

WEB BASED ONLINE DOCTOR CONSULTATION PROVIDER BY

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

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APPROVAL

This Project/internship titled "Online Doctor's Consultation Provider", submitted by Name, ID No: 181-15-11045 Student ID 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 *date*.

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We hereby declare that this project has been done by us under the supervision of **Dr. Md. Tarek Habib, 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 the award of any degree or diploma.

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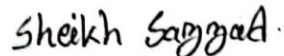


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ABSTRACT

The Web Application of Diseases analysis and give treatment is used to extract knowledge from e-commerce. The web application has become the root of emerging business or commercial websites. The growing number of e-commerce websites has put users in turmoil to search for sites to purchase a specific help of interest with the best price and quality the document describes an overview the web system which increases user experience. The website allows online users to analyze doctor qualification. The main objective of this project is to develop a system for giving best doctor treatment web application. This project was designed to make the process easy and quick, which is not possible with automatic systems that are overcome by this software. This project was developed with front-end HTML, CSS, JAVASCRIPT, and back-end NodeJs, Firebase, MongoDB. Creating and managing requirements is a challenge for IT, system, and product development projects or for any activity where you necessary to manage the contractual relationship. In the project people will find top categories doctor and can take treatment also get electronic prescription. It studies other related systems and then creates system specifications. The system is then designed according to the specifications to meet the requirements. The web application system deals with data entry, confirmation, update, and deletion, while the interactive system deals with system interaction with administration and users. There is also a community system where users can post experiences there. Thus, the above functions of this project will save the user time, user will also save money on the efficiency of the system. Poor people will take free service from the fund of our project.

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CHAPTER- 01

1.1 INTRODUCTION

AmarDoctor is an online medical service aimed at rapidly digitizing emerging markets. Our mission is to improve the health and well-being of those we serve. We have developed accessible and affordable telemedicine services aimed at supporting public health systems, research, and clinical trials. This web-based work is a way to compare prices for different types of products. Given that someone gets therapy from an online platform, go to another of her websites. Many people find fake online doctors annoying and need to update themselves to choose the right treatment. In order to promote online treatment, we are doing this project. increase. Full-fledged treatment has become the main theme of online medical treatment. We strive to bring together different types of doctors. Many people are facing these issues and we have worked with several native websites for that. This website allows you to get treatment for various ailments directly at reasonable prices. Such platforms are very important for Bangladeshi people to gain confidence in online health checkups. Nowadays, people prefer online therapy as most people use smart devices such as tablets, mobile phones and laptops to access this kind of website.

Along with this shrinking meaning, online therapy as a whole is growing rapidly. The growing number of websites has increased the interest of online users in finding the best doctors for the right disease. Telemedicine continues to grow, but some issues are the price comparisons of treatment prices for individual treatments displayed on his website for different hospitals. Therefore, it is difficult for the end user to get all the prices at once and make a decision. To overcome these problems, web-based projects (web applications) use product analysis and web mining. This allows an online user to analyze treatment website prices in one place. The main task of this project is to retrieve data from the hospital site. Although many websites list the best doctors, people can also search various websites to find a doctor at a low cost. Telemedicine is a major project for our country because of our congestion. Thousands of hours are wasted every day in traffic jams.

1.2 Objective

Amar doctor's mission is to improve the wellbeing of the populations that we serve. Improving access and quality of care is at the centre of everything we do. We are inspired by working with the doctors and scientists who are leading public health research, and DocTime aims to make a difference to their work.. AmarDoctor is vertically integrated with pharmacies/ medicine delivery suppliers, labs/ diagnostics centres, and payment providers for an end-to-end digital health experience. AmarDoctor systematically focuses on expanding access to affordable healthcare services to all. We promise to improve our solutions continuously through our scalable technology and data analytics capabilities. Our passionate team is committed to excellence and work extremely hard to ensure we make a positive contribution to the healthcare of the future.

- Our goal to access any GP or specialist doctor you need at anytime from anywhere
- Access to online prescriptions, medicine delivery, and tests and diagnostics
- Easy subscriptions to protect you and loved ones health and wellbeing

1.3 Motivation

AmarDoctor offers on-demand GP and specialist consultations with verified and certified doctors, online prescriptions, medicine delivery, pathology/ diagnostics tests, all while building valuable Electronic Health Records. Most of the time, it is difficult for people to choose the best doctors from different website and educational qualification of a doctor,because they do not know about the doctor qualification in details. Many times, we see similar doctor being given service by different websites at different prices. Many of us are confused about the higher price, and we take the product at a higher price than the original price of any test which doctor had given. And to check this extra price, we visit various websites. This wastes our time and makes it difficult to verify the specialist properly. To solve this problem, we have here all the good deals of all types of specialist. This will allow us to make the right decision and take the treatment in a very good way. This will save you both money and health

1.4 **Expected Outcomes** The expected

outcome of the

project is the price of the facilities included in the system. With a main drain pipe, users can easily find the best way to handle it. We also have a user community where buyers can voice their opinions and provide feedback on quality of care, pricing and service. People in our country are becoming more and more dependent on online healthcare. Under these circumstances, many medical services have been established in our country. Many online health services have reputable activities. However, many of these customers are faced with logging services. There are many health services that charge exorbitant prices for their services and provide low-category services. Patients are deceived. Again, there are many websites that offer products at fair prices. You'll need to open a new website tab to see them. This makes it difficult to find a suitable original professional. To solve this problem, users can visit our her website to get the best service at the right price.

