Virtual Vista

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Virtual Vista

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in

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by

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CERTIFICATE

This is to certify that the dissertation entitled "Virtual Vista" is a bona-fide work of "Aniket Soni (URN No.: 2020-B08082002A) and Shivam Jha (URN No.: 2020-B-11072002A) and Pranay Jadhav(URN No.: 2020-B-09042002A)" submitted to the School of Engineering, Ajeenkya D Y Patil University, Pune in partial fulfilment of the requirement for the award of the degree of "Bachelor of Computer Application in Cloud Technology & Information Security (CTIS)".

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, **Ajeenkya D Y Patil University**, **Pune**, **Maharashtra-412105**. Neither this dissertation nor any part of it has been submitted earlier for any degree or diploma to any institute or university in India or abroad.

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Declaration of Originality

WE, Aniket Soni (URN No.: 2020-B08082002A) and Shivam Jha (URN No.: 2020-B-11072002A) and Pranay Jadhav(URN No.: 2020-B-09042002A, hereby declare that this dissertation entitled "Virtual Vista" presents my original work carried out as a bachelor student of School of Engineering, Ajeenkya D Y Patil University, Pune, Maharashtra. To the best of my knowledge, this dissertation contains no material previously published or written by another person, nor any material presented by me for the award of any degree or diploma of Ajeenkya D Y Patil University, Pune or any other institution. Any contribution made to this research by others, with whom we have worked at Ajeenkya D Y Patil University, Pune or elsewhere, is explicitly acknowledged in the dissertation. Works of other authors cited in this dissertation have been duly acknowledged under the sections "Reference" or "Bibliography". We also declare that We have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission.

We are fully aware that in case of any non-compliance detected in future, the Academic Council of Ajeenkya D Y Patil University, Pune may withdraw the degree awarded to us on the basis of the present dissertation.

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We would like to say that it has indeed been a fulfilling experience for working out this Internship/Project.

Student can acknowledge anyone in this section

Aniket Soni Shivam Jha Pranay Jadhav

Abstract

Increased Accessibility: Wireless and mobile devices have completely changed how business is done by enabling data access worldwide. Access to shared data is practically universal across staff, partners, and clients, increasing productivity and accessibility to vital information.

Worker Efficiency and Productivity: Mobile enterprise software allow employees to complete activities on the go. the move, resulting in increased worker effectiveness and production. Real-time data is accessible to employees, shorter response times and better outcomes come from teamwork and swift decision-making. Making decisions.

Cost Savings: Utilising wireless and mobile technologies in the workplace can save costs reduction apps that use little processing power and memory on the client's end are known as thin clients. due to the fact that they do not require pricey hardware upgrades, they can be economical and ideal.

Improved Accuracy: Mobile applications can be used by small firms or organisations with limited resources. Boost accuracy by doing away with human data entering and lowering the likelihood of mistakes. Live information the information received through mobile devices is accurate thanks to synchronisation and connection with back-end systems applications are correct and up to date, which improves data reliability and accuracy.

Competitive Advantage: Businesses who adopt mobile enterprise applications will benefit from the rising demand for this technology has the potential to acquire an edge. Early adopters of mobile applications can stay in business through providing improved client experiences, improving company operations, and maintaining constant communication with partners and staff. Challenges and Opportunities:

Developing wireless and mobile apps poses both difficulties and possibilities. One of the difficulties is the there are numerous application architectures, including messaging, smart, and thin clients,

which call for new technologies and ideas that developers must master. However, flexibility also gives organisations the chance to investigate and use various application architectures that best meet their business needs resulting in new ideas and enhanced company procedures.

Key words: Worker productivity, cost reduction, global access to data, mobile and wireless devices application architectures, thin client applications, competitive advantage, challenges, and possibilities, process innovation in the workplace.

