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I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.

Abstract

During the year 2020, due to zoonotic virus called Covid-19 people have faced a lot of problems related to their physical and mental well-being. Similarly, the lockdown done to prevent the transmission of virus affected many businesses. Facing a lot of problems during the pandemic the best way to draw the solution was to create a web application.

This report tracks down the development of the system to determine whether the proposed system can be completed on the mentioned time or not. The problems seen during the survey and research were to be solved through the features of application like creating online platform for pharmacist and counsellors, creating trusted platform and much more. This report also over all research done before the development of the projects, it also reflects the methodology followed to carry out the development with the progress till the date and further work progress.

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1. Introduction

1.1. Introduction to the topic

The recent unpredicted pandemic has caused a drastic change in the world. The challenges and threats caused by COVID-19 in health care system has highly affected the effective delivery of essential health service. The pandemic has highly affected the present world causing the shortage of medicines and untimely health services.

Year over year percent change in personal consumption expenditures on health care services, January 1960 - January 2021

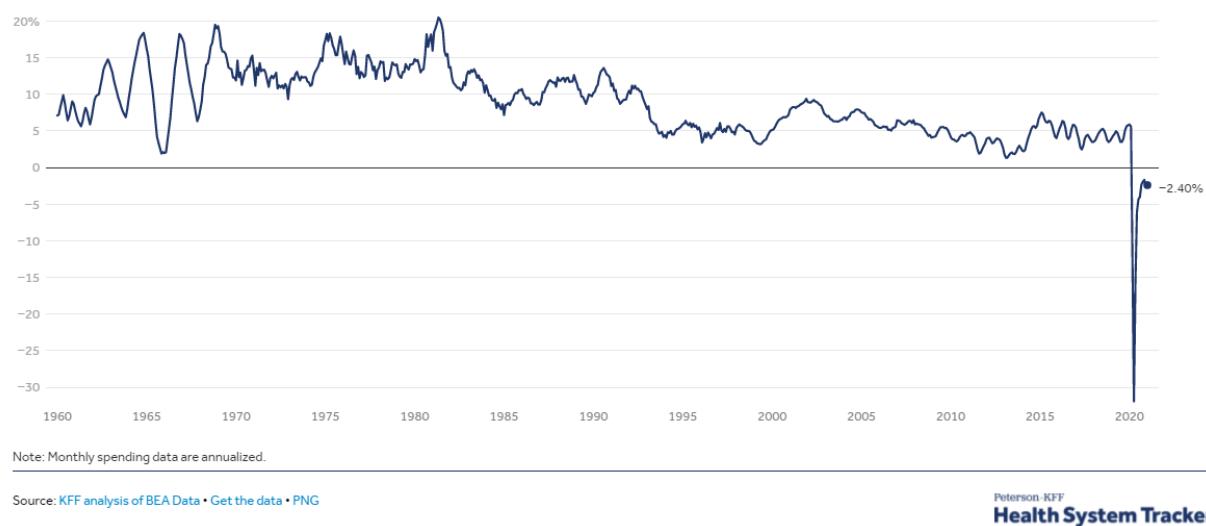


Figure 1: Graph of Health care services consumption

Since the introduction of internet and online applications, there has been a high revolution in the market including the health sector. With everything being digitalized, it has been a lot easy for the patients to know about their illness and its cure. The best way to reduce the risk of future pandemics is by avoiding a return to “business as usual”. With the same thought to reduce the future risk, a project named “Guardian” is introduced. The main aim of this project is to provide physical and mental health services in all the areas of Nepal. The physical health services are provided by creating an online store where customers can place their orders and the mental health service is provided by the counselling therapy.

1.2. Problem Statement

With the number of growing COVID-19 cases and unexpected lockdown within the entire country, it had been most difficult to access the medical health services and medicines. With the strict rules and regulations, getting out of home for any means of purpose was one of the most difficult tasks for people. This became a critical problem for the patients (aka customers) and pharmacies to sell their products. Likewise, being in a home whole day and spending time on digital gadgets had made children's, youths, and adults mental health ill. The covid was the main key to remove the cotton covering this problem.

The other problem is that not all persons are able to buy their medicines physically and attend their therapy session physically. For example, a disabled person or an aged person must be reliable to their caretaker or their family to buy them their medicines and drop them for their therapy session. Similarly, the prescription provided by the doctor aren't able to read by patients which creates a lot of difficulties for patients to research and buy (if not heavy drugs) medicines without prescription.

A survey was taken among 53 people including Pharmacist, counsellor, Doctor and nurses where multiple questions were asked to them. With the help of that survey the problems were visualized.

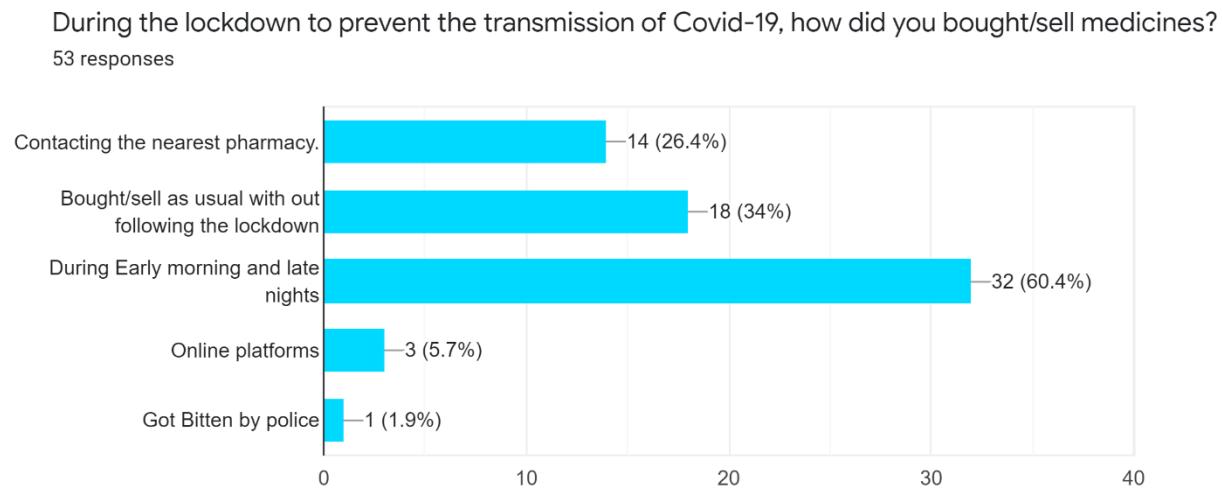


Figure 2: Bar graph of survey: Buying medicines during covid-19

Here, we can see that how people were buying and selling medicines during covid-19 pandemic.

1.3. Project as a Solution

The solution brought for the above problem statement is a web application called "Guardian," which is on the cart of health and wealth. The Guardian serves as an internet hub for pharmacists, counsellors, and their customers, allowing pharmacies and counsellors to expand their businesses by offering drugs and health advice to their clients. Customers can use the app as an online medical store to order, study, and take online therapy prescribed by their doctors by uploading a perception sheet or manually ordering the medicine. It also connects clients with pharmacies and counselors in their area that provide medicines and counseling, allowing them to select, order, and pay online or offline. Similarly, this reduces the reliance of the elderly or disabled on their caregivers or family members. Also, it informs patients (clients) about the medicines they are taking.

According to the survey carried out the peoples who responded the form found out the application proposed was best. From the graph we can say that most of the people have rated 4 out of 5.

Rate the usefulness of this project in our daily life.

53 responses

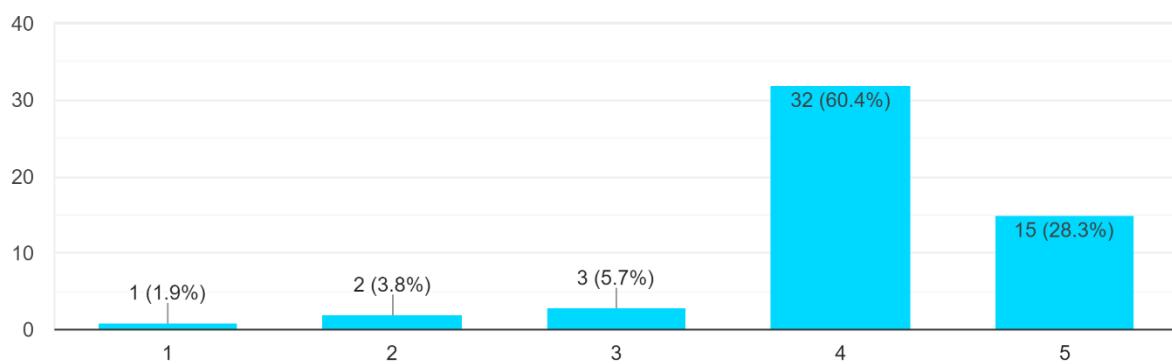


Figure 3: Bar graph of Survey: Rating the usefulness of the project.

2. Background and Literature Review

2.1. Client/End User

This project proposes a web platform that is used by Pharmacists, counsellors and their customers. This application will be used for buying/selling medicines, connecting with required counsellors, reading health related blogs, knowing the prescriptions and many other reasons. There isn't any single client for this application.

To understand the need of this application survey was carried out among pharmacists, counsellors, health workers and normal peoples. With the help of this survey various forms of problems were collected from them. In this way most of the requirements were gathered for the project which could solve most of their problems. The summary of the problems with their corresponding views of the people collected in the survey are shown below: -

1. Lack of Online platform for pharmacy.

Lately the government of Nepal have banned for buying and selling medicines online which has had created difficulties for most of the peoples who are most dependent with others to buy medicines and the pharmacy owners are not able to broaden their business.

Have you ever been in such a situation where you felt the need of online platform for/your pharmacy?

53 responses

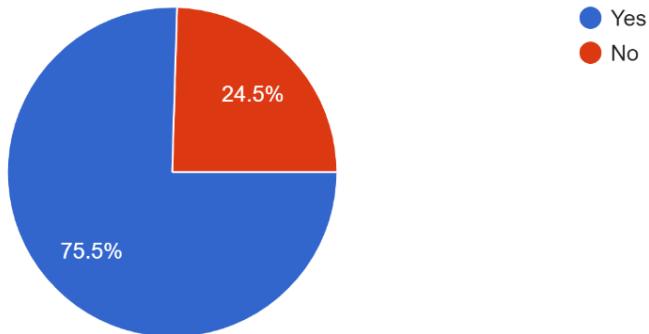


Figure 4: Pie Chart showing the need of online pharmacy.

2. Lack of Online platform for Counsellor.

According to the WHO report of 2020, there is an increase of 13% mental health issues. The counsellor plays a vital role in reducing the mental health issue. Similarly, with the survey result it is clear that about two third of people think they need an online platform to get proper counsellor and in 2nd diagram it's clear that during lockdown most of the people need counsellors.

Have you ever been in such a situation where you felt the need of online platform to find out counsellor/Reach out to people(as counsellor)?
53 responses

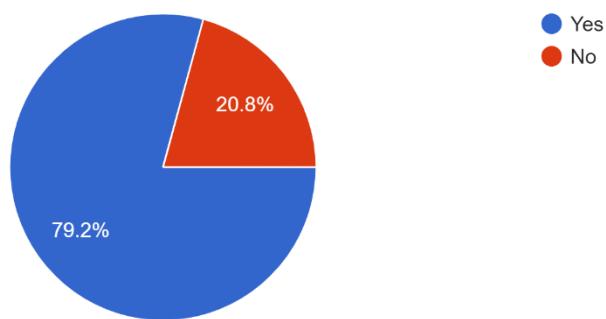


Figure 5: Pie Chart showing the need of online counsellor/people.

When we were grounded because of covid lockdown do you think people needed someone to cheer them up like counsellors with whom they can ...ow they felt and release all their hidden words ?
53 responses

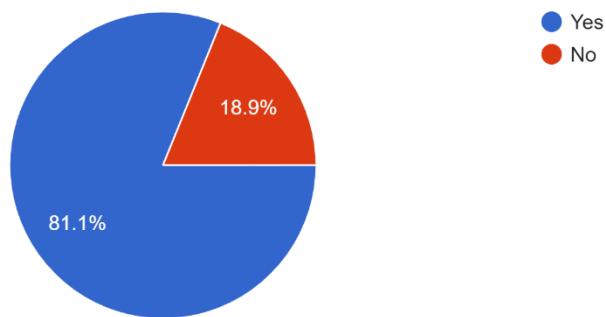


Figure 6: Pie Chart showing the need of counsellor during lockdown.

3. Difficulties faced by aged peoples.

As we know, the aged people are mostly dependent with others and the same result has been obtained from the survey. From the diagram below it is clear that the aged peoples depend on their family members or with their neighbours.

Do you have any idea how aged people buy medicines or have a therapy sessions?
53 responses

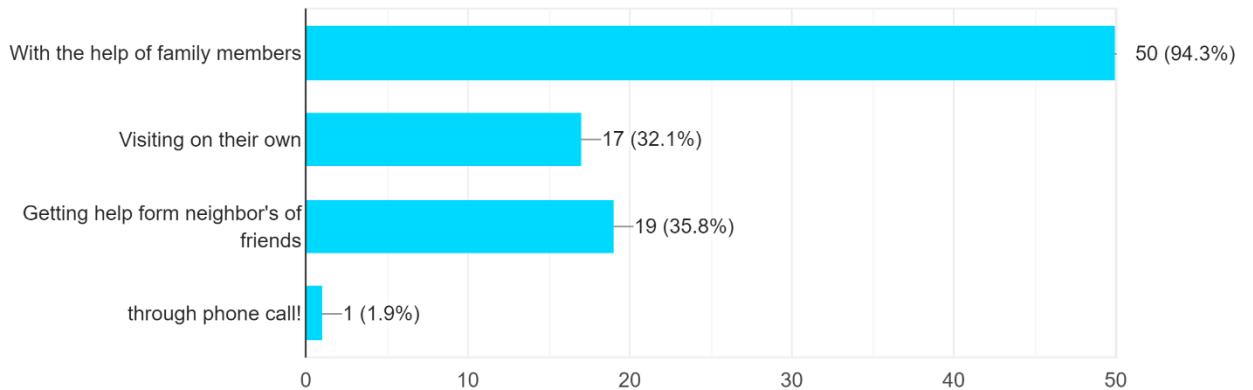


Figure 7: Bar graph showing the response thought on aged people.

Likewise, people depend upon others (neighbours or their friends) whenever they got sick.