- Provide the best user experience on the AmarDoctor website. People can seek out a doctor and get immediate advice.
- People love and care about your website

1.5 Research Question

It was quite difficult for us to complete this assignment and come up with multiple research topics. must respond to the following inquiries to succeed. We focus on this focus following question and try to solve this.

- Which type of information or data need to encrypt?
- How complicated key do we use?

1.6 Report Layout

There are 6 chapters in this report and everywhere discuss different aspects. In this section we summarize this:

Chapter 1 discussed the introduction, motivation, objectives, research questions, or future output of the study.

Chapter no-2 provides the discussion on the background of the work as well as covers related works, comparative thinking, scopes, and future work.

Chapter no-3 discuss the methodology of the project and require equipment and software to implement the project.

Chapter 4 provides the overall results of the project and proof of the result and also describes the discussion of the study.

Chapter 5 discuss the impact of the project on society, the around us, ethical aspects, and the sustainability idea.

Chapter 06 presents the conclusion or summary of the project.

CHAPTER- 2 Background Study

2.1 Preliminary Observations/Terms

Physician expectations are expected to increase as modern medicine enables people to live longer. But thanks to technology, there are ways to contact your doctor without going to the clinic. Get the health care you need with an online consultation with a doctor. You don't have to travel to get treatment from an expert in any specialization. Reportedly, 36% of Americans look up their disease type online. Online doctor consultation is an affordable solution to your medical needs. You don't have to go to the doctor to get an e-prescription. Electronic prescriptions are available at your local drugstore or directly at home.

- Provide the best user experience on the AmarDoctor website. People can seek out doctors and get immediate advice.
- People love and care about your website

2.2 Related Works

The Online doctor and consultation and hospital industry is increasing day by day. One its reasons for company increase is best consultation if patient located anywhere. It offers the same opportunities for both online and physical patient. There are many kinds of online consultation company in the world like DocTime, Tonic, Praava Health, Doctorola Limited, Doctor Dekhao, iCliniq, Dobtor Comes Home, Sebahor, Seekmed etc. We tried to develop such a system for rural area of BD. For a result, the poor prople of village area will be more wihsful to take online treatment from specialist doctor.

2.3 Comparative Analysis

In the field of online doctors and telemedicine, many medical researchers and analysts use keys to develop methods for optimal treatment. Various key lengths and strategies have been suggested by each practitioner in the health system. Compare doctor qualifications from many websites and the results are displayed in a single web interface. In addition, the system allows users to view and compare before claims for each disease or diseases of the same category. The system allows access to the original girlfriend website where a particular doctor selected the user as the best expert.

Feature	Existing model	Proposed model
Authentication	Yes	Yes
Integrity	Yes	Yes
Time Complexity	High	Low
Complexity	High	Low
Implementation	Web	Any platform and system

Table 2.3.1: Comparative analysis between two model

2.4 Scope of Issue

In some areas we are facing great difficulties. I expected to do this web scraping. But here I can't influence the server side. The system was originally designed as a system where several doctor categories were added based on the price of the doctor's appointment. Currently this is done manually. For this reason, it is necessary to check the consultation fee on a

regular basis. Most of the time you need some speed for that, so users often have a hard time figuring out the exact price. Updating.

2.5 challenges

We know that people in Bangladesh are becoming increasingly dependent on online doctor consultation. Many people face some special problems when taking online treatment. Many people are bad thoughted about the right price and purity of the treatment. Our main goal was to make users interested in doctor consultation online. We wanted to make a system where the people could easily get the doctor he needed and accurately verify its price and quality. To do this we have to work with different websites. It is a system where many types of consultation will be connected and their service can be verified. Different consultation offers different offers from time to time but many people are not aware of this offer. When someone enters our system, they will be aware of the various offers and will be able to purchase at a lower price. We wanted to do this in our system with an automatic update system, but for some website limitations, it was not possible to collect their data. For which we have to do this work general way. We hope that this system will benefit many patient and we have tried to prepare our system UI easy to use.

CHAPTER 3

REQUIREMENTS – SPECIFICATIONS

3.1 Business Process Model

Encryption is the study of secure communication techniques that ensure that only the sender and intended recipient of a message can view its contents.

We used encryption to protect user data and created an unfavorable transaction model. As this research follows "Secure Short Message Transactions Based on AES Algorithm", our goal is to provide a secure and secure method for data transactions in the digital world. This document used the symmetric key-based AES algorithm. A symmetric key algorithm uses the same key K to perform the encryption and decryption process. Generate ciphertext from plaintext. I used JavaScript to implement the AES algorithm and used other tools as well. Develop a mockup containing a web application to demonstrate the system.