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List of Abbreviations

GUI Graphical User Interface

IDE Integrated Development Environment

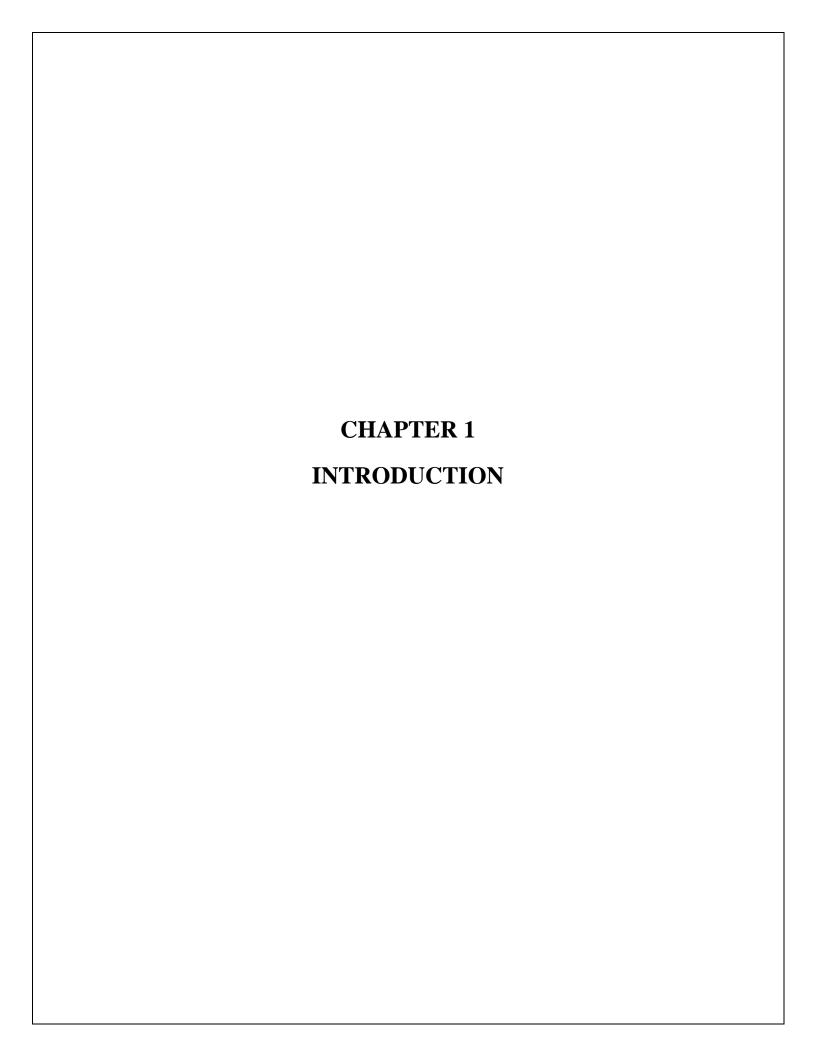
HTML Hypertext Markup Language

SDLC Software Development Life Cycle

CSS Cascading Style Sheets

SQL Structured Query Language

PHP Hppertext Preprocessor



Introduction

Wireless and mobile technology has the potential to revolutionise business carried out today. Employees, partners, and clients can access and use exchanged information from nearly anyplace.

Global data access, improved employee productivity, and efficacy, costs of care, increased precision, and competitive advantages are increasing the need for mobile business applications. as demand remains high, sophisticated mobile applications are made possible by an improvement in mobile infrastructure may be mature.

Alternatively, the worry that the advancement of wireless and mobile applications will make extensive use of numerous novel technologies and ideas that developers are still, many businesses pick up the use. One of the difficulties with the mobile app.

There are several different application architectures available in space, which can be shortened as follows:

- 1. Thin client software.
- 2. Smart Client software.
- 3. Messaging programme.

It's important to understand that the term "thin client" refers to wireless Internet apps. This Because there is no software needed on a wireless device other than a simple browser to access the internet, an application is referred to as a "thin client". Admittedly, all thin client applications the server platform, where it is performed, houses the application logic. so that the Running these on the client doesn't require a lot of computing power or memory. applications, making it appropriate for very little, constrained resources.

1.2. Smart Client Application

These tools enable businesses to send an app to a smartphone. enabling technology that allows the user to continue using the programme even when there isn't a cellular data connection. These applications often involve a type of firmware for data storage that connects to business systems via synchronisation of data. Advanced users and programmes may be combined in this way.

It is appropriate for offline use thanks to its interfaces and high-performance data access computing.

1.3. Messaging Application

There are numerous mobile and wireless communications formats accessible, such as email, SMS, EMS, MMS, and instant messaging, as well as HDML, WAP, and application to messaging in applications. Among all the texting methods, SMS has become the most popular by far. Despite the fact that in the future there will be intense rivalry in the mobile space both MMS and Instant Messaging.

The Short Message Service (SMS) was originally introduced in Europe in 1991 as a GSM Phase One standard component. Since then, it has experienced significant growth, with more than one billion messages being exchanged everyday around the globe. One of the most crucial applications for smartphone users is SMS, whose existence is dependent upon the existence of a Service Provider. SMS enables this to communicate with mobile phones using brief text messages. Alphanumeric characters can only be used in the message up to a length of 160 characters. English, as well as 70 characters for non-Latin alphabets including Arabic and Chinese. Latin alphabets. It offers people a simple means of communication global systems, as well as with one another. This service is provided for the mobile at a reasonable price.

The next-largest application is poised to be instant messaging (IM). In the wireless sector. With a massive SMS growth rate and more than 100 million users instant chatting for PC users and wireless devices is great. It offers features comparable to those of other two-way communications platforms, like SMS and e-mail, the addition of one has a significant benefit. A presence of an chat, which is frequently referred to as this form of message to the Instant

(IMPS) Messaging and Presence Services. The network mobile application that is being presented as software advises using the Bluetooth component of the smartphone to enable wireless messaging between two handsets It provides a free service rather than using a network of services providers, the Even in the absence of a service provider, the proposed new software application can be implemented for nearby cell phone.

People now have easier access to the internet thanks to the development of internet technologies easily. More and more services are being offered via the internet, and they can all be virtualized. I'm grateful for technology interaction between users of the internet becomes a routine aspect of their lives. In the past, people used to exchange messages via the messaging platform of the online conversation. Historically, when people require In order to communicate with others, they will engage in face-to-face interactions.

Message, same applies to the sphere of education. It is highly recommended that students asking the professor for help with their academics when they run into problems. When an exam or assignment due date is approaching, things seem to go wrong most frequently. The standard procedure for a consultation is for students to send an email to the a professor who accepted the appointment or a lecturer who is free to visit and available during a lecturer consultation hour. However, this kind of communication might be inconvenient and ineffective as a result of a problem that occurred prior to the consultation. The consultation meeting may be carried out in another, comparable manner, utilising an online remedy. When a student requests to speak with the lecturer in person through the conventional manner, there are certain potential problems that could develop appointment and gathering in a lecture hall for communication.

1.4 Project Scope

The development of this project will be web-based. The project is expected to present an online web chat system for lecturers and students. The undertaking featured an appointment system that will handle all of the student and teacher appointments and the instructor successfully.

Additionally, a real-time chat system will be offered as a feature. The goal of the initiative is to establish a direct line of communication between the student and the educator. The project includes other features as the screen sharing that File sharing, text chat, and screen sharing of the user's active window.

Additionally, an SMS reminder system will be created to alert the pupil or the consultation session that will be held later with the teacher. Nevertheless, the real-time the mobile website will not cover communication web applications.