If you are home alone and you got sick then how will you buy medicines?
53 responses

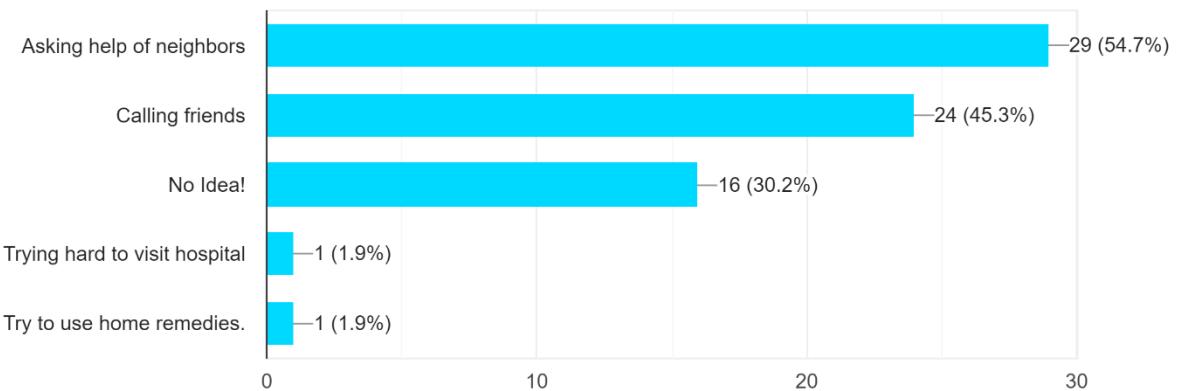


Figure 8: Bar graph showing the response opinion during uncertain medical emergency.

4. Difficulties in understanding prescription.

As we know, it's hard for everyone to understand other people handwriting and more difficult when it comes to the medical terms. During the survey similarly result was found. 90% people found difficulties in understanding the prescriptions.

Have you ever felt difficulties in understanding the prescriptions given by doctors and invoice given by pharmacist?

53 responses

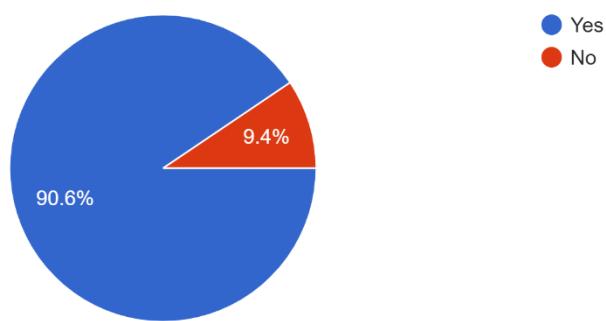


Figure 9: Pie Chart showing the percentage of difficulties faced by response on understanding the prescription.

The survey was one of the efficient and effective way of getting the perception of clients about the application.

2.2. Drawing the solution

The problems raised from the survey encourages me to develop a web application as a solution for each problem as shown below:

a. Creating web platform for Pharmacy

It's better to buy medicines online rather than being depended on others.

Do you think an online pharmacy with mentioned features would be better to solve the problems (mentioned above) ?

53 responses

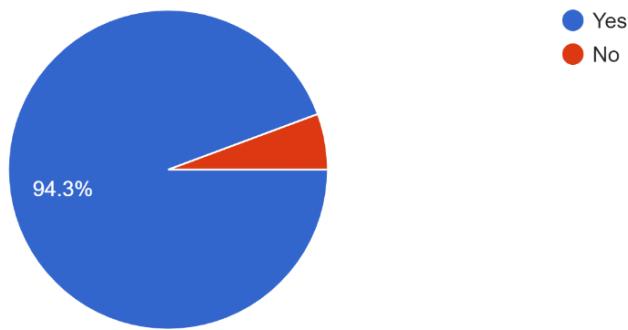


Figure 10: Pie Chart showing the interest of response on online platform for pharmacy.

b. Creating web platform for Counsellors

Its better to choose suitable counsellor online and know their schedules rather than visiting the common counsellor.

Do you think an online Counsellor with mentioned features would be better to solve the problems (mentioned above) ?

53 responses

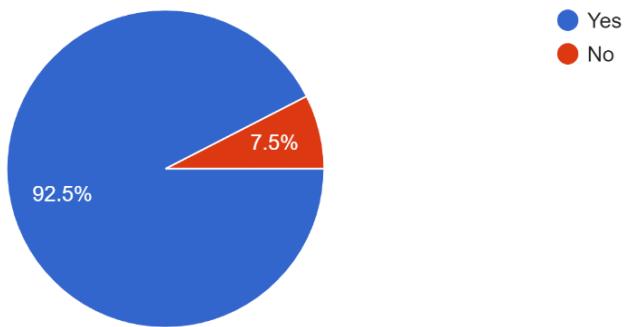


Figure 11: Pie Chart showing the interest of response on online platform for counsellor.

c. Creating a platform to upload Prescriptions.

Since most of the people were not able to understand the prescription, I found uploading the prescription and submitting it to the health person is better since the rating on creating Artificial intelligence was average.

How useful do you think an AI used in a webapp to digitalize your prescription, will be?

53 responses

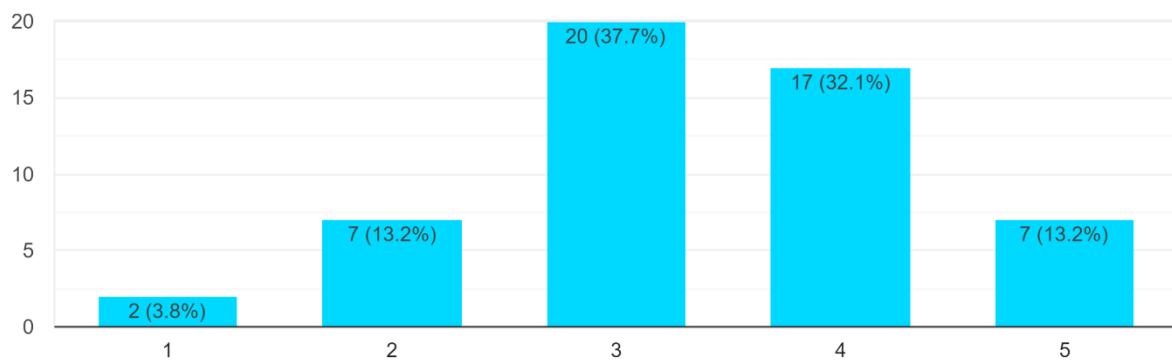


Figure 12: Response on implementing AI to understand prescriptions.

Hence, the Guardian is the combination of the features listed above and much more. It could be a great solution for the problems which most of the peoples, Pharmacist and counsellors have faced or might face.

2.3. Review of similar system/application

Research was carried out before the development of an application over different applications similar to this project. I have taken some design ideas and other architectures from them. Some of the similar projects where: -

2.3.1. Netmeds.com

Netmed.com is an online portal for medicines where one can upload the prescription, order medicines, and get them delivered at the doorstep. The company came into being in 2015 and since then it is trying to make all the modern medicines available and affordable for all with a hybrid inventory/marketplace model. Netmed.com takes full responsibility for every order from receiving and venting prescriptions, to taking payments and then finally sourcing the products.

As per my analysis, netmeds.com have very broad and popular application with positive aspects are it have high user trust, with different features like upload prescription, ordering medicines with the location tracker feature.

It might help me with the idea of uploading prescription and add health related news into the platform. It encourages me to use blog posts in my project. (Netmeds, 2021)

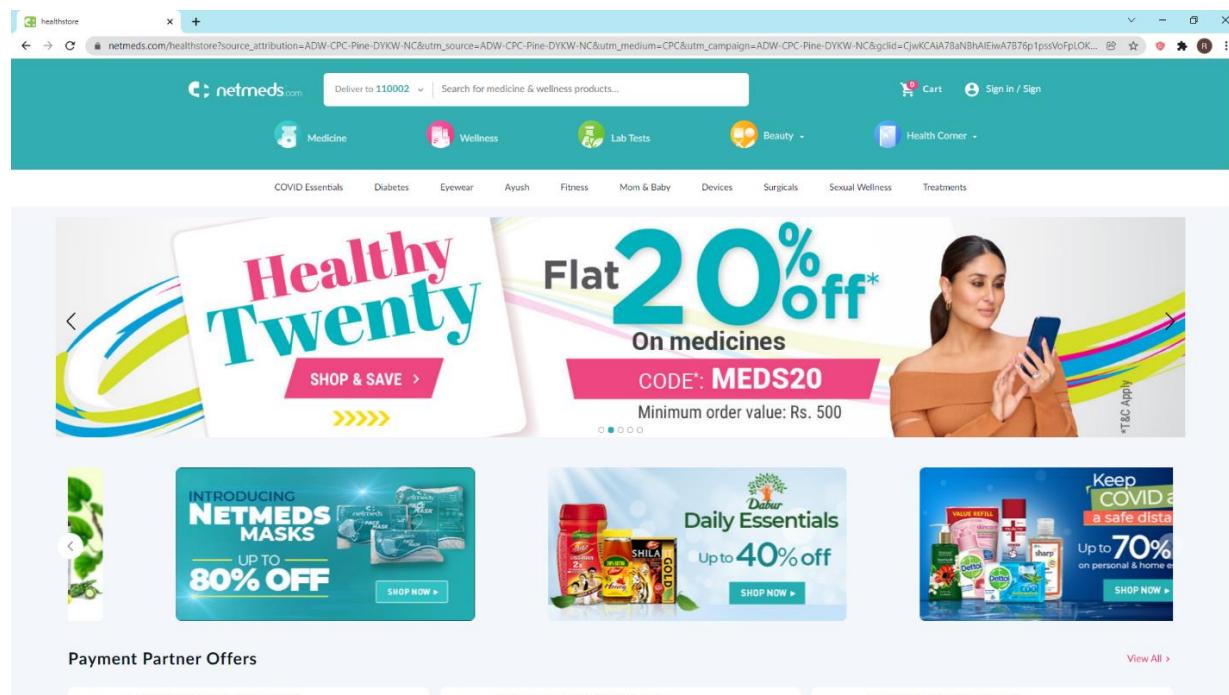


Figure 13: Home page of Netmeds.com

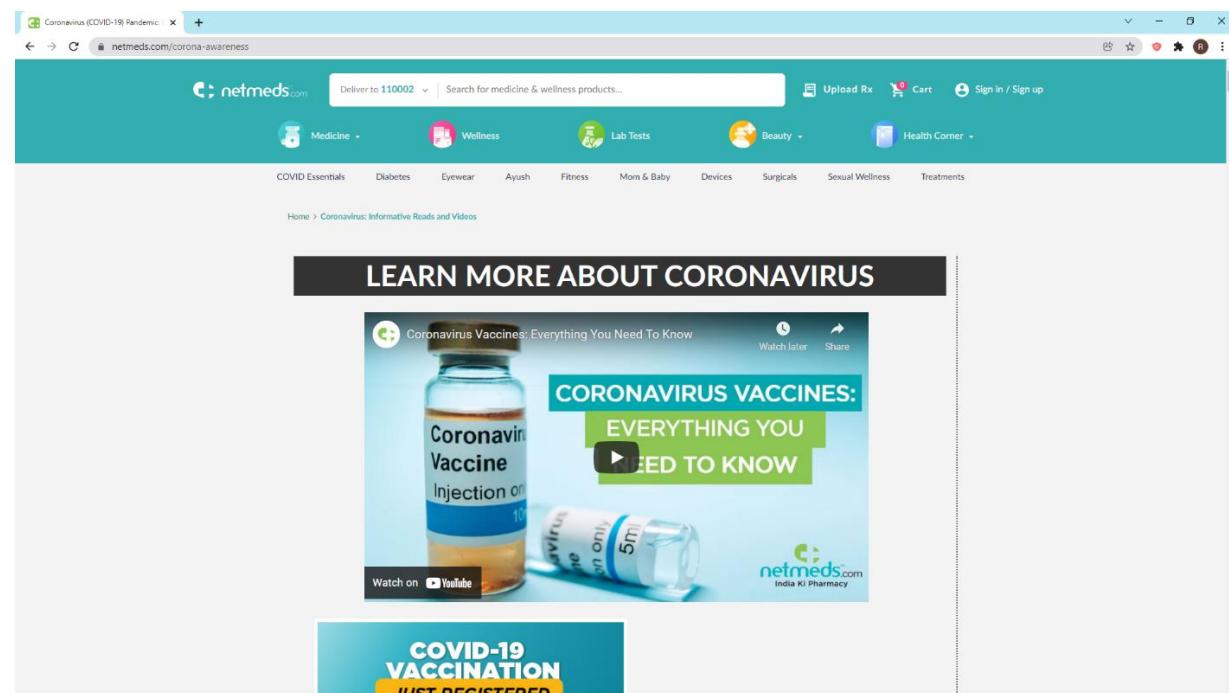


Figure 14: Blog page of Netmeds.com

2.3.2. Dhani Pharmacy

Dhani Healthcare Limited is a primary healthcare and pharmacy services provider. Through its Health offering - Dhani Doctor, it provides holistic OPD solutions to patients with instant video consultations by in-house specialists and general practitioners available 24x7. Customers can also avail door-step delivery of prescribed medicines and in-home diagnostic tests. Alongside healthcare consultations, Dhani Health also includes a pharmacy offering that provides medicines and healthcare products. Available on both website and mobile app, medicines are delivered to customers' doorsteps across different cities.

The positive aspect of this application is that it provides primary health care as well as provide pharmacy services. Similarly, they also have video call system to operate with their patients.

I didn't find any negative aspects in this application, but I would have loved if they had carried out therapy to their patient with video conference as well.

It influences me to develop the idea to including video call schedule. And encouraged me to include health care products as well. (Dhani Pharmacy, 2021)

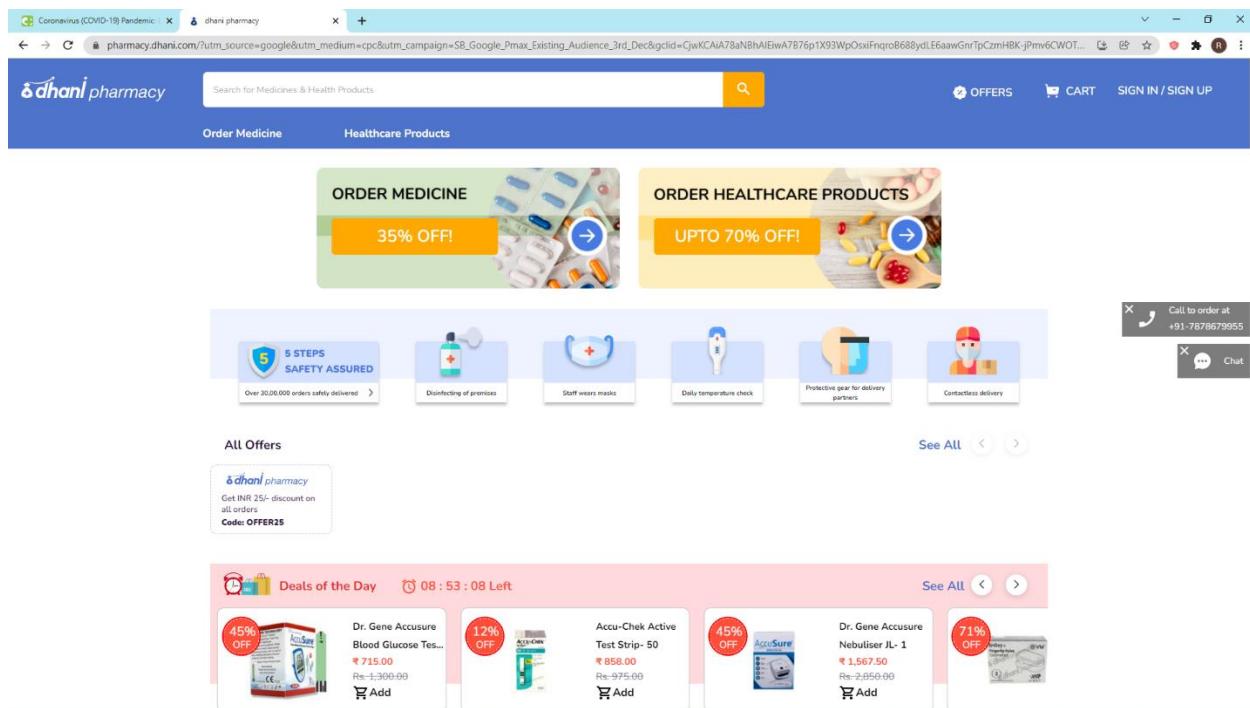


Figure 15: Health care product page of Dhani Pharmacy.