3.2 Requirements Registration and Treatment

- Admin Login
- User

- Admin Can Change Own Password
- Admin Can Change Own Information
- User Can Register Community On Site
- User login
- Usage can change password
- User can change his personal data
- Update offer summary
- Choose a doctor to receive treatment

3.3 USE CASE MODELING

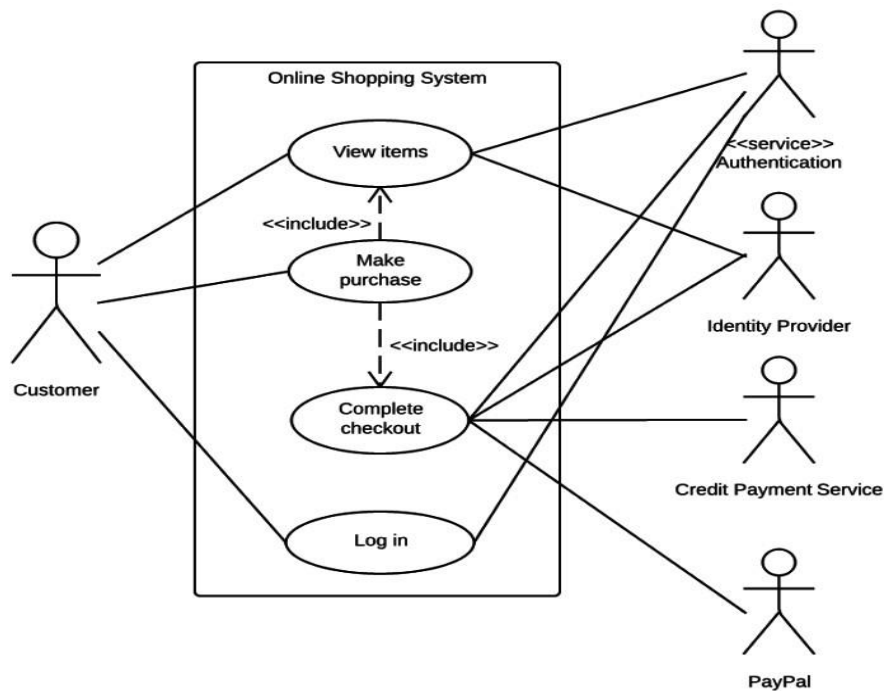


Figure: Use Case Diagram

3.4 LOGICAL DATA MODEL

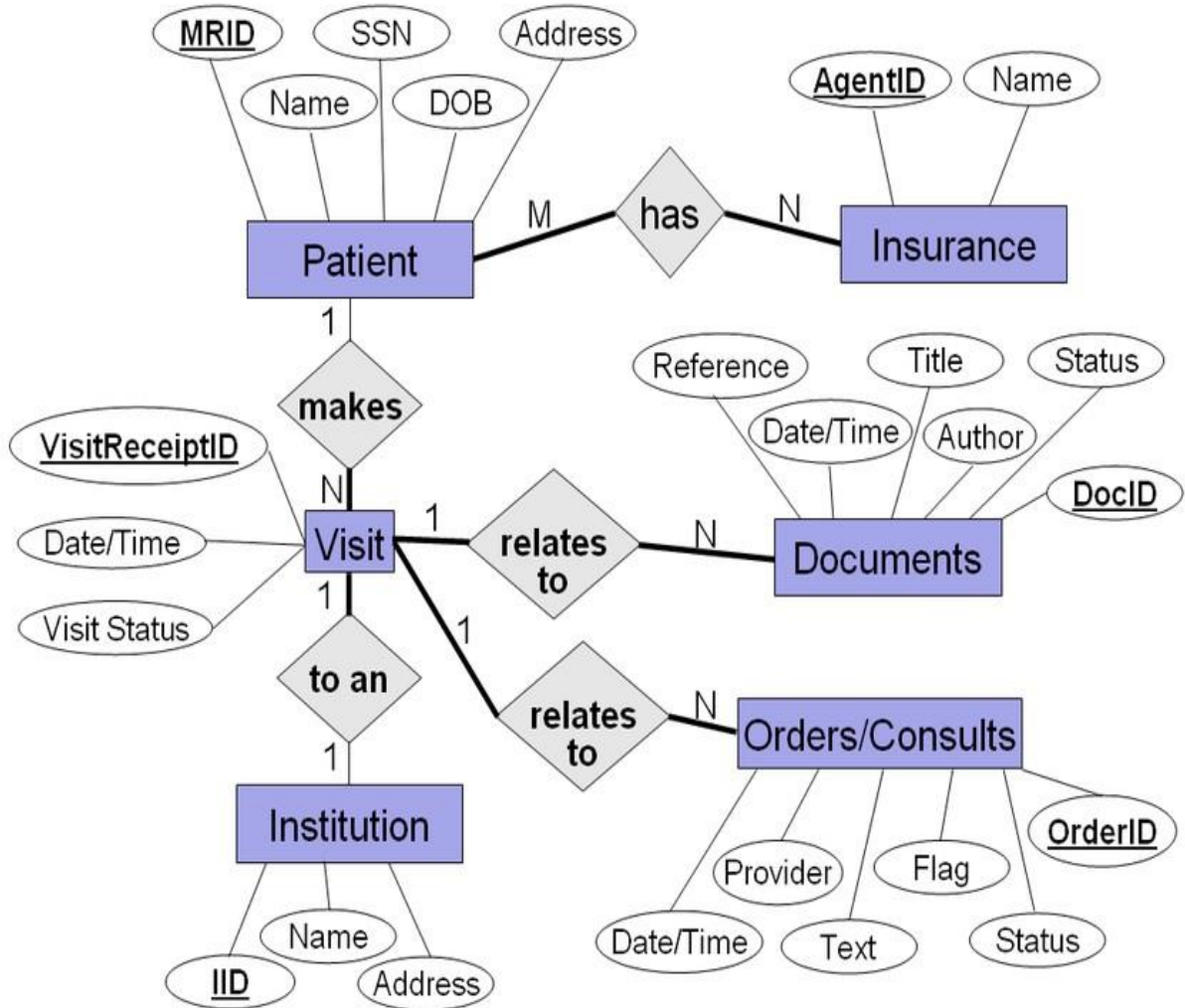


Figure: Logical Data Model

3.5 DESIGN-REQUIREMENTS

Table 3. 1: Login-Requirements

Name of use Case	Login Information system
------------------	--------------------------

Actor-Sharing	Administration and Users, e-commerce system.
Conditions for events	Actors can enter the system using usernames and passwords. Required permissions are checked.
Access to Conditions	User sign-in information system with specified actor and password at any time.
Community	User can create new post and they gave feedback.
Demands for quality	This security code madness meets the complexity requirements of this project.