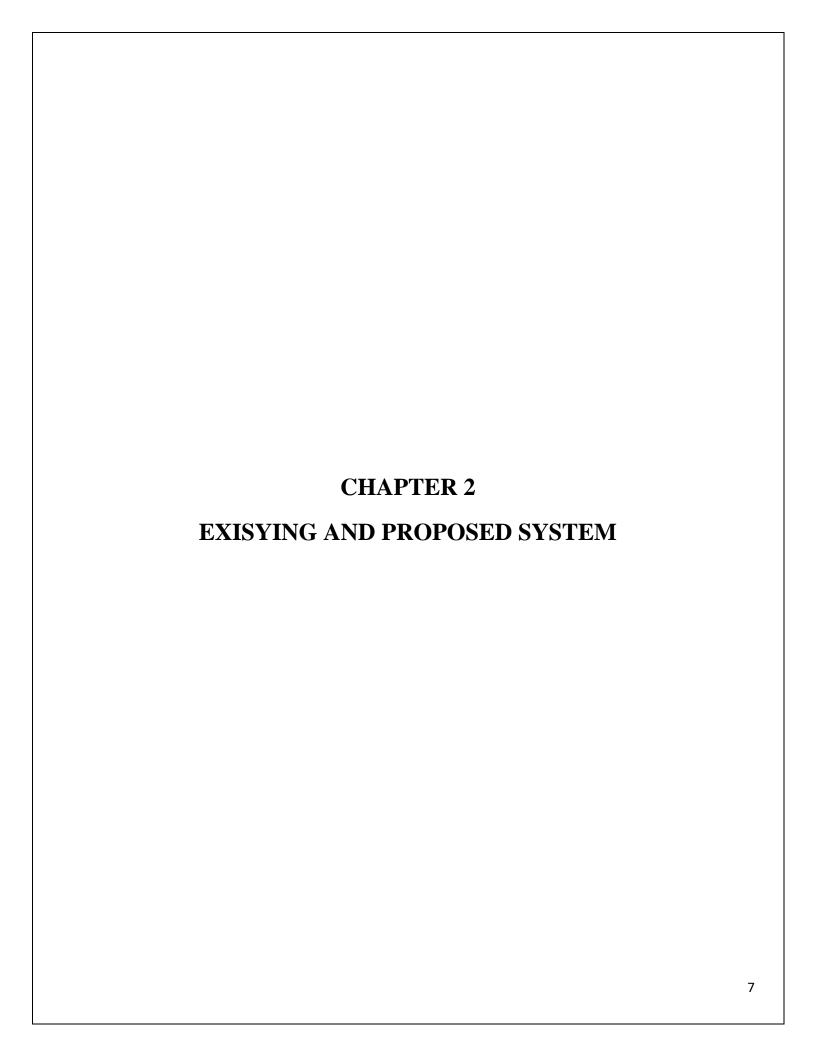
1.5 Project Background

Students occasionally struggle to understand particular topics and content. Due to the expansion of the internet, students typically use it and do searches for the answer. In the worst-case scenarios, they can receive some inaccurate information that misunderstand the entirety of the subject. Consultation with academic illustrators is the best course of action in this situation. The teacher can supply the appropriate information and make the explanations obvious.

Student fully comprehends the subject. Before the student attended for the consultation, they often had to go through a few simple steps. Initially, the Most likely, the kid needs to schedule a meeting with the teacher. A phone, email, text message, and other methods can be used to schedule the appointment. The date, time, location, and reason for the appointment are typically included in the appointment text. following the appointment If the instructor gives the student the go-ahead, they can consult. In this undertaking, SMS Reminder is used to assist both users in remembering their consultation a late session.

WebRTC will also be used to replicate face-to-face communication. A communication standard created by W3C is the webRTC, which adheres to the standard made available by the IETF, ITWeb.

When the Google Chrome team realised that there was no enough when working on functionality, a real-time communication solution differences between native desktop and the web. In the past, RTC was necessary, either a plugin or flash. Flash is low-quality and requires a server to operate outcome.



Existing System and Need for System

2.1 Existing System

- Such a system is not currently accessible. The previous users must log in to authoritative website. As a result, a chat system facility was required.
- There is LAN network dispersed over numerous offices, allowing us to create software that can operate on LAN

2.2 Proposed System

- A chat feature will be implemented for this system.
- The system is centralised.
- It has a centralised database server and is a client-server system.
- A LAN connects each local client to the centralised server.
- There is two-way communication between the server and several clients.
- Group discussions can be held using this chat programme.
- It enables users to locate other online users.

2.3 Requirements

2.3.1 System Requirements:

- The software must work with Windows 10, Mac OS X, and Linux.
- running programmes.
- A minimum of 4GB of RAM and 1GB of free disc space are needed for the system.
- Minimum screen resolution required by the system is 1280x720.

2.3.2 Requirement Specification:

- For an online retailer, the software system must be able to manage client information and orders.
- Customers will be able to place orders using the system, see their order history, and their personal data should be updated.

• Administrators will be able to control product information, process create reports, and process orders.

2.3.3 Functional Requirements:

Customers and users of the system will have access to a secure login and registration process. administrators.

Customers will be able to browse products by category and conduct searches using the system. and add items to their shopping cart. After an order is placed, the system will calculate the order totals, including taxes and shipping costs, and send consumers an email confirming their order.

Administrators will be able to examine and handle customer orders, as well as add, edit, and delete product information from the system.

2.3.4 Non-Functional Requirements:

- The system must be dependable and accessible around-the-clock with little downtime.
- Updating and upkeep. The system must be expandable to accommodate a rising tide of customers and orders.
- The system must have an easy-to-use interface with straightforward navigation.
- The system must process data with little latency and quick response times.
- Requests from clients.

2.3.5 Domain Requirements:

- The system must abide by pertinent data protection and privacy laws, including as CCPA and GDPR.
- To protect consumer data, the system must use secure communication methods while the gearbox.
- Multiple languages and currencies will be supported by the system to accommodate customers from abroad.
- The system must offer users customisable email templates.
- Communications like shipping updates and order confirmations.