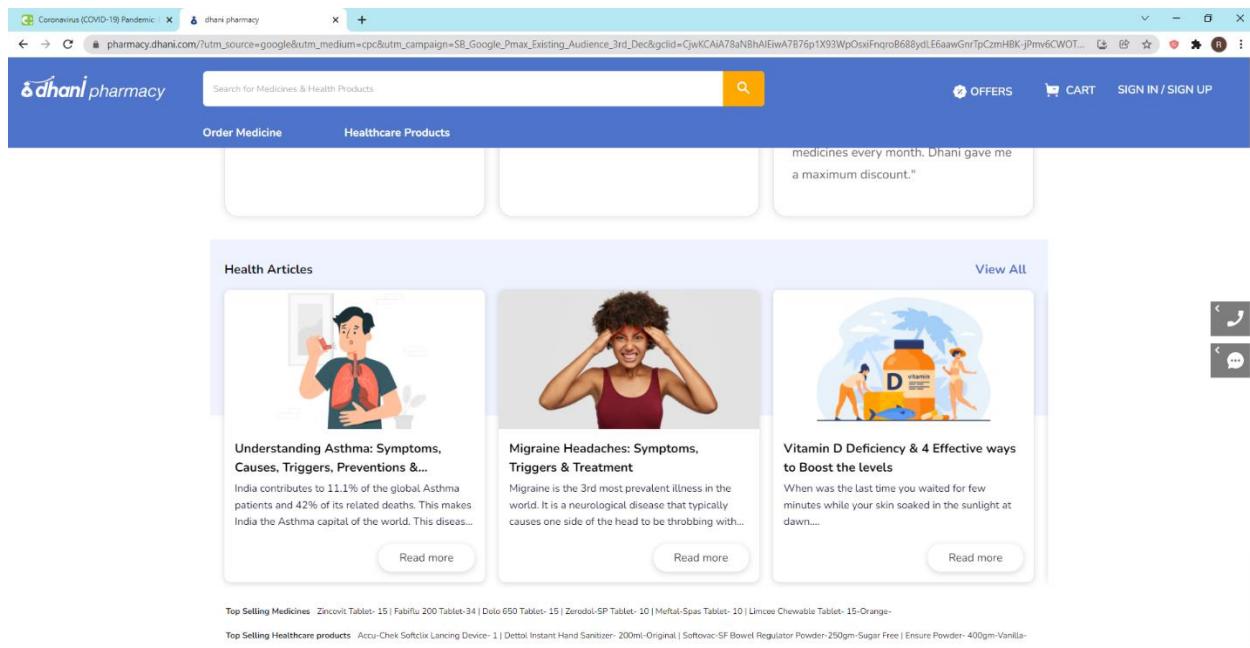


Figure 16: Health Article page of Dhani Pharmacy.

2.3.3. Nepmeds

Nepmeds is a digital healthcare partner with an aim to providing a healing touch to you and your loved ones. Nepmeds help their patients in accessing health issues, getting in touch with the right doctor, booking diagnostic tests, vaccination, getting your required medicines, storing health records, staying fit or learning new ways to live happier. They provide a one-stop solution to a variety of medicines from different manufacturers offering a variety of categories including generic medicines, OTC products, wellness products, vitamins, diet/fitness supplements, Ayurveda products, pain relievers, diabetic care kits, baby/mother care products, beauty care products and surgical consumables.

The positive aspect of this application is that they have collaborated with 400 plus company to provide proper services to the customs. I found a lot of good things in this application, it provides doctor consultation, online laboratory, and wholesale item for small pharmacies. (Nepmeds, 2021)

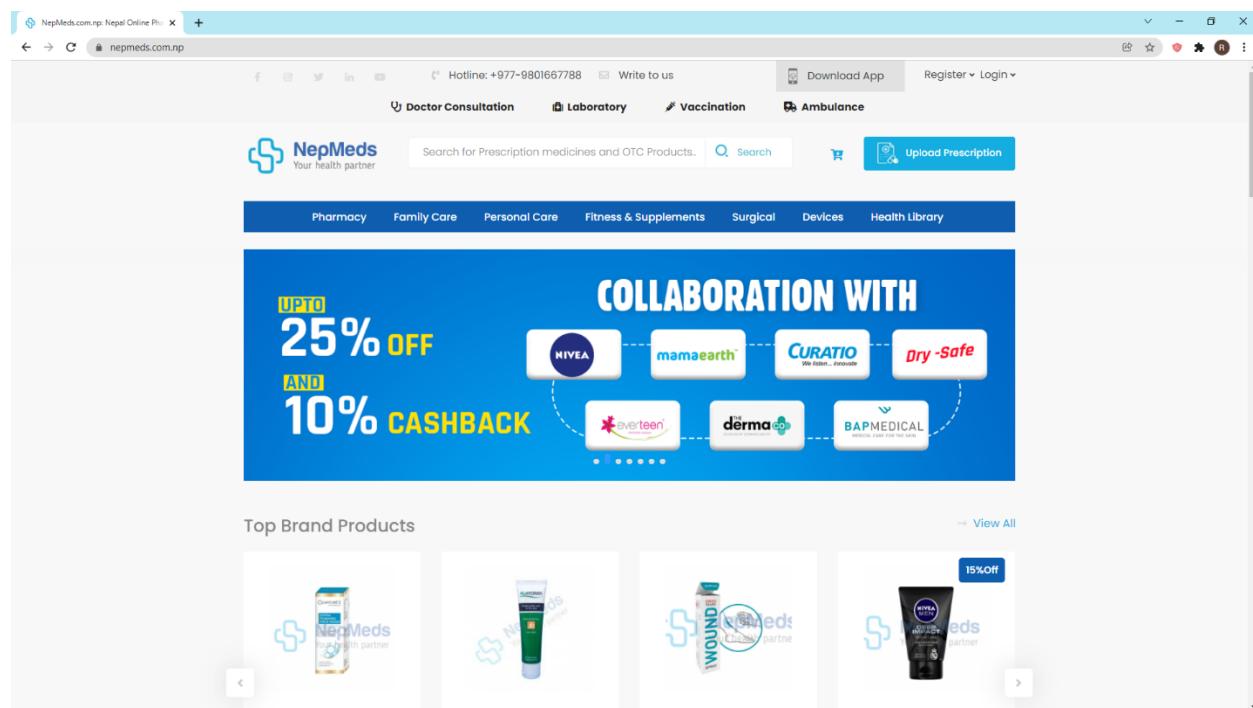


Figure 17: Home page of NepMeds

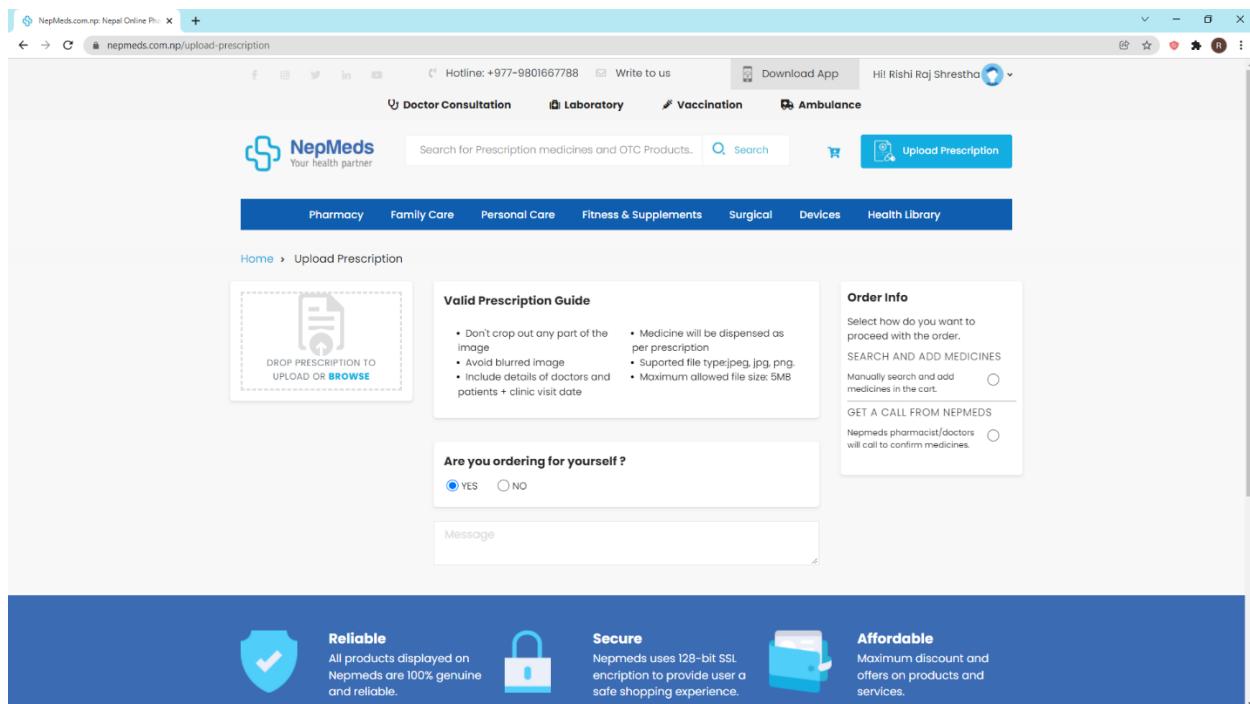


Figure 18: Uploading prescription feature on NetMeds.

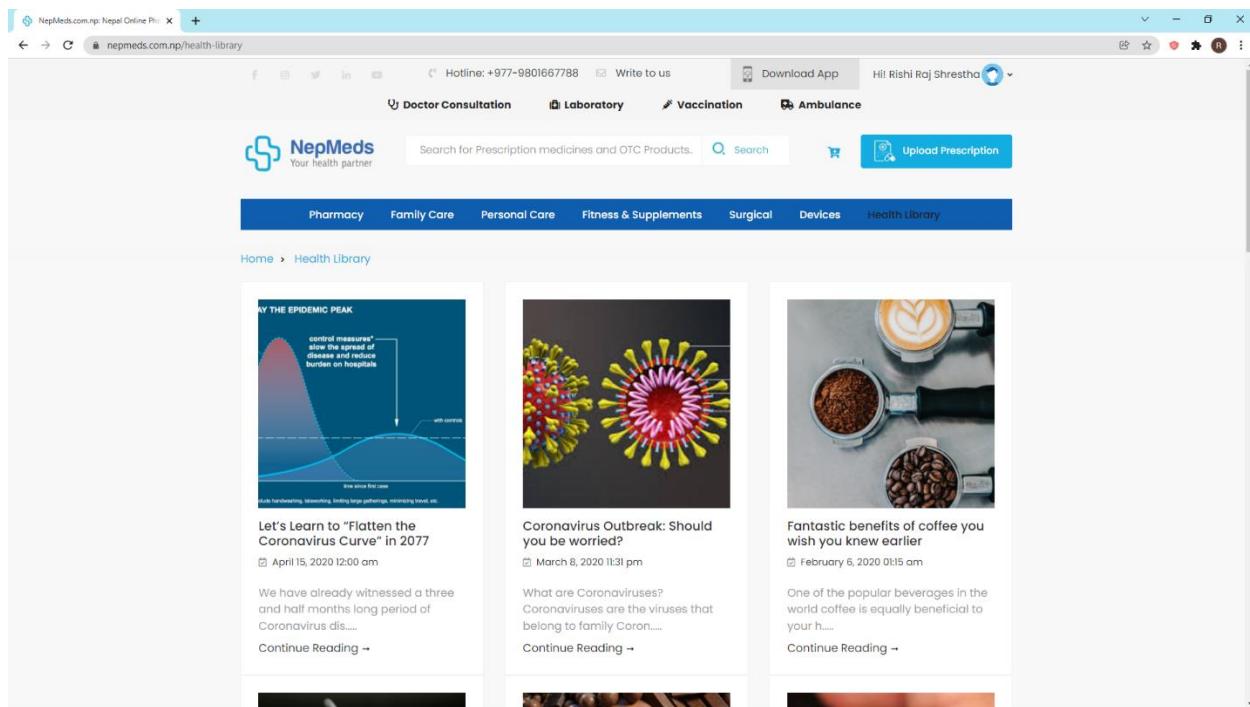


Figure 19: Health related articles.

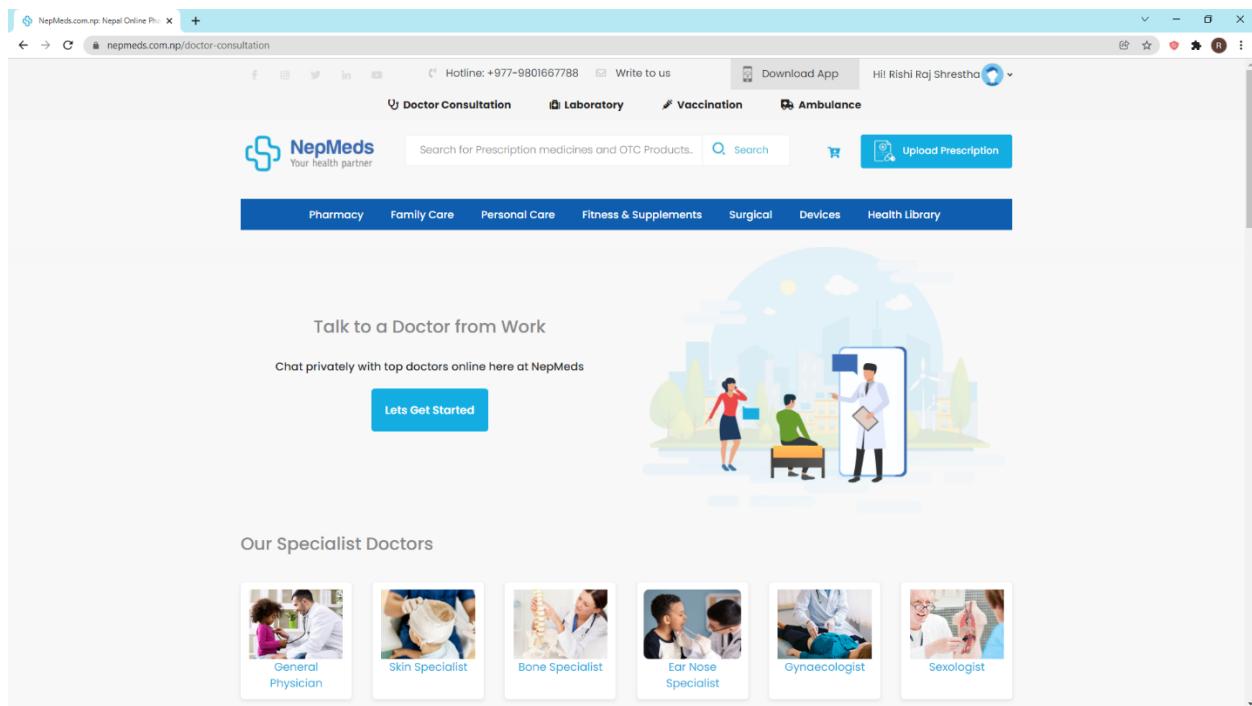


Figure 20: Page to contact specialist Doctors.