Table 3. 2: Administration requirement registration-form

Name of use Case	Administration Registration
Actor-Sharing	Administration
Conditions for events	User can share their experience
Conditions of entry	User logins and passwords for named actors are always available.
Conditions for Departure	It should be coming without approvals from authorized persons.
Demands for quality	The password meets the complexity of requirements of our project

3.2.3 Key Management

As a patient, it is important to find the right specialist for your condition, schedule appointments, and facilitate diagnostic procedures and payments. In your current state, you no longer need unnecessary stress pills. Whether in person or online, we want you to be treated in the best possible way, especially when it comes to your health and wellbeing. To meet your needs, medical facilities that offer online consultation services also need a full roster of professionals who can answer your specific health issue. Sources should be used to ascertain how diverse the expertise of a particular institution is. If not, you'll have to find another clinic that has a doctor you need to talk to about your health concerns, adding friction to the consultation process.

3.3 Implementation Requirements

Implementing this model needs programming language environment, and also need programming language for implementing the algorithm. Required some instruments to complete this task and below list of the necessary component and equipment, we used in this work.

Developing Tools and Language:

- Visual Studio
- JavaScript
- HTML
- CSS

Hardware/Software Requirements:

- Operating System- Windows
- Google Chrome

CHAPTER - 4

4.1 Experimental Design

Although most patients did not express a preference for computer use in the clinic, computers appeared to have a positive effect on overall satisfaction with physician visits. . Physician attitudes toward computer use influenced patient preferences.