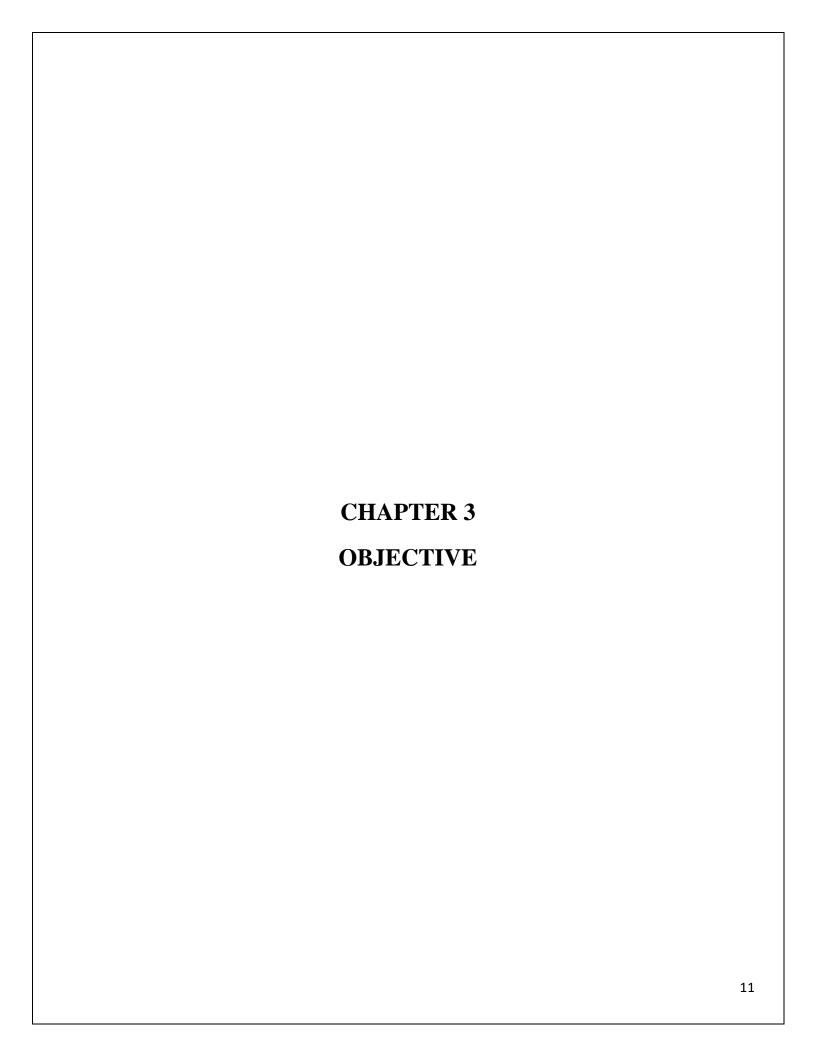
2.3.6 Database Requirements:

Information about the customer, such as name, address, and order, must be stored by the system, history, kept safe and secret in a database.

The system must keep track of product details such name, description, pricing, etc levels of inventory, kept in a different database.

The system must provide effective data searching and retrieval to reduce consumer request response times.

To prevent data loss in the event of a system failure or data breach, the system must have a backup and recovery plan in place.



OBJECTIVE

3.1 Objectives:

These goals were accomplished once I built the system:

- I was able to create a chat application that was multilingual.
- I was able to create a system that is interactive that used Pidgin English when chatting.
- I was competent in assessing the available literature on instant messaging.

3.2 Survey

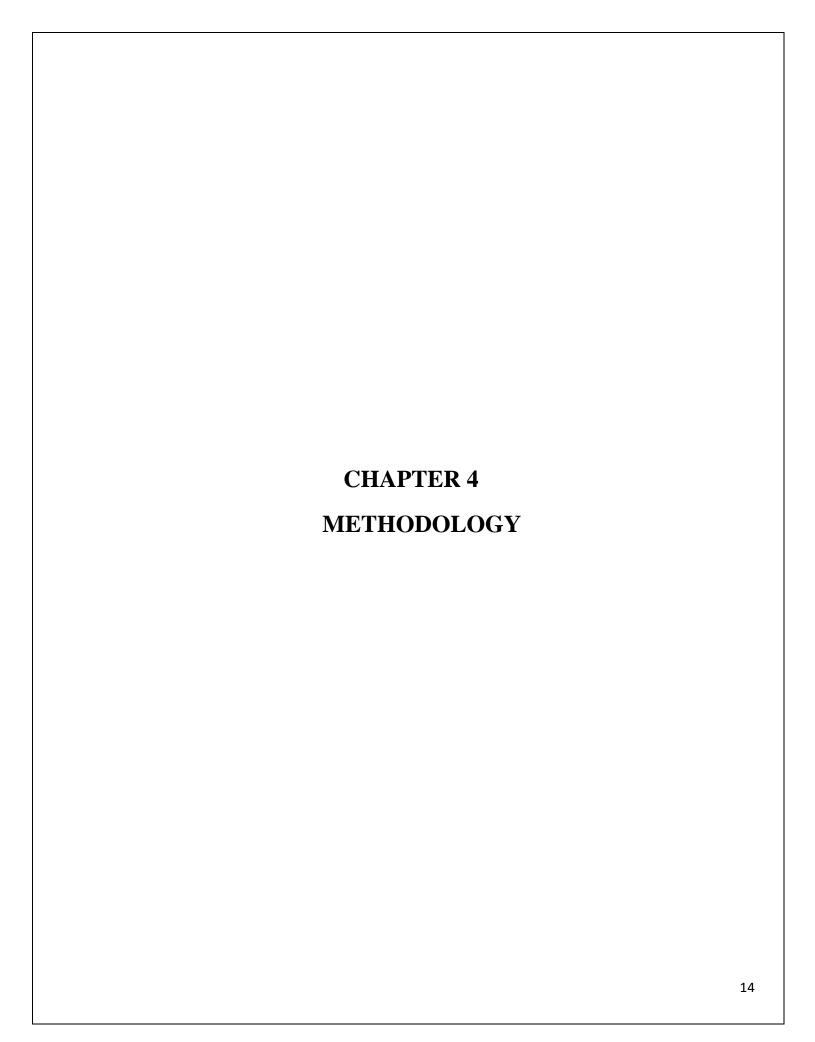
We conducted this survey to learn more about how consumers feel about our brand and merchandise. In point 2, we asked participants to rate how satisfied they were overall with on a scale of 1 to 10, rate our goods. This enabled us to gauge the general level of Our items are satisfying our clients' requirements and expectations. We also inquired participants to provide their particular opinions on the aspects of our that they liked and disliked items, along with any recommendations they had for enhancement. By accumulating this information, we may determine the areas in which we thrive and those on which we should concentrate. On making changes to serve our consumers more effectively. Overall, the information gathered the information from point 2 will be crucial in assisting us in making data-driven decisions to improve the reputation of our brand and products.