Table 1: Similar application analysis.

S/N	Name	Analysis	Feature taken or can consider in my project
1	Netmeds.com	They have high user trust, with different features like upload prescription, ordering medicines with the location tracker feature.	uploading prescription, Health related news
2	Dhani Pharmacy	They provide primary health care as well as provide pharmacy services. Similarly, they also have video call system to operate with their patients.	Adding category for health care products, Online OPD system.
3	Nepmeds	They have collaborated with 400 plus company to provide proper services to the customs. Similarly, it provides doctor consultation, online laboratory, and wholesale item for small pharmacies.	User interfaces, feature to submit prescriptions, Collaborating with small pharmacies.

2.4. Review of technical aspects

This section of this report explains the review of different software and hardware technologies used or will be using for the development of this applications proposed by this project.

2.4.1. Programming Language

a. Python

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. It has a clear and simple syntax that makes it very easy to learn, which turns it into the perfect gateway for programming beginners. That's because the language emphasizes readability and makes coding very easy.

Python is also the fastest-growing programming language in the world. Its high-level, interpreted, and object-oriented architecture makes it ideal for all types of software solutions. What's more, the language's emphasis on syntax readability, program modularity, and code reusability highly

increases the speed of development while reducing the cost of maintenance.

Another main feature of Python is that it supports modules and packages. Both things make it easier for Python developers to reuse code across different projects. (Python.org, 2021)

b. Django framework

Django is an open-source framework for backend web applications based on Python — one of the top web development languages. Its main goals are simplicity, flexibility, reliability, and scalability.

The features of Django framework: -

- a. Simple syntax
- b. Its own web server
- c. MVC (Model-View-Controller) core architecture
- d. “Batteries included” (comes with all the essentials needed to solve solving common cases)
- e. An ORM (Object Relational Mapper)
- f. HTTP libraries
- g. Middleware support
- h. A Python unit test framework.

The Django framework is preferred because its fast and simple, its secure, it suits any web application project and as well as its well-established. (Django, 2021)

c. HTML5, CSS3 and JavaScript's

HTML5

HTML also known as Hypertext markup language is the basic building block of a website because it defines the structure of the content in web through the use of markup language.

The reason for choosing this for front-end development are because of cleaner and managed code, consistency and Offline Application cache.

CSS

CSS also known as cascading style sheet is a language for controlling various functionalities and elements such as text font, colour, much more styles (like how the sheet is to be displayed over the website). The reason of using CSS is because of its Consistency, Easy to maintain, Improve website load. (W3C, 2021)

JavaScript

JavaScript is the client-side scripting language, which is lightweight, interpreted and is a prototype based multi-paradigm, single-threaded, supportive object-oriented, dynamic language, imperative and declarative. The reason for using the JavaScript is because of its compatible with other languages, can be used in multiple applications, it reduces the load to the server by reducing the demand on the server and much more. (Pluralsight, 2021)

2.4.2. Integrated Development Environment (IDE)

a. Visual Studio Code

Visual Studio Code is an open-source, extensible, light-weight editor available on all platforms. It's these qualities that make Visual Studio Code from Microsoft very popular, and a great platform for Python development. (Microsoft, 2021)

3. Development

3.1. Approach or Methodology consideration

The Project methodology offers a clear project roadmap that lists all the steps required to deliver a project successfully. These project methodologies provide a defined governance structure, process guidelines, test activities, processes, and deliverables. They take a well-detailed, rigid, and repeatable approach towards project management.

3.1.1. Waterfall Model

Waterfall methodology is one of the widely used software methodology for the development of a project. Defining this methodology, it's an approach that focusses on a linear progression of the project for beginning of the new phase previous phase must be completed.

Waterfall model project fully front-loaded because the success of the project depends on the quality of work done at front end as to integrate change along the course is way harder than it is with agile. Waterfall Methodology is best suited for simple projects and deadline to be meet. (Lewis, 2021)

3.1.2. Extreme Programming

Extreme programming (XP) is an agile software development methodology used to implement software projects. XP is designed to use face to face human communication in place of written documentation wherever possible. Effective conversation is faster and more effective than written documentation. When you bring people together, they need less paperwork.

The core of Extreme Programming (XP) is the interconnected set of software development practices. Even though with time Extreme Programming (XP) Practices have changed a bit since they were initially introduced. While it is possible to do these practices in isolation, many teams have found some practices reinforce the others and should be done in conjunction to fully eliminate the risks you often face in software development. (wells, 2013)

3.1.3. Scrum

Scrum is one of the dominant Agile frameworks which has a set of guidelines that manage the development of product. Methodology is iterative, measurable, and incremental, since it focuses on really tightening up development cycles, which are based on scope that is divided into smaller tasks amounts of effort called sprints, rather than extensive planning, building, testing or deployment.

Scrum Characteristics

- Small self-organization team: Responsibilities are discussed among all the members of the team.
- Less documentation: To the point, user stories are used.
- Regular and frequent customer feedback: Customer closely works with the team.
- Decentralization: Decision making is easy

In Scrum, Sprint is the heart of the Scrum activity. In every sprint, the time frame of one weeks or one month is given to deliver the increment. The times allotted for each activity need to be consistent throughout the project. The next sprint can be executed as soon as the previous sprints have been completed. The Sprint includes:

- Sprint Planning
- Daily Scrums
- Sprint Review
- Sprint Retrospective

In Sprint Planning the scrum team collaboratively makes plan to execute it in the sprint. The duration of the sprint is also planned. The two thing that are discussed in this planning is:

What needs to be delivered?

How to execute the work

The daily scrum is a short standing meeting held to synchronize the activities. Each person describes what has done already and what is going to be done for the project.

The sprint is reviewed at the end of every sprint. The scrum team and other stakeholders review the sprint that has been released, so then changes are reviewed, creating value to the project. The objective of the sprint review is to adjust the feedback and move towards progress in a collaborative manner.

The sprint retrospective occurs after the sprint review but before planning begins for the next sprint. It is an hour-long meeting. Its purpose is to combine what has been learned from the recent sprints and identify significant items which could be developed to improve the project. (Scrum.org, 2021)

3.2. Chosen Approach/Methodology

(Sprint works explanation)

1. Planning

Here, the objective of the sprints will be discussed similarly discussion will be done on the sprint valuable, what will be done on each sprint? and how the work will be carried out?

2. Daily Scrum

Every week a meeting will be set with the supervisor to synchronize the activities done for the projects. Explaining every problem faced during the week and describing what will be the next move for the project.

3. Sprint Review

To create a value of the project supervisor will be checking the log of every week task, provide feedbacks and reviewing the works.

4. Sprint Retrospective

It will be done together with sprint review where the supervisor will listen to our week works and helps us in identifying the identify significant items which could be developed to improve the project, and this is done by doing presentation of our week progress on weekly meeting.

4. Progress

The completed stages of methodology in the early time boxing of the project are described below.

1. Planning

Firstly, research was done and survey among different peoples to understand the adequate need of the system in the real time environment. Similarly, project planning was done, its features were listed, and a proper analysis was done towards the project.

More importantly scrum planning was done, and a brief layout was set on how the work will be done on each sprint.

2. Sprint

Each sprint was carried out with proper planning with the supervision and every week during the meeting reviews and sprint retrospective was collected. The main task done in each sprint are pointed below: -

Sprint 1: During the first scrum the designing task was done. The designing task includes the Use case of the project and Wireframe of the application.

Sprint 2: During the second scrum the possible database structure was designed. Firstly, the entities and attributes were identified then the initial entity relationship diagram was drawn and then the normalization was carried out.

Sprint 3: During this sprint the frontend was created. Using the wireframe as a design frontend was created. HTML5, CSS3 and JavaScript was used to code the frontend.

Sprint 4: Currently the scrum 4 is running where I am implementing Django to create frontend templates, to implement different Django views as per the requirement of the designed frontend.