4.2 Front-End Design

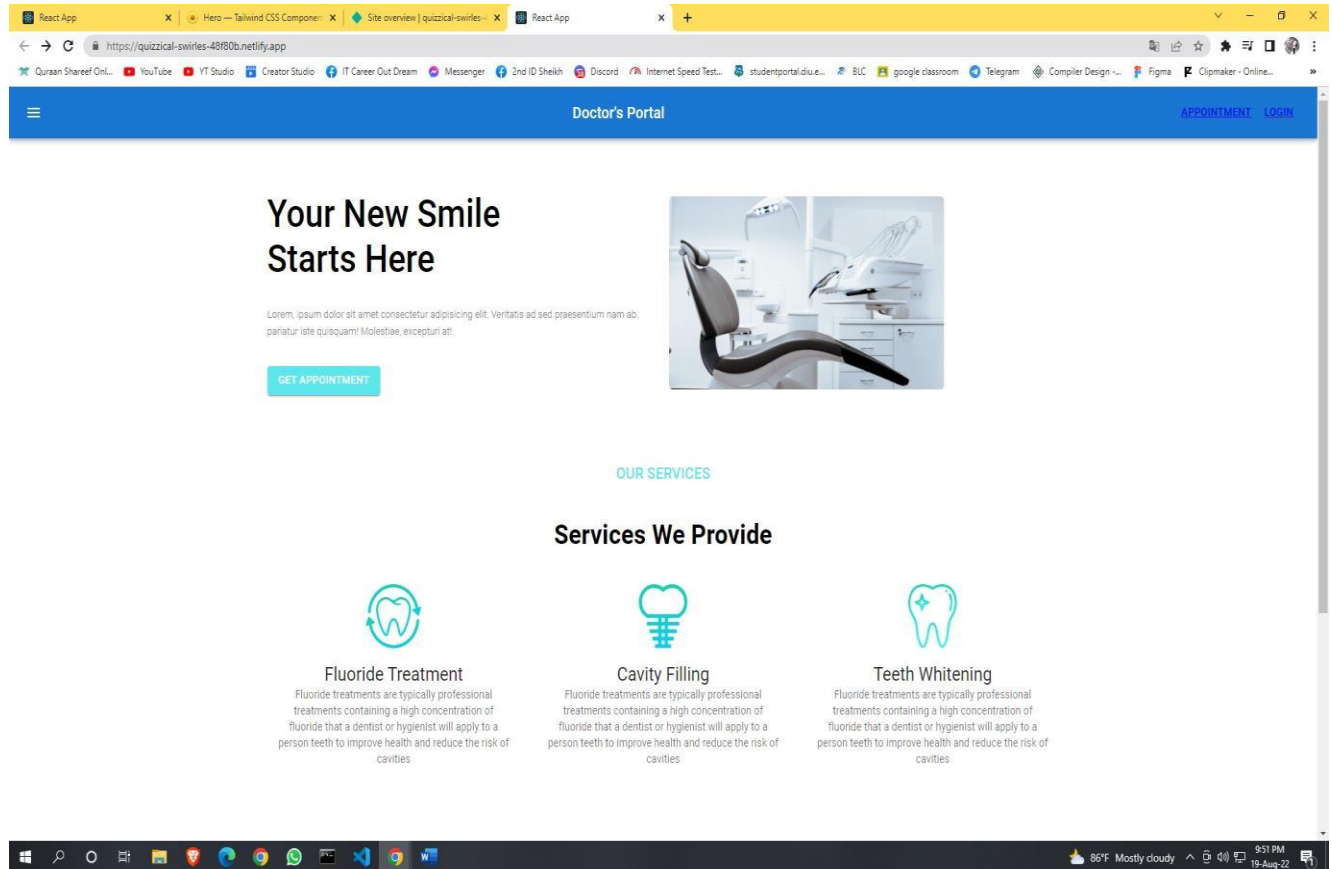


Figure 4. 1: Web Home-Page Design

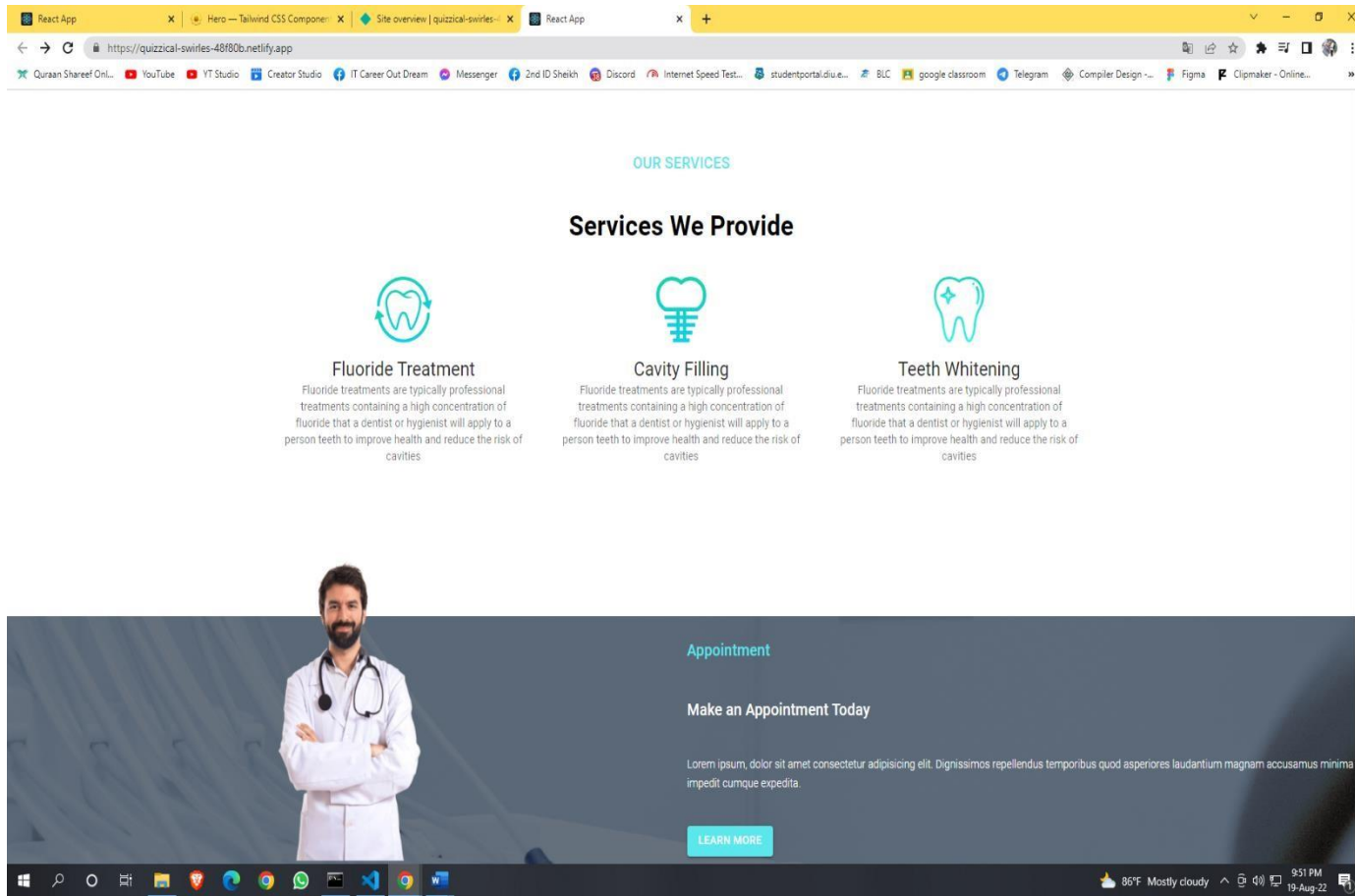


Figure 4 .2 .1: Showing Home Page Service

Some Attractive Features are coming soon.

