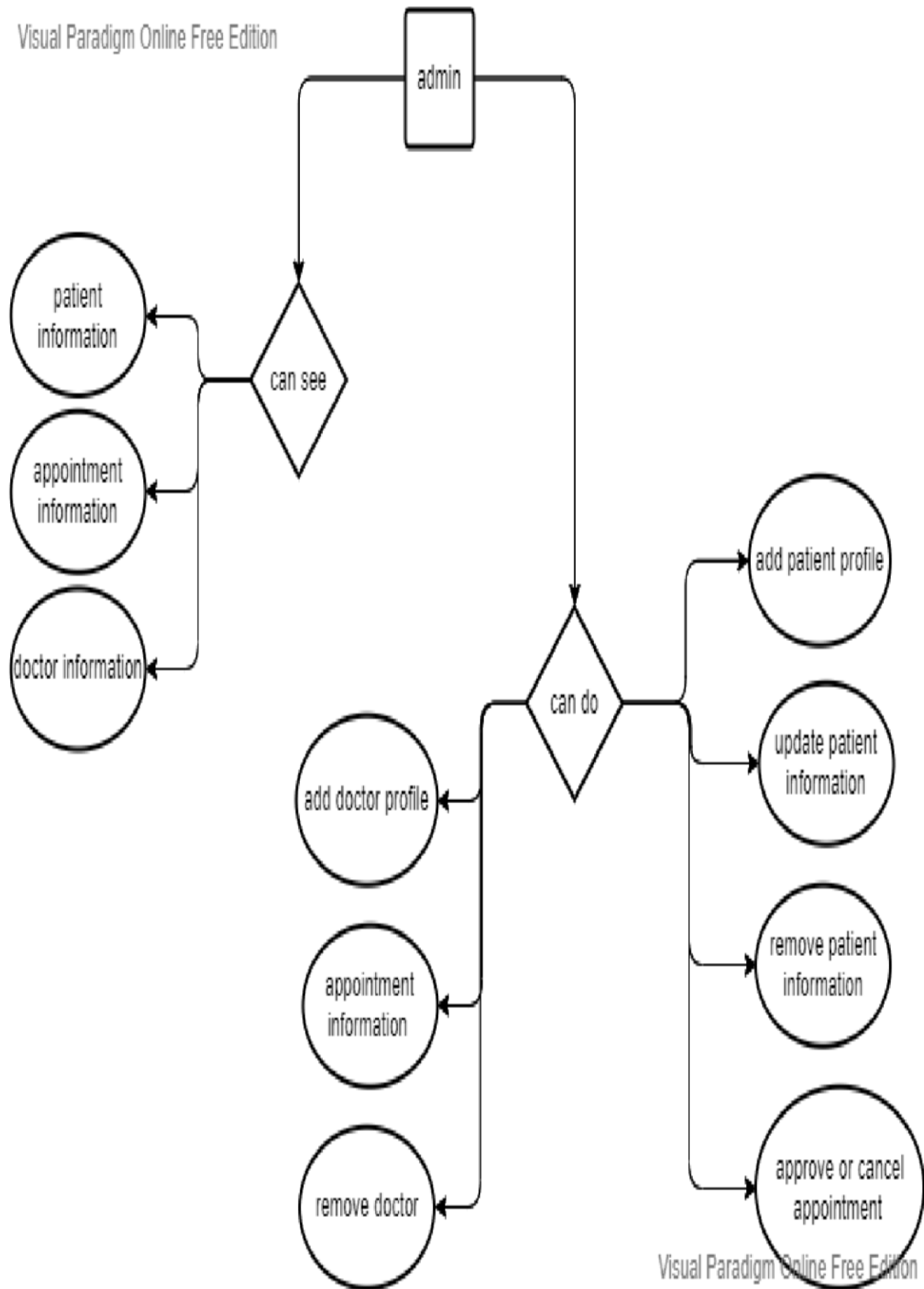


Figure 6.2.3: Admins action and the access

6.3 System and Notification Testing

We found our system works properly and it was capable to send notification to the user with the appointment update.