3. Frontend

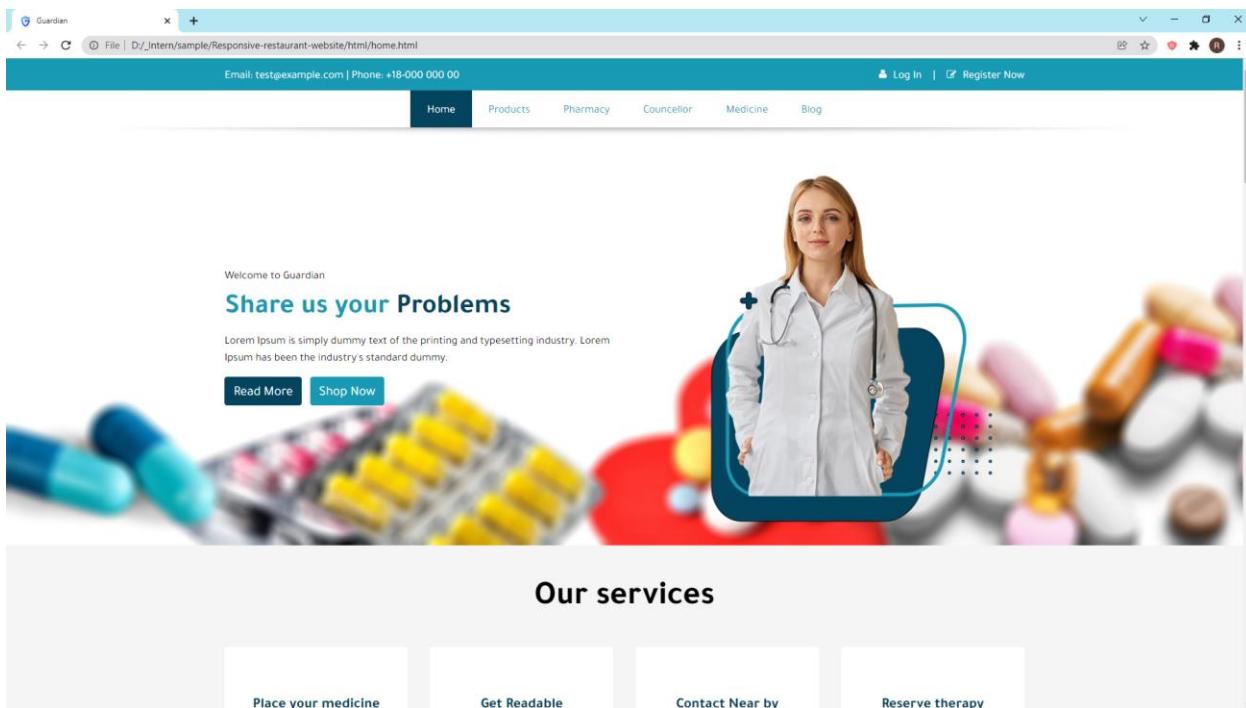


Figure 21: Home Page 1

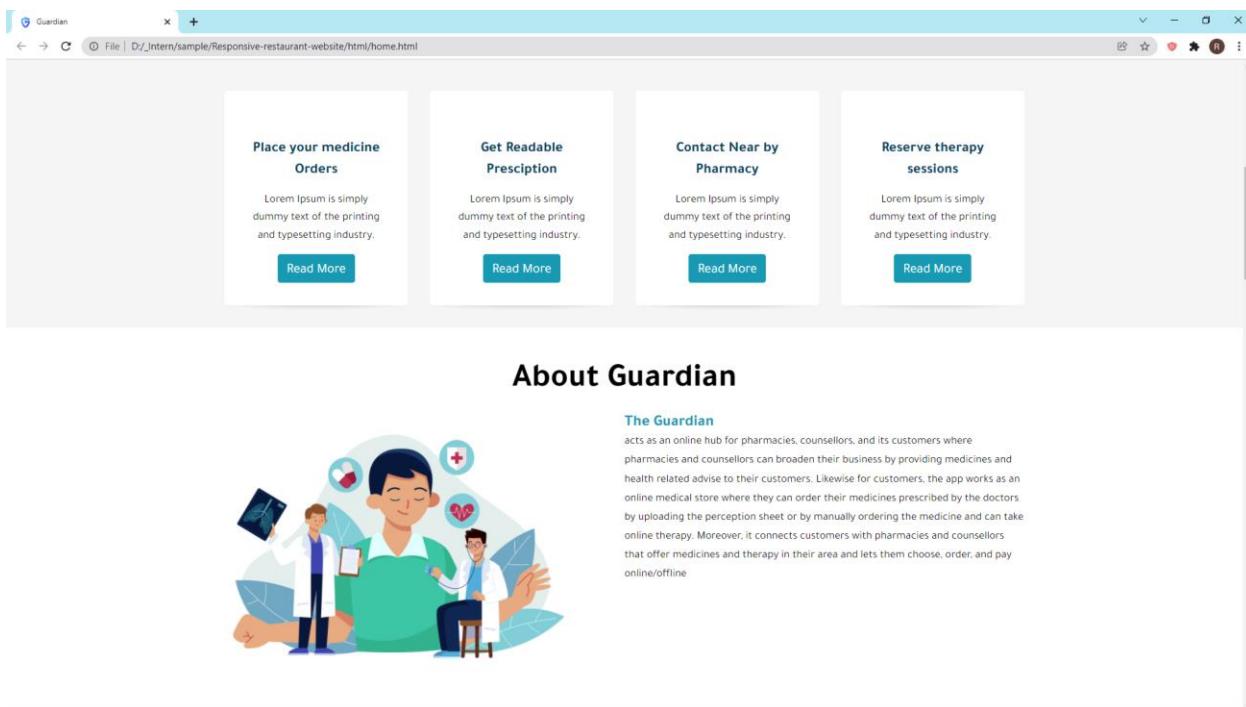


Figure 22: Home page 2

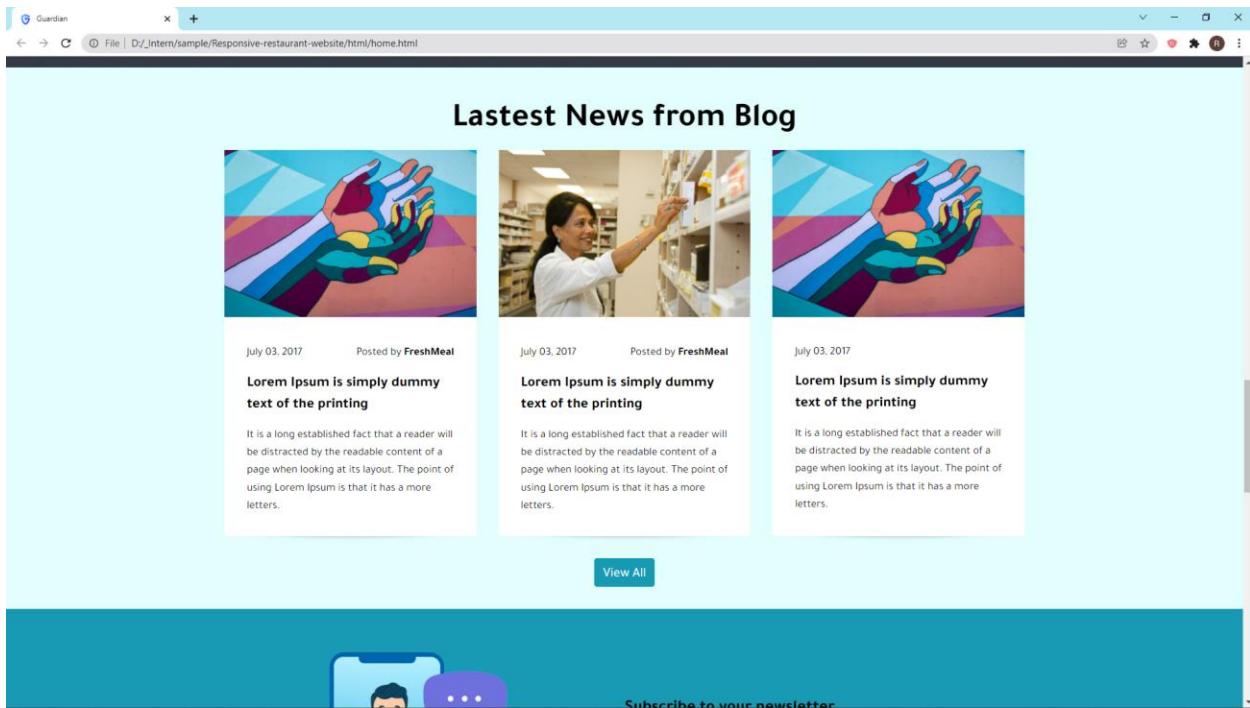


Figure 23: Home Page 3

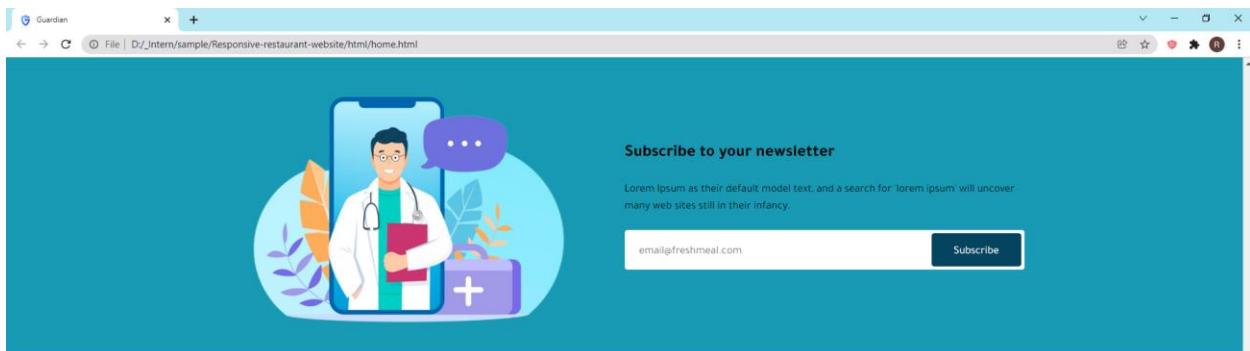


Figure 24: Home Page 4

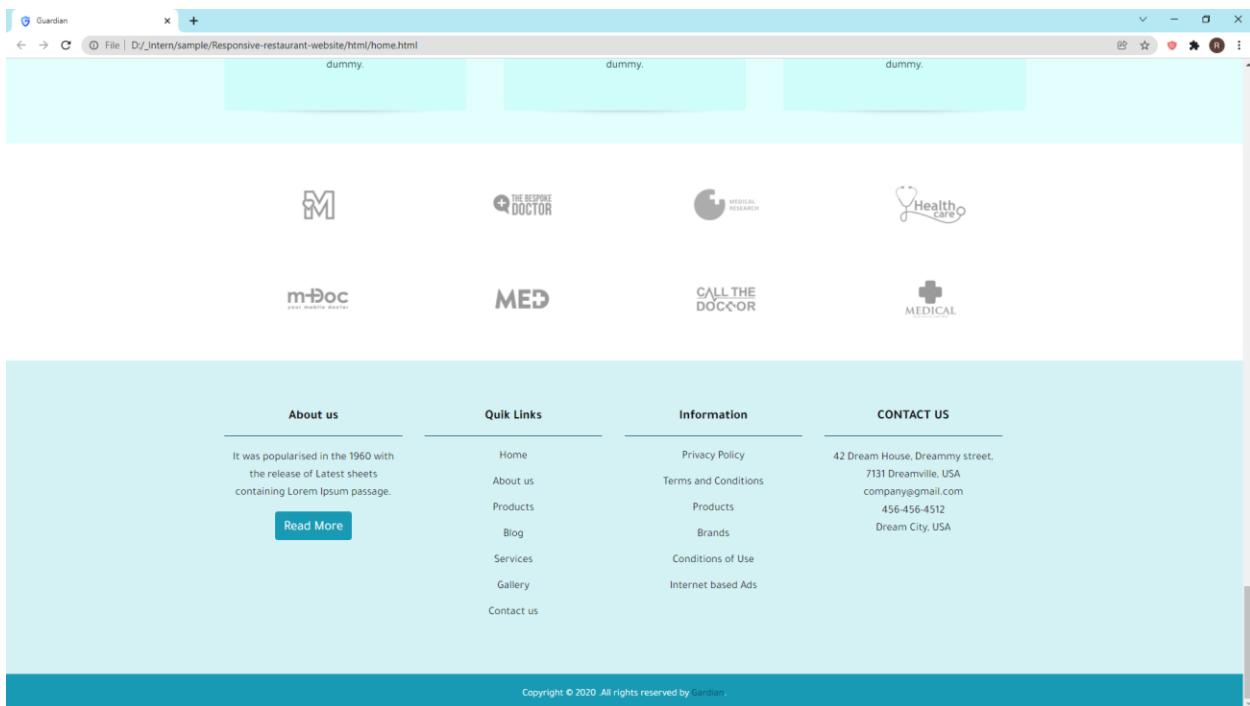


Figure 25: Home Page 5

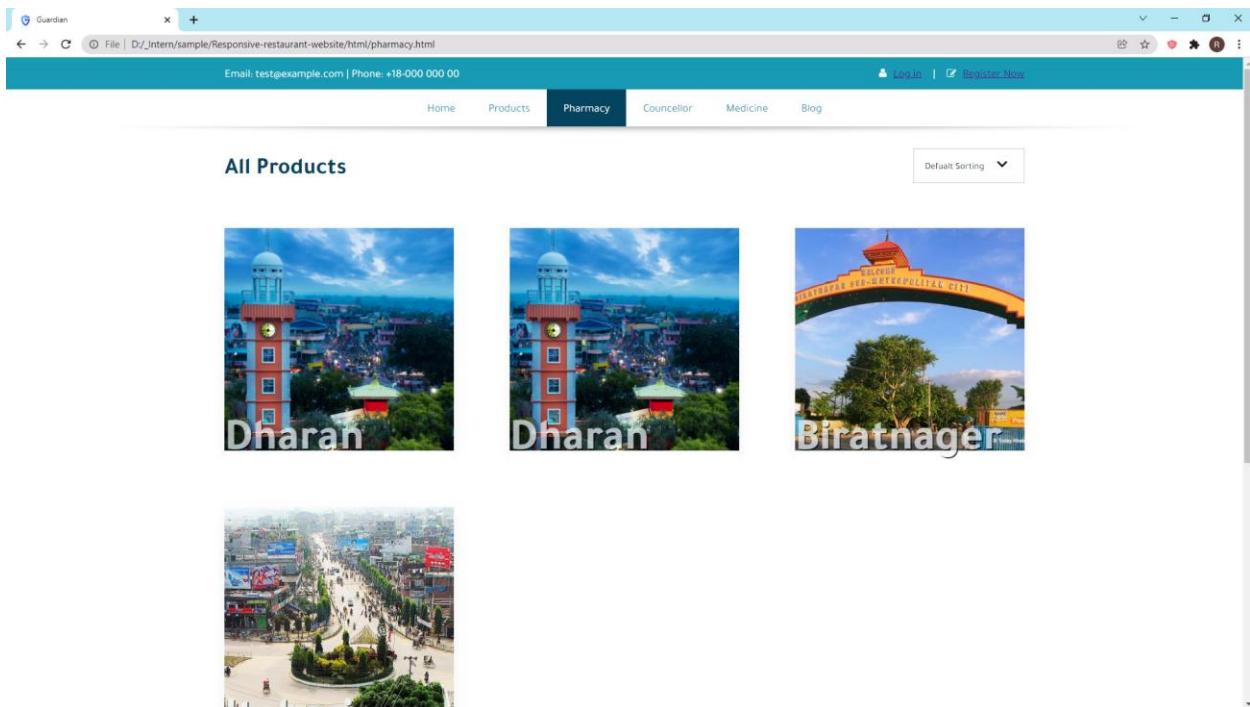


Figure 26: Pharmacy Page

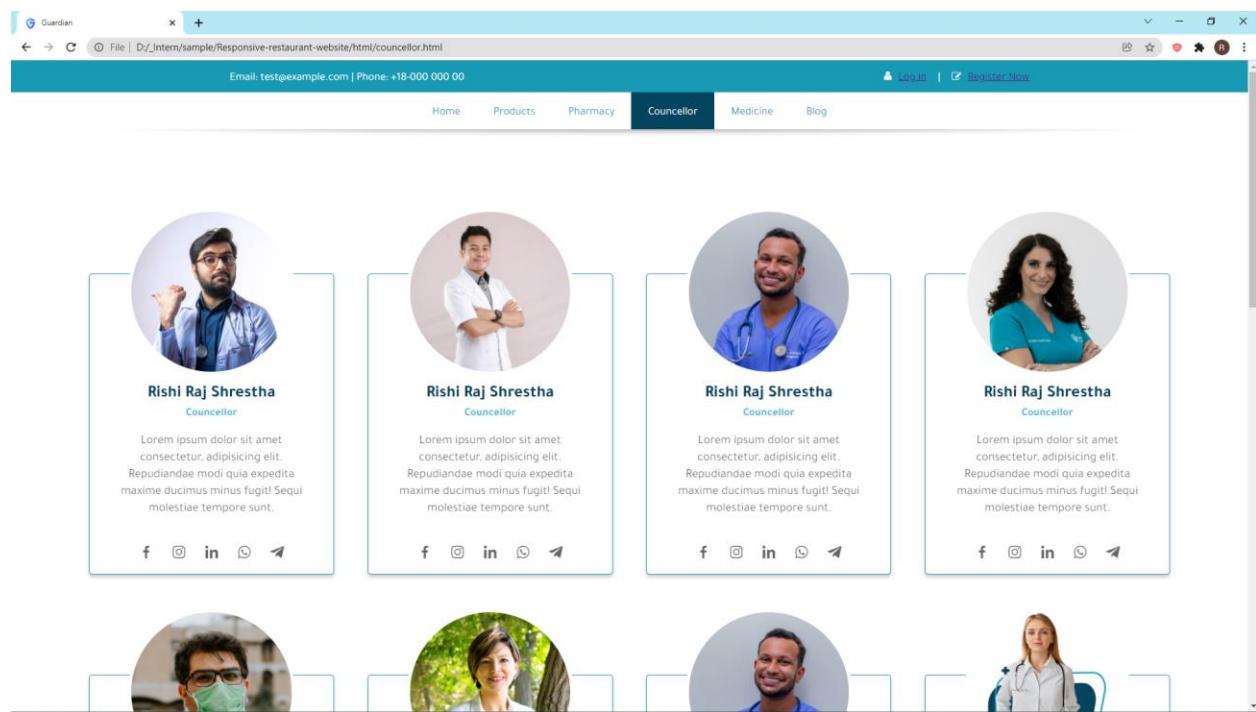


Figure 27: Counsellor page

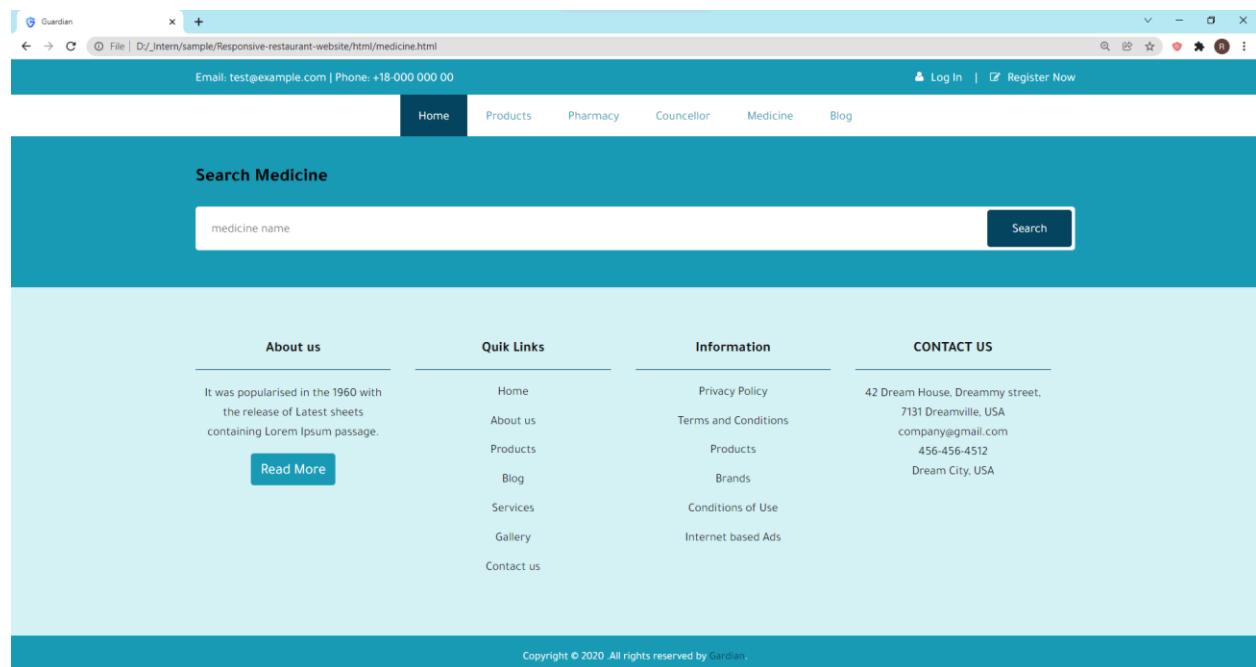


Figure 28: Search Medicine page

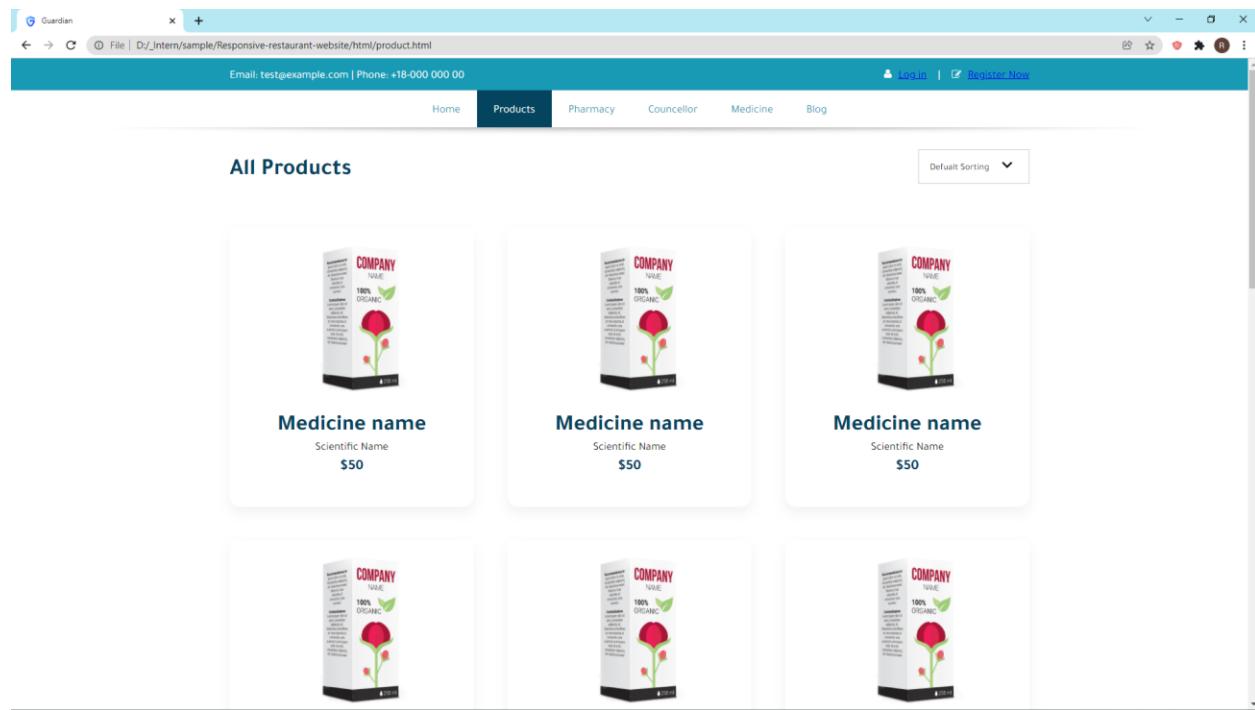


Figure 29: Product page

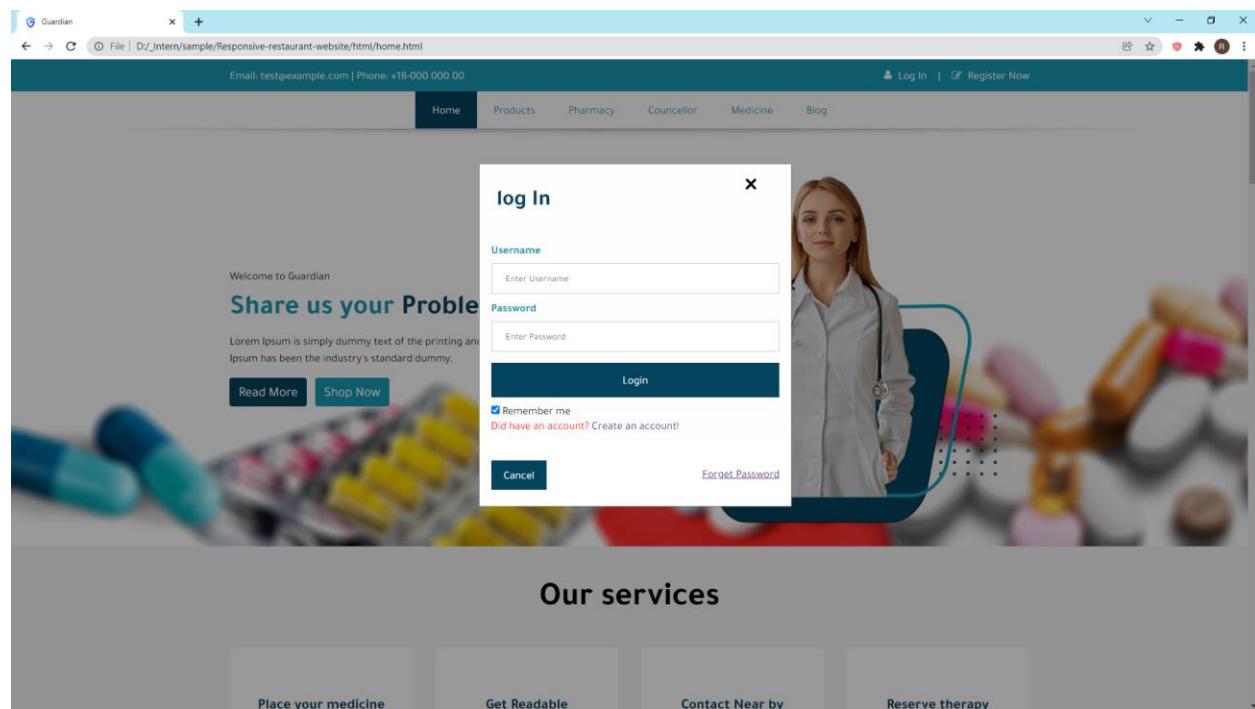


Figure 30: Log in pop up.

5. Further Work

The remaining stages of the methodology are the 4 sprint and deployment.

Every sprint goes with sprint planning, Sprint Backlog, Sprint task, testing, reviews and sprint retrospective. For the sprint 5, planning might be made to work on the user authentication and authorization. Since there are 4 different on this project research must be done regarding the use of proper libraries and framework. Most probable the rest framework might be used to implement the authentication since it is best for the Django framework. Similarly for the 6th sprint we might be working on mapping the database models to different users. For the database we will be using postgres SQL since it is helpful for both production and while working on local host.

Likewise for the 7th Sprint we might be working on CRM integration. Since the application act as a business platform for pharmacist and Counsellors its is better to work on proper customer interactions. Here, we might work on customers basic needs at that time and add certain features which will be helping the pharmacist and Counsellors to create a better marketing, sales and supports.

Similarly, on the last sprint we might be working on testing the whole application. For testing we might be using selenium as well as different testing application and tools with the need of the framework. For the deployment we will be using the free hosting services provided by the python anywhere web application.

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[Accessed 29 11 2021].

7. Appendix

7.1. Survey

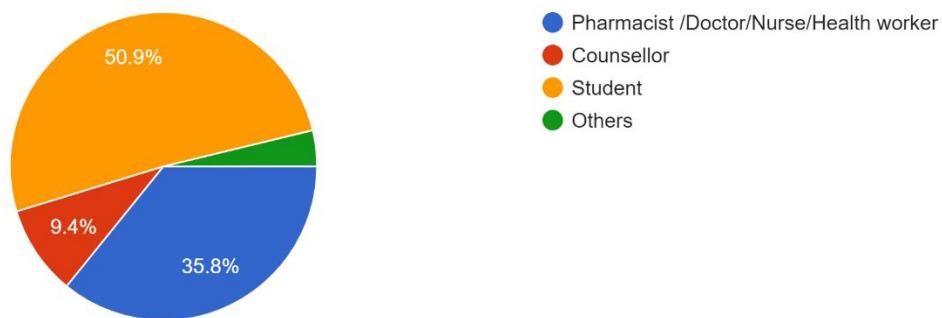
Other important questionnaires asked in the survey with their respective responses are attached below

The screenshot shows a Google Forms survey interface. At the top left, it says "53 responses". To the right are three icons: a green plus sign, a vertical ellipsis, and a blue circular button labeled "Accepting responses" with a minus sign. Below this is a navigation bar with three tabs: "Summary", "Question", and "Individual", with "Individual" underlined. On the far left, there's a dropdown menu set to "docsantosh248@gmail.com". In the center, there are navigation arrows and a page number "6 of 53". To the right are two icons: a printer and a square. A light blue horizontal bar spans across the middle of the screen. Below this bar, the word "Responses cannot be edited" is displayed. The main content area starts with a section titled "Guardian" with a red asterisk next to it, indicating it's a required field. Below this, there's a field labeled "Email *" with the value "docsantosh248@gmail.com".