3.3Problem Statement

There are numerous issues while launching any programme or service, but one of the majors Choosing the right tool, language, stack, or framework to construct a service is a difficulty applying on. Real-time application development is related to slow latency. message delivery, which in turn entails network delay and data transfer size caught to be as low as practicable. SMS messaging cross platform authorization for Android and IOS are another issue.

3.4 Analysis

It is evident from the survey's data analysis that there is a sizable market for more ecologically friendly goods. the majority of those surveyed claimed that they would be prepared to pay extra for goods with lesser environmental impact and a longer shelf life. This demonstrates a rising worry for the desire to make more thoughtful purchase selections, and the environment. Additionally, the statistics showed that many buyers are uncertain about what creates an environmentally friendly product. This emphasises the requirement for better teaching and promotion of sustainable products and their advantages. Companies may play a significant role in promoting and delivering this education, offering their clients sustainable items. They can achieve this and not only fulfil the while simultaneously helping to create a future that is more sustainable.



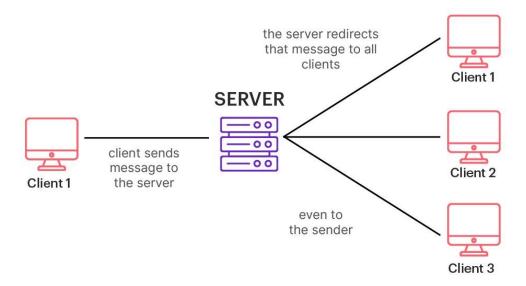
METHODOLOGY

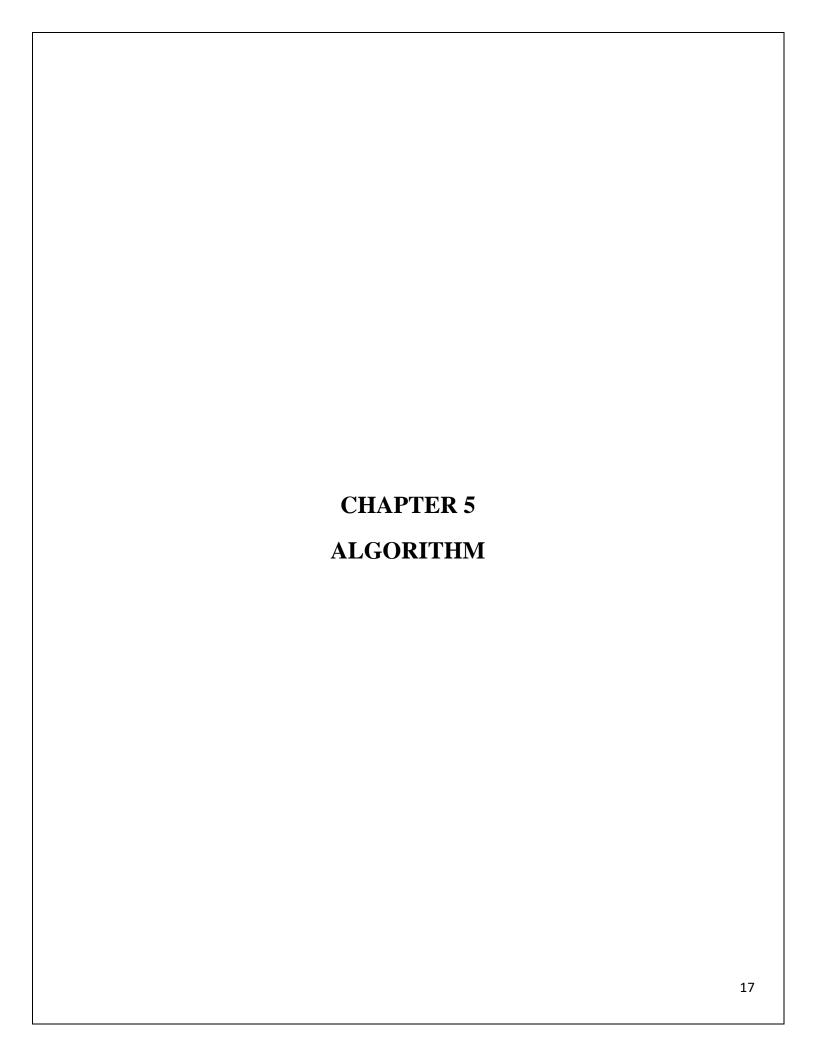
4.1 Overview

A concise summary or general explanation of a certain topic is referred to as an overview. A project or idea. It is a succinct and transparent presentation that emphasises the crucial without delving into too much detail, certain facets of the subject.