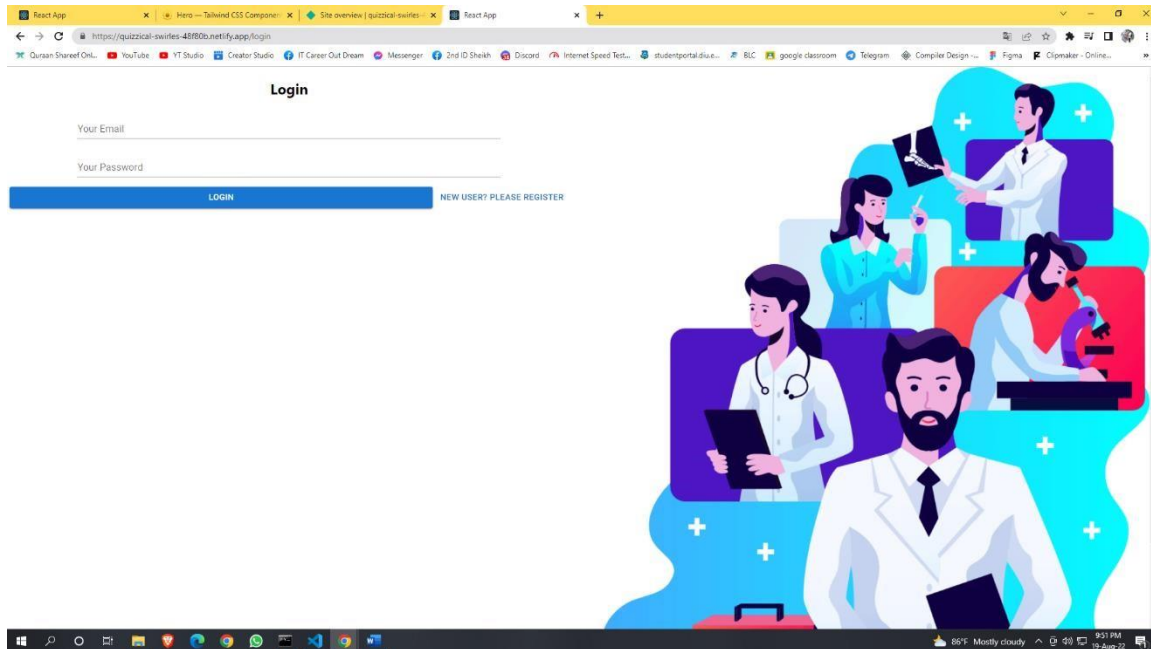


Figure 4.2.2: Community System and Login System

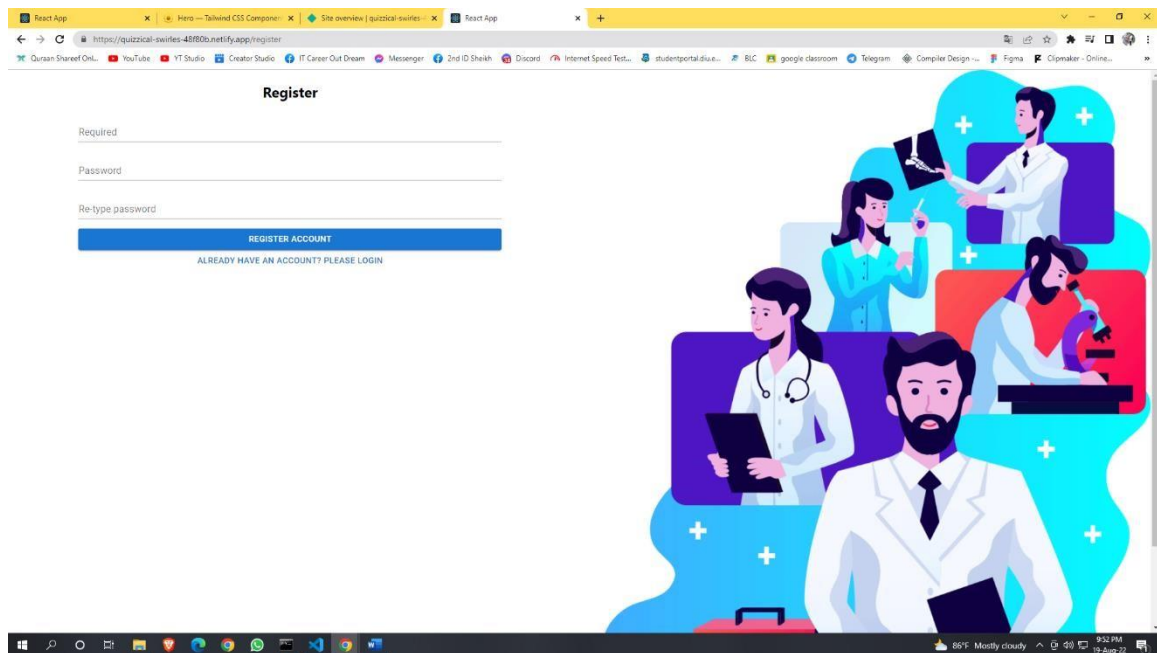


Figure: System Registration

4.3 Implementation Requirements

In today's digital age, customers want everything online and fast. B. Online shopping, online tickets, online booking scheduling. With the advent of the internet these days, online booking has become easier for a variety of purposes. To be precise, online bookings for the medical industry are making the rounds. Most people expect medical care to be provided as soon as possible without significant delays. With today's fast-paced work schedules, most people are likely juggling multiple schedules from home to work, going to the doctor's office/hospital, or making a phone call in case of extreme need. I find it very difficult to make appointments with my doctor. Medical services that get you. This traditional method of booking an appointment with a doctor is inconvenient for people in need of hassle-free medical services as quickly as possible. One of the best ways to do away with traditional booking methods is to book online in a few easy steps [6]. So, in this article, we'll look at different parameters that actually help you get some benefits from online doctor consultation systems. It also implements an online physician consultation system using the RAD methodology. The following literature review presents various parameters that justify online systems being easier to perform than traditional reservation systems. In addition, similar systems are reviewed to justify implementation of the proposed system.