Figure 31: Total Survey responses.

Who are you?

53 responses

*Figure 32: Pie chart on people's personal status.*

If you have any suggestion regarding the application, please feel free to write them below.

20 responses

Great idea on creating online platform for pharmacy.

This is a good idea

You have great idea to help people through online platform. Good job!!

It must be of different languages and easily accessible.

This project seems very satisfying, nevertheless, the AI which is going to be used in this project must be well trained with heavy data on a suitable model. Moreover, there should be means to trust the medication that user will be getting their hands on from this web app because people do not want to risk their health unless it's trustworthy. A user-friendly app with different languages will be appreciated and easy to use I might add. If there is more help needed, I am happy to help. 😊 keep up the good work. GL

Louis Rai

No

Figure 33: Screenshot of Feedbacks and Suggestions.

7.2. Wireframe

7.2.1. Home page

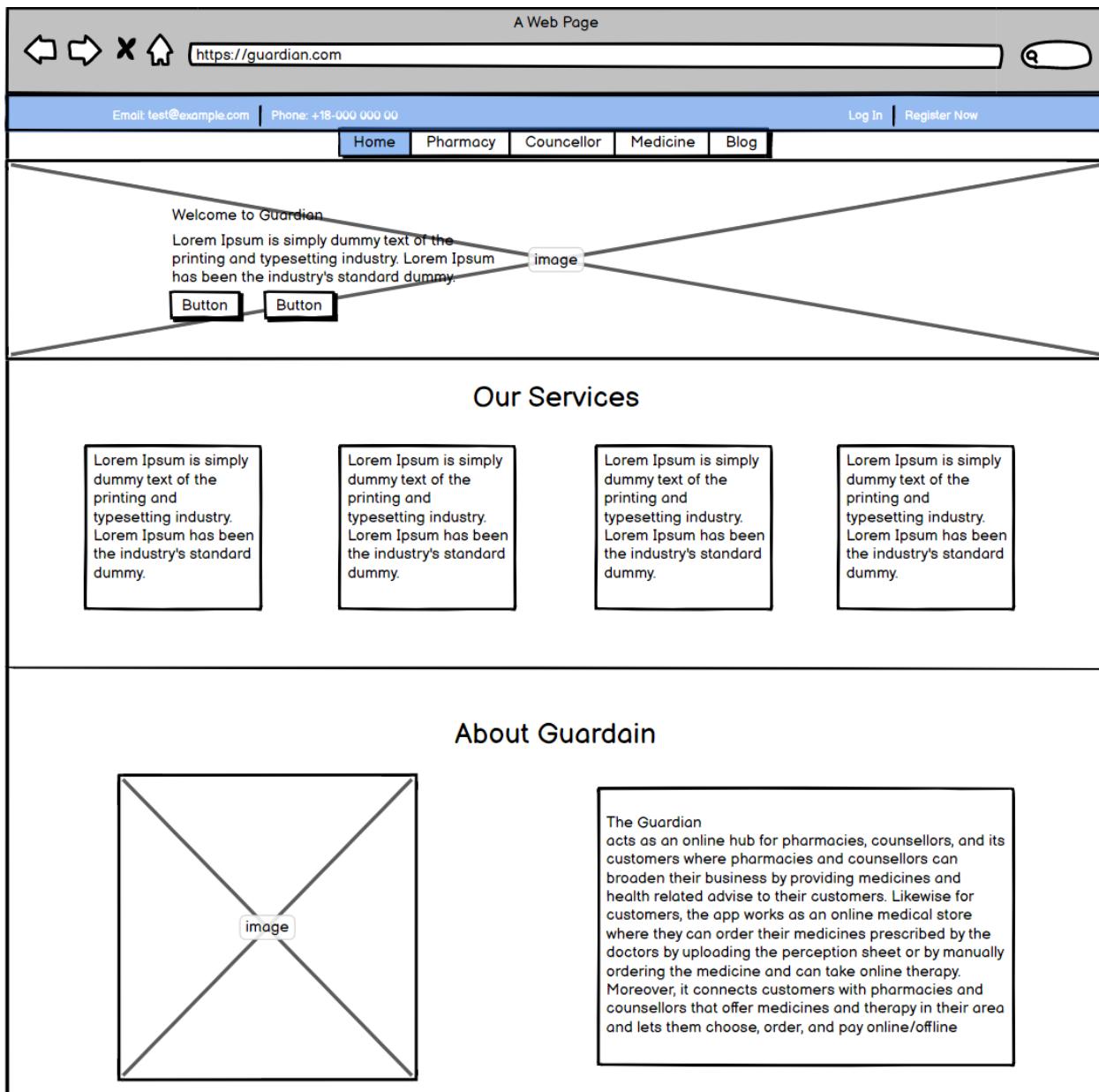


Figure 34: Screenshot of Homepage 1

The screenshot displays a user interface for a website. At the top, there is a header section. Below it, the main content area is divided into three horizontal sections:

- Latest Blogs**: This section contains three cards, each representing a blog post. Each card has a placeholder image labeled "Blog image" at the top, followed by a large amount of placeholder text ("Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy..."). A "View all" button is located below the third card.
- Subscribe to our Newsletter**: This section features a placeholder image labeled "image" on the left. To its right is a form field with the placeholder "email" and a "Subscribe" button.
- Testimoneal**: This section displays three circular placeholders, each containing the word "Image" and a row of five small "A" characters below it, representing names.

Figure 35: Screenshot of Homepage 2

The screenshot displays a website layout template. At the top, there are three identical card-like components arranged horizontally. Each card features a circular placeholder labeled 'Image' at the top, followed by the word 'Name' and a five-star rating icon. Below this is a paragraph of placeholder text: 'Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has'. In the middle section, there is a grid of eight square icons, each containing a smaller square with the word 'logo' in the center. The bottom section contains four columns of links and information. The first column is titled 'About Us' and contains placeholder text. The second column is titled 'Quick Links' and lists four links labeled 'link 1'. The third column is titled 'Imformation' and contains placeholder text. The fourth column is titled 'Contact us' and contains placeholder text. At the very bottom, a copyright notice reads 'Copyright © 2020 .All rights reserved by Gardian.' A small double-gavel icon is located in the bottom right corner.