An overview's goal is to give listeners or readers a concise the subject at hand, providing them with a foundation for additional investigation or analysis. It can be delivered in a variety of ways, including through written language, visual aids, or Depending on the audience and the topic, oral presentations may be appropriate. The main features of a topic should be covered in a well-written summary, including its purpose, range, importance, and relevance. Additionally, it should be succinct and interesting to draw the reader in and pique their curiosity about the subject. A summary can also assist in creating a framework or structure for the readers to understand how the various components relate to and fit together within the theme.

4.2 System Architecture

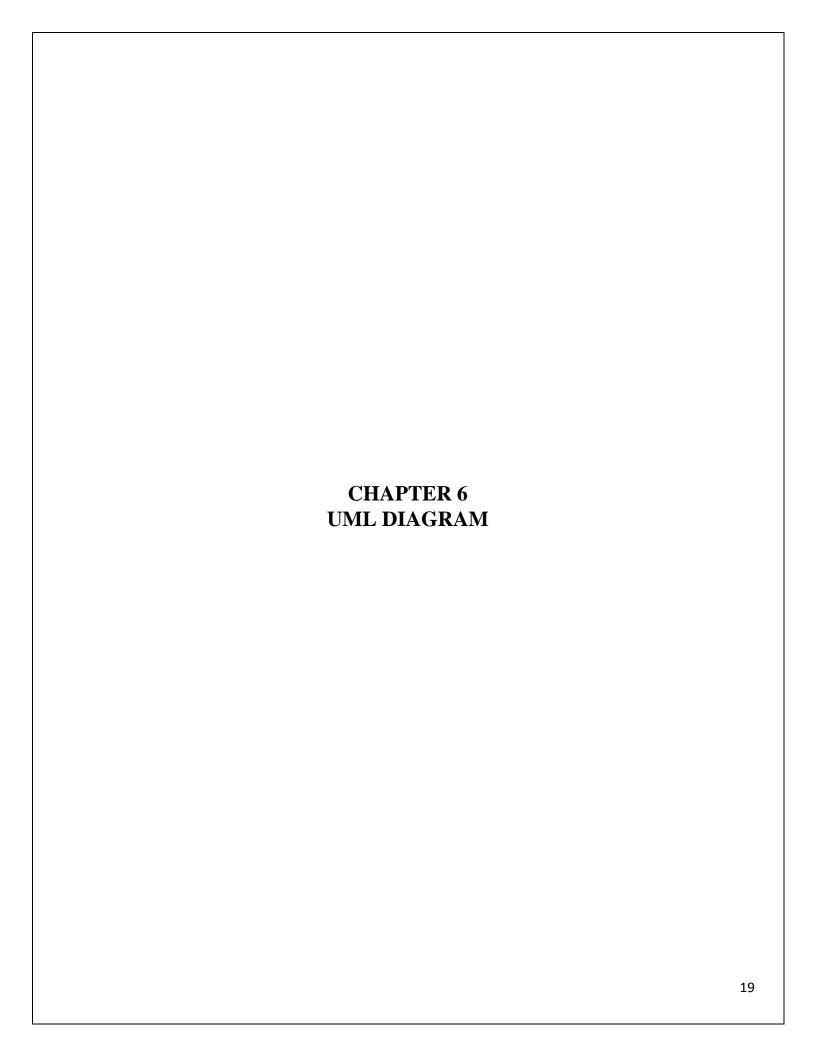




Algorithm

- Step 1: Before users can access the chat, they must first authenticate. application. Either a login page or social networking sites can be used for this.
- Step 2: If a user is brand-new, they must create an account in order to access the chat application. Giving information such a name, email, and password is required for this.
- Step 3: The user can browse their contacts or friends list after successfully authenticating. and choosing a conversation partner.
- Step 4: After typing a message, the user can send it to the contact they've chosen. The the message after which sent to the server.
- Step 5: The recipient's device gets the message broadcast by the server. and updates the chat programme with the message.
- Step 6: The recipient is informed that the message has arrived, and a Their device shows a notification.
- Step 7: The communication is saved on a server or in the cloud, allowing it to be if necessary, accessed later.
- Step 8: To prevent unauthorised access, the chat programme should make sure that all communications are safe and encrypted.
- Step 9: To make it simple for users to use and navigate the chat application, it should have an intuitive user interface.

During message transmission or any other procedures, the chat programme should be able to manage any issues that may arise. This will aid in making ensuring that users enjoy a seamless experience utilising the a discussion programme.



UML DIAGRAM:

Fig.a)6.1 Case Diagram

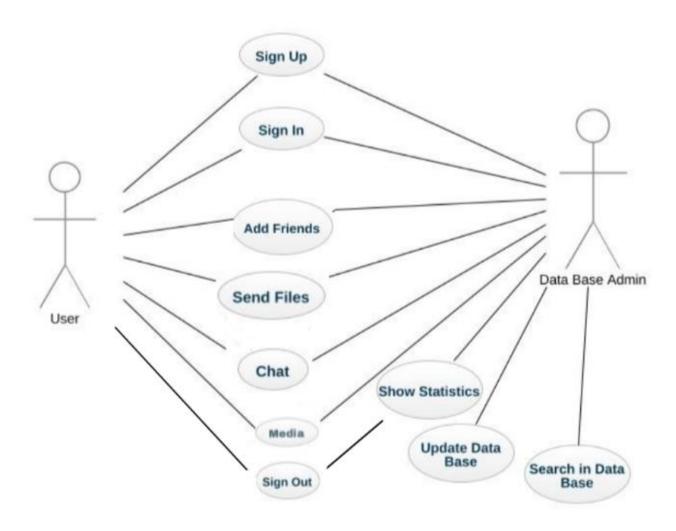
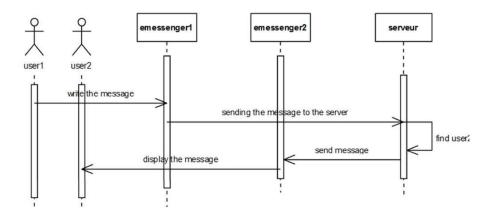
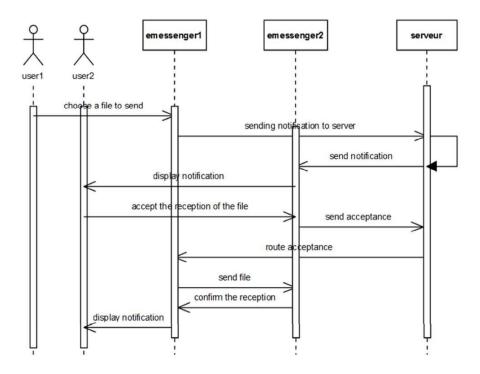
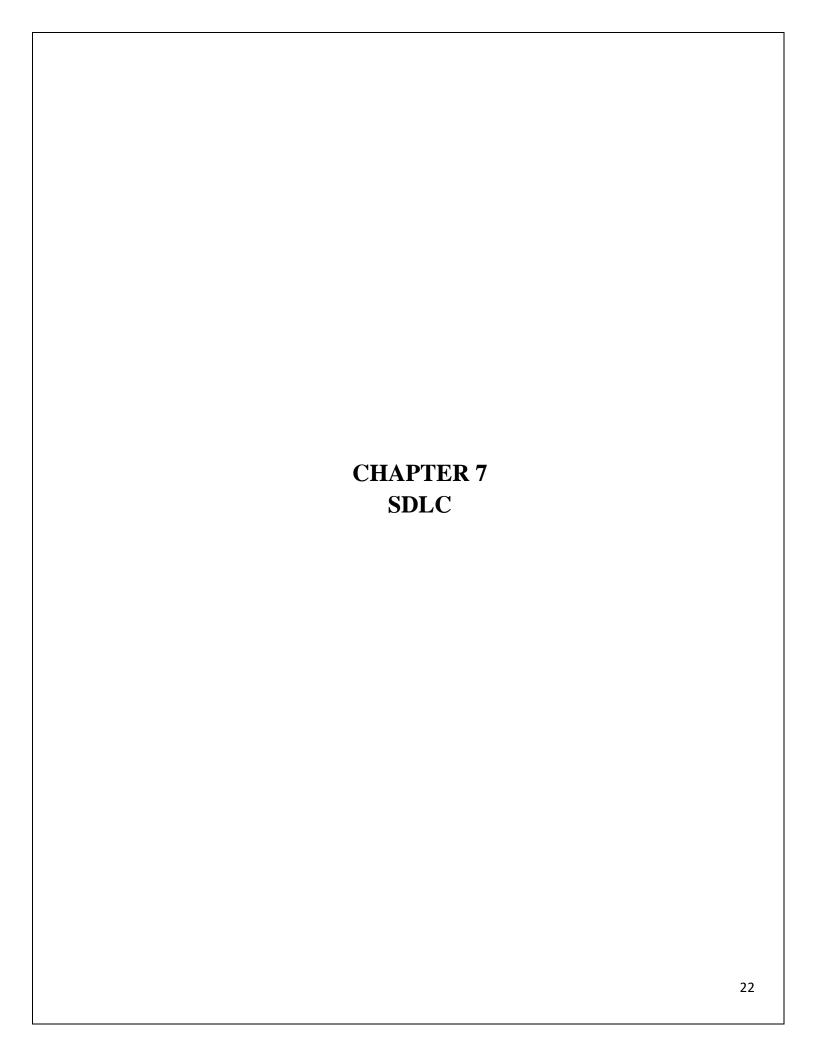


Fig. b) 6.2 Sequence Diagram







1.1 SDLC (Software development Life Cycle)

Every endeavour has a life cycle, and the process of developing software is not an a similar exception is made. Even if you are not familiar with the SDLC, you must be unknowingly pursuing it. However, if a software specialist is knowledgeable about Using the SDLC, he may carry out the project in a much more controlled way. among the large Benefits of this awareness include the fact that direct-starting developers will hold back. Coding execution that can actually result in an uncontrolled project fashion. Second, by foreseeing potential faults and problems, it helps customers and software professionals avoid confusion. In a nutshell, SDLC outlines the different phases of a software life cycle. But first, let's try. To comprehend the principles behind the SDLC. The beginning and conclusion of the SDLC need to be seen more broadly. Any endeavour that has been started but lacks a beginning and an end then there is already a problem. Like when you go on a drive, you need to know where to start and where to end otherwise you will keep going in circles.

The SDLC, which comprises five primary models, is depicted in the figure below as having a typical flow.

- Phased and Big Bang models for waterfalls.
- Incremental and spiral iterative models.

Iterative model

Due of issues with the Waterfall paradigm, the iterative model was established model. The creation of the iterative waterfall paradigm makes use of system. The system is created in stages, with each stage contributing. Until the entire system is complete, the system can still work in some capacity. Implemented. The benefit of this strategy is that it will produce improved testing because it is simpler to test each increase than the whole system in its entirety. Additionally, this strategy gave us significant comments that were really helpful in the execution of the system.