Chapter – 5

Impact on Society, Environment, and Sustainability

2.1 Impacts on Society

The Internet has enabled patients to become more involved in their own care, learn more about their condition, access and post online health records, access health services and Give patients the opportunity to interact. — through shared decision-making tools, for example. A new trend in eHealth is the delivery of health services online. Among online health services, electronic advice is particularly attractive and growing in popularity. This new type of online health advice can reduce both waiting times and travel costs. It can also be a valuable option for diagnosing patients more efficiently. Most importantly, patients with limited or no medical resources will have equal access to medical professionals online, enabling better and more efficient use of medical resources across the country. Online health consultations are critical to reducing healthcare costs and improving operational efficiency, healthcare resource effectiveness and equity, and customer satisfaction. As such, the use of e-counseling has become increasingly popular and has grown rapidly in recent years. B. Over-reliance on it, which can lead to treatment delays, patient privacy and confidentiality, and technical problems associated with this technique. Examples of third-party electronic counseling websites are askthedoctor.com, askdoctorfree.com, and haodf.com. Electronic consultations are also used by some offline medical institutions, such as the Mayo Clinic, to provide health services online. Electronic consultation

appears to have improved access to professionals who can be integrated into the care process when timely expert opinion is needed.

5.2 Environmental Impact

Potential benefits include reduced greenhouse gas emissions and waste generation associated with each practice due to reduced patient and staff travel, and reduced equipment consumption.

This includes a reduction in raw materials and sanitary equipment required.

5.3 Ethical Issues

- **Privacy Issues: Privacy Issues with Continued Use of Online Physician Consultation**
- **Preventing Unauthorized Access:** Online consultations should be conducted over secure video connections. Patients must be informed of their data protection rights and obtain consent before submitting any health information.

Recorded data must be stored with secure encryption technology.

- **Reducing User Anxiety:** People are most often worried about their illness and need to be safe.
- **Respect others' privacy:** Respect users' private information and do not interfere in users' transactions. Ensure the best therapeutic services.
- **Freedom of Information Aspect:** People can transmit their data independently and other people cannot intervene there. People have the power to keep their information private, even though governments sometimes try to access their data for surveillance.

5.4 Sustainability Plan

Receiving a large boost from the pandemic, the global telemedicine market is estimated to grow from about 80 billion USD in 2020 to almost 400 billion in 2027. The average inoffice doctor's visit has been reported to take over 2 hours, with most of that time spent commuting and in the waiting room. In comparison, telemedicine saves each patient over 100 minutes of precious time and completely removes the need to travel. For this reason, telemedicine is highly accepted and appreciated by patients; 93% state that they would use telemedicine to manage prescriptions and 91% say that telemedicine would help them attend appointments, manage prescriptions, and follow lifestyle regimens dictated by their doctor

Several scientific studies have concluded that telemedicine reduces the carbon footprint of healthcare visits, primarily by reducing transport-associated emissions. The carbon footprint savings range between 0.70-372 kg CO₂e per consultation, with the carbon emissions produced from the use of the telemedicine systems themselves found to be very low in comparison.

5.5 Implementation of Database

MongoDB stores data in JSON-like documents that can vary in structure. Related information is stored together for fast query access through the MongoDB query language. MongoDB uses dynamic schemas, meaning that you can create records without first defining the structure, such as the fields or the types of their values.

5.6 Implementing the Interface Design

To implement this type of web application, we had to decide what programming languages and technologies we could use. Working on both

frontend and backend, I am using the following programming languages and frameworks

Front-End Design Html

HTML stands for Hypertext Markup Language (HTML) and is the most commonly used markup language for creating web pages.

Hypertext refers to the way HTML documents on web pages are linked together. Therefore, the links available on web pages are called hypertext.

As the name suggests, HTML is a markup language. This means using HTML to easily tag text documents with tags that tell web browsers how to structure them for display.

CSS

Cascading Style Sheets, affectionately known as CSS, is a simple design language that simplifies how web pages are rendered.

CSS assumes the appearance of the website. CSS allows you to control text color, font style, spacing between paragraphs, column size and alignment, background image or color used, and many other effects.

CSS is easy to learn and understand, yet provides powerful control over the presentation of HTML documents. CSS is most often combined with the markup language HTML.

JavaScript

JavaScript(JS) is a text-based programming language that is used on both the client side and the server side and enables you to design web pages interactively. While HTML and CSS are the languages that give structure and style to web pages, JavaScript web pages provide interactive elements that attract the user. JavaScript is mainly used for applications and web browsers. However, JavaScript is also used outside of the web in software, servers, and controls for embedded hardware.

Back-End NodeJS

Node.js is primarily used for non-blocking, event-driven servers, due to its single-threaded nature. It's used for traditional web sites, all kinds of website and back-end API services, but was designed with real-time, push-based architectures in mind.

MongoDB

MongoDB is an open source NoSQL database management program. NoSQL is used as an alternative to traditional relational databases. NoSQL databases are quite useful for working with large sets of distributed data. MongoDB is a tool that can manage document-oriented information, store or retrieve information.

5.3 Deployment Testing

The main testing process is to identify bugs in the app site.