Name ☆☆☆☆☆	Name ☆☆☆☆☆	Name ☆☆☆☆☆	
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has			
About Us Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has	Quick Links link 1 link 1 link 1 link 1	Imformation Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has	Contact us Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has
Copyright © 2020 .All rights reserved by Gardian.			

Figure 36: Screenshot of Homepage 3

7.2.2. Log in

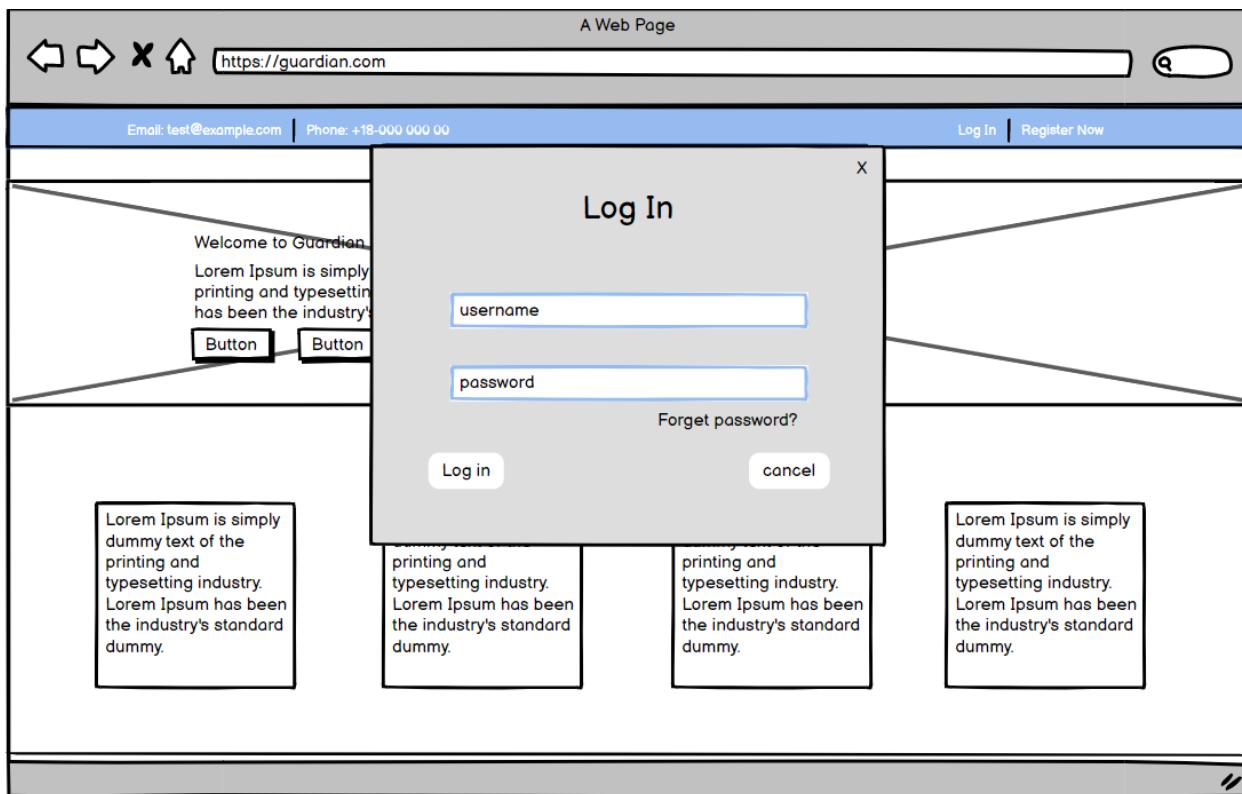


Figure 37: Screenshot of Log in.

7.2.3. Pharmacy Page

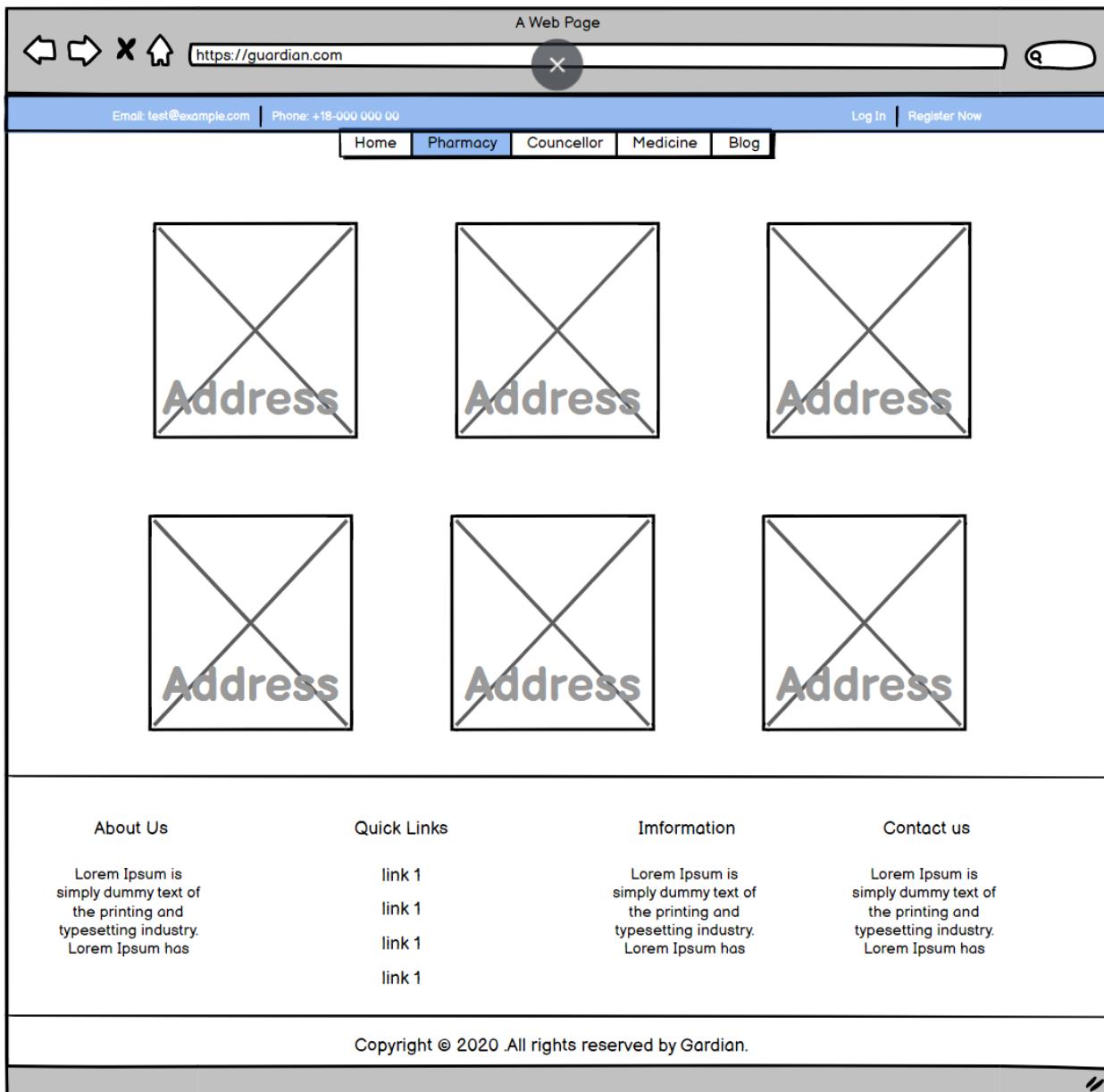


Figure 38: Screenshot of Pharmacy Page.

7.2.4. Counsellor Page

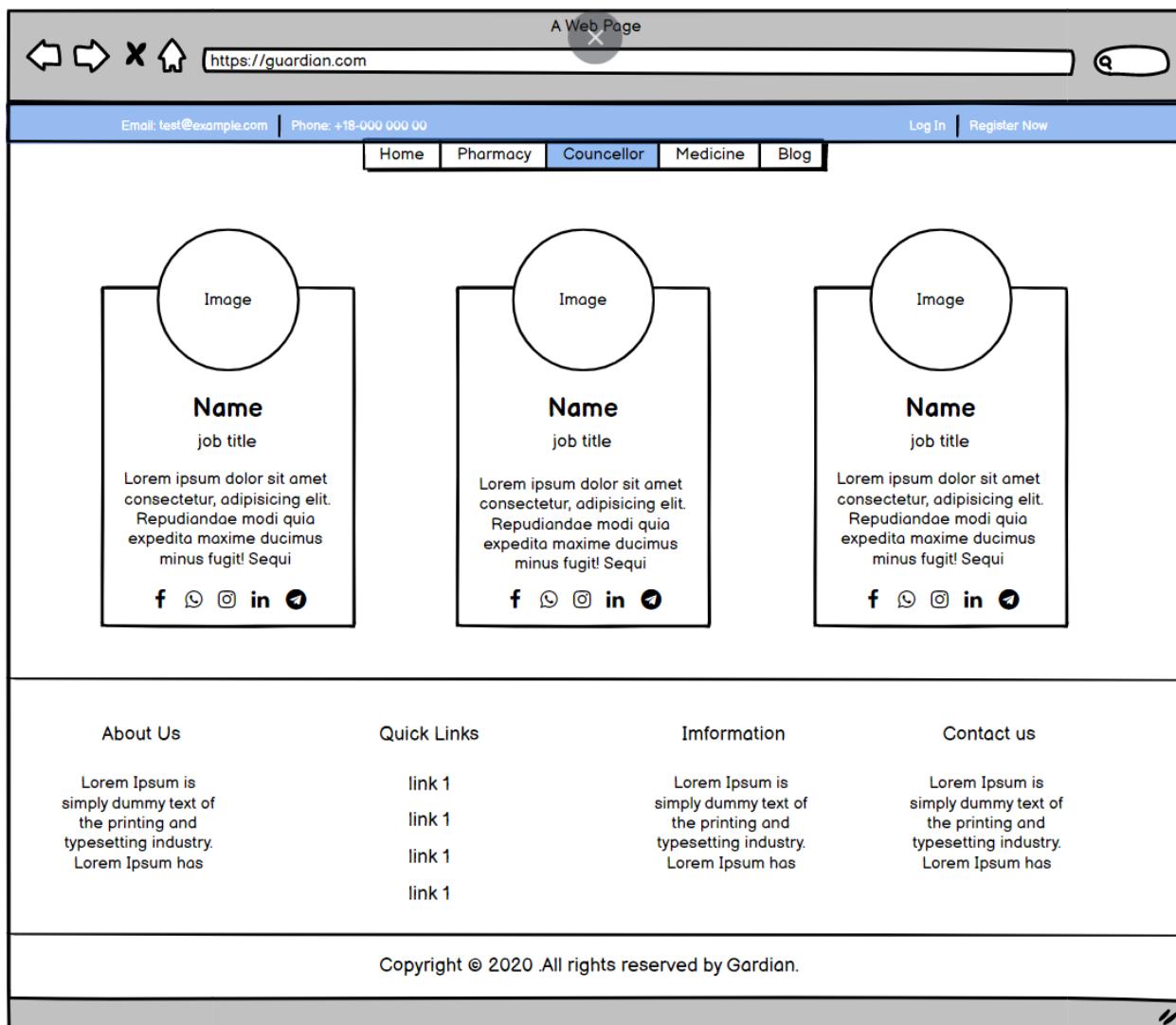


Figure 39: Screenshot of Counsellor page

7.2.5. Counsellor Details

A Web Page
 https://guardian.com

Email: test@example.com | Phone: +18-000 000 00 | Log In | Register Now

Home | Pharmacy | Counsellor | Medicine | Blog

Name

Name
position

+977 - 98-1234-234
test@gardian.com

Book Appoitment

Specialty

Degree

Training

Working

About Us
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s.

Quick Links
link 1
link 1
link 1
link 1

Information
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s.

Contact us
Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s.

Copyright © 2020 .All rights reserved by Gordian.

Figure 40: Screenshot of Counsellor Details page.

7.2.6. Search Medicine Page

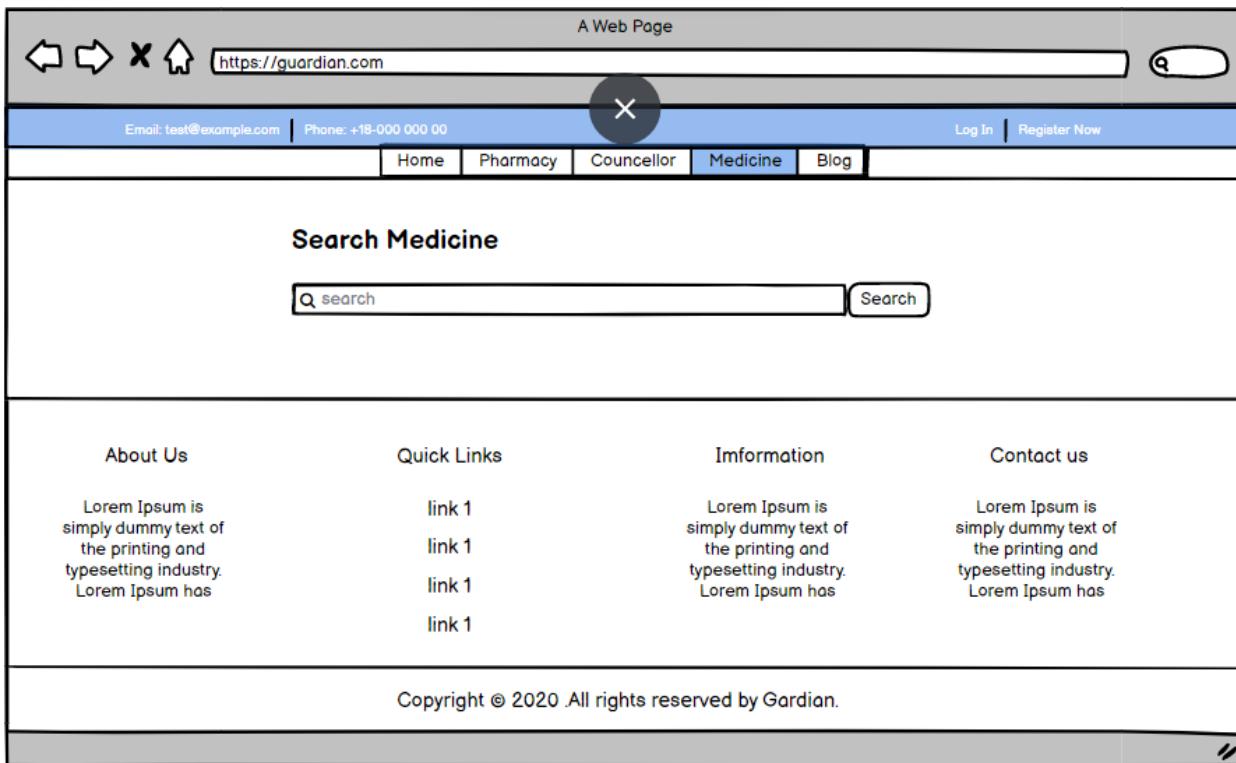


Figure 41: Screenshot of searching medicine page.