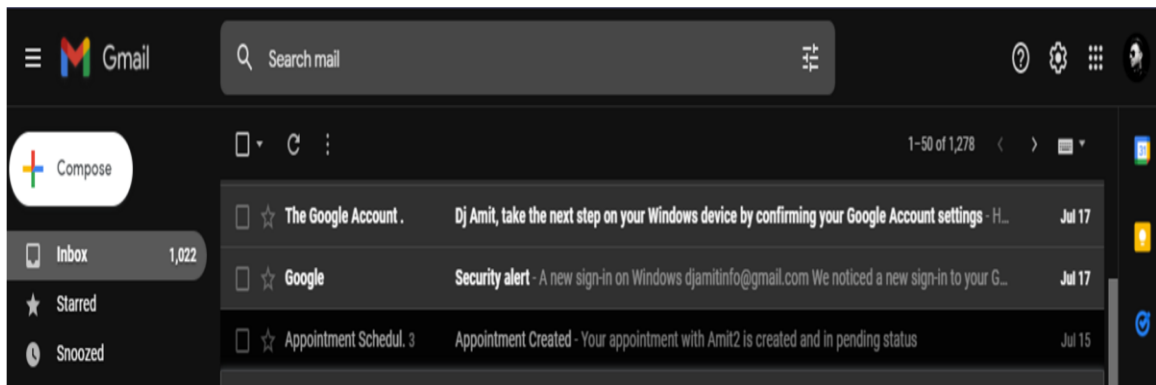


Figure 6.3.1: Appointment notification email

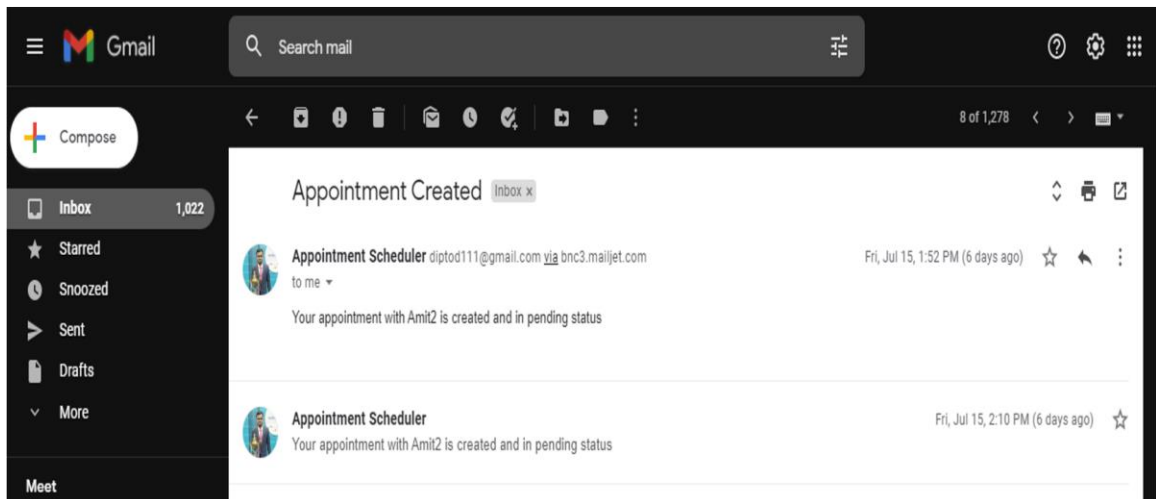


Figure 6.3.2: Appointment confirmation

CHAPTER 7

CONCLUSION AND FUTURE SCOPE

7.1 Conclusion

When we started, the actual test was to get that going. We began some web-based research and fostered our abilities. We also needed to learn new things to build and finish the entire venture. We also confronted a few specialized experiences, like crashing hard drive and framework disappointment. We additionally committed a few errors while coding, and finding those mistakes was difficult for us. After so much hard work we successfully achieved our goal and completed the entire project. We are expecting very much positive feedback & acceptance from the users.

7.2 Limitation

Having limitations on a project is very common and our project do have some limitations also, such as -

- Database management is quite complicated
- Not so easy to add new features
- Some may not found the joy
- No multimedia content included
- Tough to fix error
- Updating information is little bit complex
- Cross platforms are not available
- Needs good maintenance

7.3 Scope of Development and Future Plans

We gave our best efforts for establishing the whole system and we have some plans for coming future also, such as –

- We want to make our functioning area greater, better, and more successful in the future. We will attempt to add more specialists to give more offices.
- As we are not giving consultancy from specialists, we'll add a few paid bundles for the patients shortly, and most certainly, that will have a few beneficial outcomes not exclusively for the patients but also for our general public.
- We will try to make the user interface more user friendly
- Will add some new feature for better interaction
- We will upgrade the security system
- Will build a team for making it bigger , better and more useful

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