Testing provides a convenient way to reduce website errors and increase user confidence in the created system. It is impractical to test the website of a web application for all possible values that the input requested by the data can take. If the program does not test for expected behavior, the condition that caused the error is recorded for subsequent correction.

Process:

Login: This provides security features through username, password similarity, and other types of jobs. Only authorized persons in the system can see and know all the information in the system.

User profile registration: First, the user must be registered. This allows you to see detailed information about the user. Allows the general public to register as a guest user.

Product search and community: Users will be able to compare their required products by going to the search option of the website for purchasing any product. Will be able to give us community reviews in detail about his product later.

5.4 REPORT LAYOUT FORM THE RESULT

Table 5.1: User login system test results

Name: Login system				
In no way	Experiment Situation	Prospective result we want	Recover output from this system	Sometime this Status (yes, no)
Testing 1	Click submit buttons with invalid email or password on the system.	The method does not Allow the user to log himself into the system. Differently, the user cannot review the community at any time.	The user will always be directed to this page when processing messages that appear from the same page.	Yes

Testing 2	Click submit buttons with invalid email or password on the system.	Messages " Invalid email address." or Password on this system.	As a perspective.	Yes
Testing 3	Click the submit buttons with the correct email and password entry in the system.	The system allows users to log into the system at all times.	The systems allow the user to access the website with the rights granted to them in all their needs.	Yes

Table 5.2: User registration and test result

Name: Registration Systems for the user				
None	Testing Conditions	Expects Results	Original Outputs for the system	present conditions (yes, no)
Testing 1	Click submit buttons without email and passwords in systems.	The systems do not allow users to log in. Another user cannot post her activity to the community.	Systems allow messages to be displayed on the current system page and users will see the system page.	Yes

Testing 2	Clicked submit buttons failing correct passwords and confirmation of passwords.	Exposure of the messages "Invalid email address" and Confirm password enter the system.	Exposure of message systems and curriculum vitae to the same page as necessary at all times.	Yes
Testing 3	Selected from the type Users with and Correct user and the Registration form in the system.	The system allows users to log into the system at all times.	The systems allow users to access the web-based project on the rights that things give them.	Yes

Table 5.3: Publishing community test results

Name: Create post for community				
None	Testing conditions	Expects results	current Output	present conditions (yes, no)
Testing 1	Clicked on new post buttons without adding any new information's on requests for products feedback.	Systems allow management to save or collect information without response.	The system will display the same page type messages, and users can view this page at any time.	YES

CHAPTER 6 Summary, Conclusions, Recommendations, and Implications for Future Research

6.1 Summary of Research

Online health counseling is an increasingly popular potential solution to health care resource constraints and inefficient resource allocation. It is rising. However, many online medical consultation platforms struggle to attract and retain patients willing to pay, and healthcare providers on the platforms additional challenge of standing out in a crowd of physicians who can provide comparable services. Objective: This study used machine learning (ML) approaches to mine massive service data to (1) identify the important features that are associated with patient payment, as opposed to free trial-only appointments; (2) explore the relative importance of these features; and (3) understand how these features interact, linearly or nonlinearly, in relation to payment.

6.2 Conclusions

Health systems are under increasing pressure to save money and improve quality. There are hopes that, over the next decade, digital health and, specifically, the internet, harnessed as a health service tool, can address these aims by shaping individuals' service use and health perceptions. At the same time, as the NHS embraces a responsive, patient-centred, listening culture, it is important that it is listening, interpreting and responding to the right signals. In line with many other sectors, these signals are increasingly coming from online user-generated content, as patients use the internet to comment on their experiences of health and care services. In this context, we set out to examine this emergent phenomenon that was being harnessed in other sectors, such as travel and retail, with the intention of providing the NHS with the evidence required to understand and use online patient feedback..

6.3 Implication of Further Study

Data security is a vast area for implications and is becoming more and more crucial as time goes on. People are looking for safe data-transfer solutions that use secure transactions. With time, people become more reliant on numerous programs and engaged online. As a result, data security drastically declines, and users lose control. That's why we want to develop our proposed model widely and expand its application area. Now we can encrypt

Purpose The purpose of this paper is to investigate factors that influence the patients' intentions to visit doctors face-to-face for consultations from the perspective of online doctor-patient interaction. Justice theory, SERVQUAL and the halo effect are integrated to develop a research model based on the performance-evaluation-outcome framework. The authors hypothesize that perceived justice and service quality are the significant factors in reflecting the performance of online doctor-patient interaction, which influences patient satisfaction evaluation and online and offline behavioral intentions.

Design/methodology/approach The study conducted an online survey to collect data. Patients on a healthcare consulting website were invited to participate in the survey. The research model and hypotheses were tested with 254 collected data from patients and analyzed using the partial least squares method.

Findings The results show that perceived justice and service quality have a positive effect on patient satisfaction, and satisfaction and the intention of online consultation have a positive effect on the intention of face-to-face consultation.

Practical implications This study offers suggestions on how doctors interact with patients and build their brand image. The findings also offer effective insights into improving doctors' online services to retain patients and even encourage patients to go to clinics.

Originality/value Online health consultation is one of the most popular online health services and is growing quickly. After patients consult online doctors, they are able to visit their doctors in person for further diagnosis and treatment if they have the need. This study investigates how patients' online interactive experience influences their offline behavioral intentions, which are different from most of the past literature on eHealth.

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