7.2.7. Medicine Details page

A Web Page

<https://guardian.com>

Email: test@example.com | Phone: +18-000 000 00

Log In | Register Now

Home | Pharmacy | Councillor | **Medicine** | Blog

Medicine

Name of Medicine

Common name

Lore ipsum is simply dummy text of the printing and typesetting industry. Lore ipsum has been the industry's standard dummy. Lore ipsum is simply dummy text of the printing and typesetting industry. Lore ipsum has been the industry's standard dummy.

Lore ipsum is simply dummy text of the printing and typesetting industry. Lore ipsum has been the industry's standard dummy. Lore ipsum is simply dummy text of the printing and typesetting industry.

About Us

Lore ipsum is simply dummy text of the printing and typesetting industry. Lore ipsum has

Quick Links

link 1
link 1
link 1
link 1

Information

Lore ipsum is simply dummy text of the printing and typesetting industry. Lore ipsum has

Contact us

Lore ipsum is simply dummy text of the printing and typesetting industry. Lore ipsum has

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Figure 42: Medicine details page

7.2.8. Blog Page

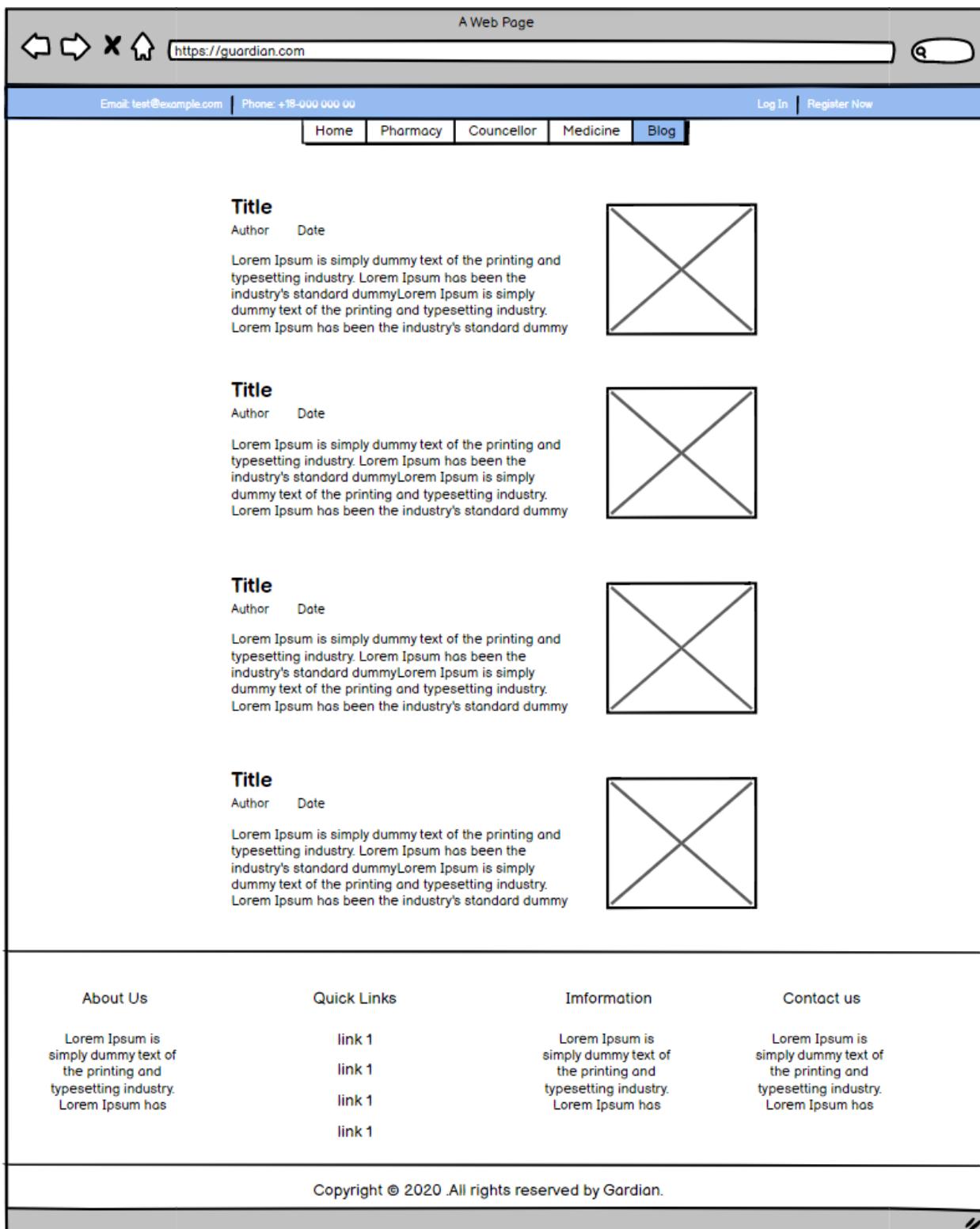


Figure 43: Screenshot of Blog page.

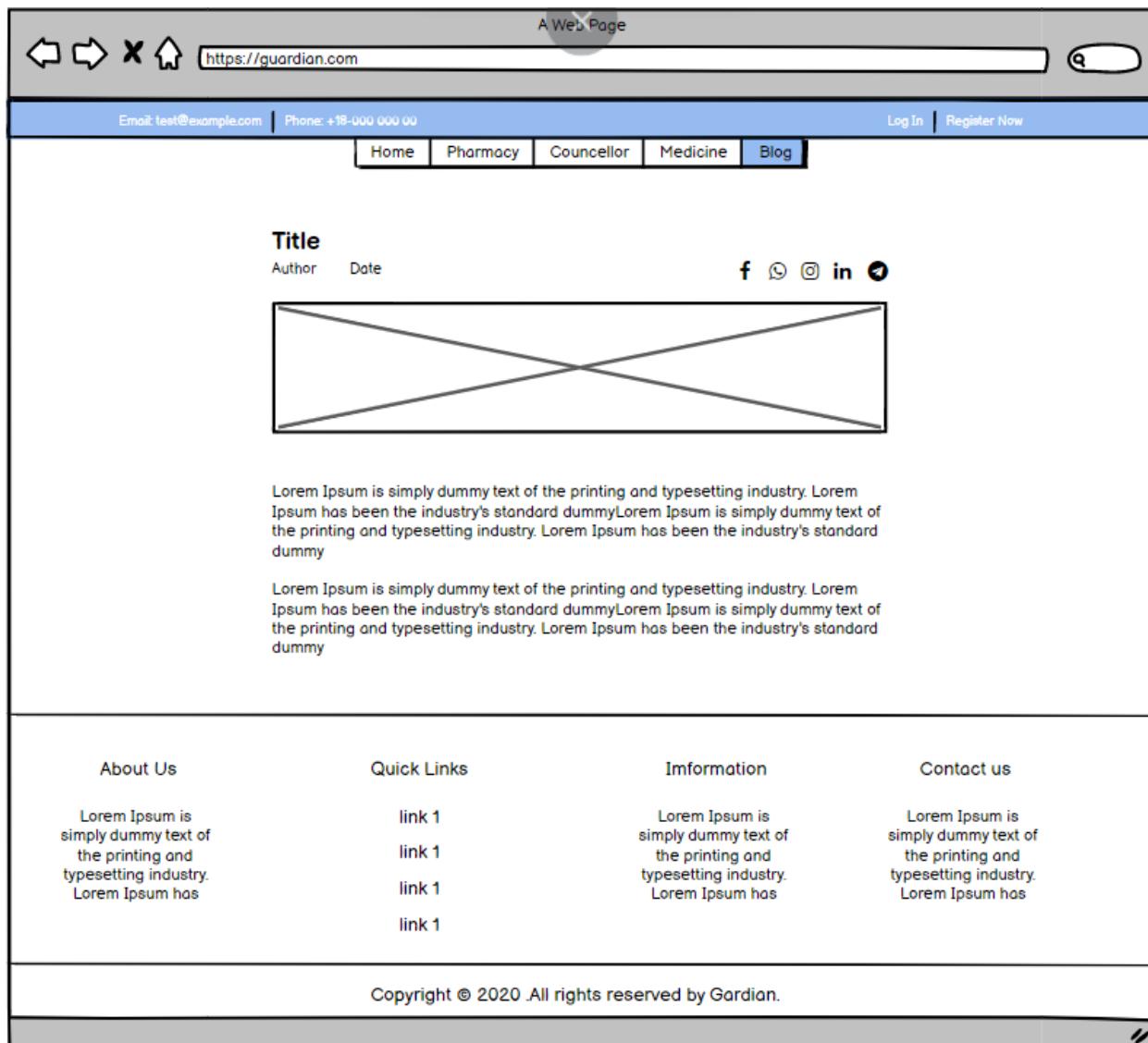


Figure 44: Screenshot of Individual Blog Page.

7.3. Gantt Chart



Figure 45: Gantt Chart

7.4. Work Break Down Structure

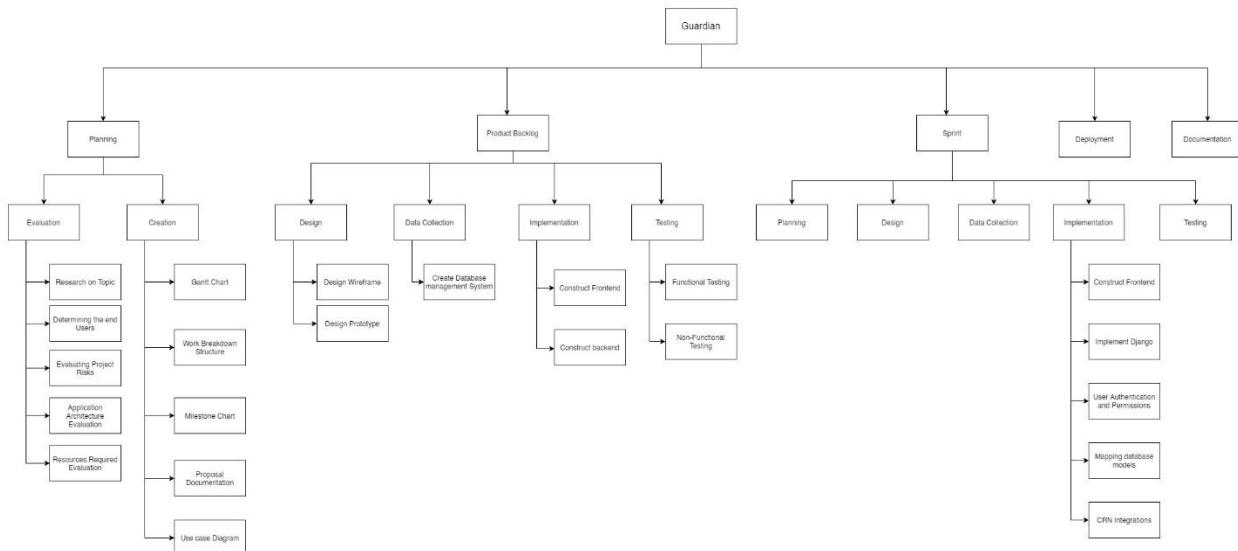


Figure 46: Work Breakdown Structure

7.5. Software requirement specification (SRS)

7.5.1. Introduction

7.5.1.1. Identification

The software described in this document is currently called pharmacy management system and is here referred as the PMS. The name might change later.

The first release of the SW is projected to have the version number 1.0. This document is to describe its functionality.

The version of this document is 0.1

7.5.1.2. Document Conventions

This template is fetched at https://web.cs.dal.ca/~hawkey/3130/srs_template-ieee.doc.

Defined terms are highlighted with bolding.

Requirements will come with priority to indicate in which order they will be implemented. Versions might be released with only some of the total list of requirements implemented.

7.5.1.3. Indented Audience and reading Suggestions

This document is written for users and supervisor of the system and as well as software developer to clarify the function and look of the software. Also, people using results might have wishes for functionality.

7.5.1.4. Product scope

(I need some input on why the surveys are performed, who wants them)
The PMS is an ecommerce site were the pharmacies uploads their medicines data and costs and the customers buys them through website. The software runs via web browser where the system provides pharmacy to enter their medicines data, the PWS can handle different users, manage their personal details, provides them an interface to buy medicines and order them according to their described prescriptions.

7.5.1.5. References

https://web.cs.dal.ca/~hawkey/3130/srs_template-ieee.doc

7.5.2. Overall Description

7.5.2.1. Product Perspective

The product is supposed to be an open-source application. It is a web-based system implementing ecommerce model. The System provides interaction between the customers, counsellors and pharmacists.

The following are the main features that are included:

Cross platform support: Offers operating support for most of the known and commercial operating systems.

User account: The system allows the user to create their accounts in the system and provide features according to their roles.

Number of users being supported by the system: Though the number is precisely not mentioned but the system is able to support a large number of online users at a time.

Search: search is simply local search engine based on key words.

7.5.3. Product Functions

7.5.3.1. Customer

- The customer shall be able to view different medicines
- The customer shall be able to rate pharmacies
- The customer shall be able to place order
- The customer shall be able to upload prescription
- The customer shall be able to search medicines with different filters
- The customer shall be able to share their location
- The customer shall be able to view their invoice
- The customer shall be able to view different counsellor
- The customer shall be able to book therapy session.

7.5.3.2. Pharmacist

- The pharmacist shall create their own pharmacy details.
- The pharmacist shall be able to upload images and add different medicines into their medicine.
- The pharmacist shall be able to view customers feedbacks and requests
- The pharmacist shall be able to view customers requested location.

7.5.3.3. Counsellor

The counsellor also has the same functionality as normal customer but the counsellor: -

- The counsellor shall be able to create counselling portal.
- The counsellor shall be able to upload their documents.
- The counsellor shall be able to view customers' requests.
- The counsellor shall be able to upload their visiting time.
- The counsellor shall be able to conform customers sessions.

7.5.4. User Classes and Characteristics

There are three users of the PMS software:

Pharmacist must be able to administer their store webpage but should not need special experience.

Customers need no experience to use the webpage and need no experience to access the information available to them

Counsellor must be able to administer their personal schedules that is stored in webpage but should not need experience to access the information available to them.

7.5.5. Assumptions and Dependencies

Dependencies:

Python

Django 3.2

Postgrase

Html, css and js

7.6. External Interface Requirements

7.6.1. System Interface

Any popular operating system that will allow the use of a modern browser to view and download web pages

7.6.2. User Interfaces

Logical Characteristics: The GUI of the product shall be designed in HTML/Python, allowing a multitude of different user's access. The HTML design will remove most limits of access because every popular operating system has HTML viewing capabilities.

Aspects: The system shall have content that will only be viewable to the user if they are logged in correctly. Also, there shall be different types of users having different accessing/viewing/modification privileges.

7.6.3. Hardware Interfaces

There are no hardware interfaces to this system.

7.6.4. Software interfaces

Web browser

7.6.5. Communications Interfaces

Internet Protocol (IP) shall be used by the software interfaces to connect to the internet.