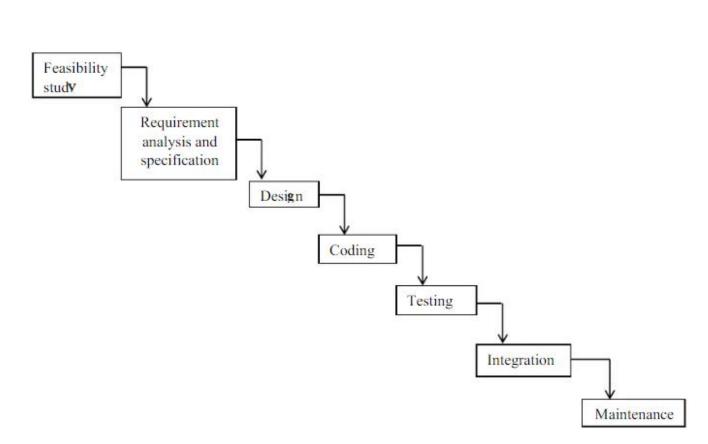
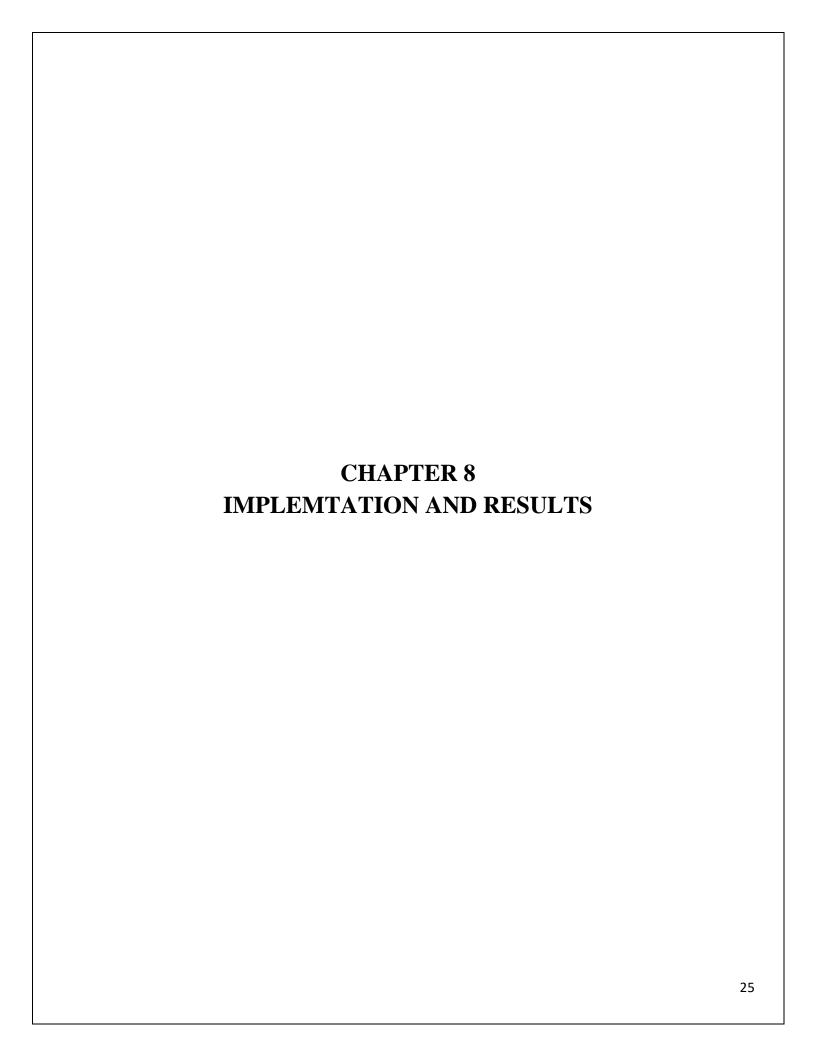


Fig 10: Iterative Model



8.1 System Overview

The system we have created is a web-based programme intended to manage the appointment making and tracking for a medical clinic. With several degrees of access, the system is meant to be utilised by both clinic staff and patient's functionality for any type of user. The system comprises a number of modules, including one for booking appointments, another a reporting module, a staff management module, and a patient management module. Each module is created to meet a certain set of duties and activities, and when combined, they provide a comprehensive solution.

They give the clinic a thorough framework for organising its appointments and patients. Staff members can create and manage appointments using the appointment scheduling module. Schedules, allocate employees to visits, and let patients know about their scheduled meetings. Using the patient management module, staff members can maintain patient profiles that include contact details, medical history, and insurance information.

Using the employee management module, administrators can control accounts for staff members, complete with login information and access rights. Lastly, the admins can generate reports on appointments using the reporting module. Patient information, timetables, and other crucial parameters.

Overall, the system gives the clinic a streamlined and effective means to manage its appointments and patients, while furthermore giving users a simple-to-use a tool for monitoring and scheduling their own appointments. The system is a useful tool for any user because to its straightforward layout and extensive feature set. medical practise trying to enhance its scheduling procedures.

8.2 MySQL Server

Essentially, MySQL server is a database server that is primarily used for storing User data should be entered into the necessary database in a designated table for future simple access. When a local programme calls the database server, it operates. PHP sends a SQL query to the MySQL database server to create a connection to the database before putting data into it using a database server.

Obtaining authentication from the database server by using the loopback IP, i.e., 127.0.0.1, together with the user's name and password. due to connection is formed locally by PHP with the database server, therefore the client has no opportunity of accessing the database server to edit the database.

When PHP sends a SQL query to the database server to seek information, the database server responds by sending the query's results. by the database server running it. another way to reach the database server is only feasible locally, that is, only the computer's administrator can obtain access to all of the database server's access features and all of the database which restricted people cannot access. PHP is capable of updating data in the if it has the administrator account and password to access the database server the MySQL server will deny the connection if it is not for a specified database.

Database updates aren't possible. Before the invention of the computer, individuals' databases have been used. A database may have existed before computers as a phone book with the contacts of the significant individuals you know, or all of the company's personnel records were kept in a file cabinet.

These days, databases are built on computers and may be obtained almost anywhere. From ranging from small desktop databases for your record collection to massive, web-enabled databases corporations.

8.3EVOLUTION OF PHP

"PHP: Hypertext Pre-processor" is the abbreviation for PHP. A PHP is a HTML has server-side scripting language. It serves to control creating whole e-commerce sites, databases, session monitoring, and dynamic content. It is integrated with several well-known databases, such as MySQL, Microsoft SQL Server, Oracle, Sybase, Informix, and PostgreSQL. PHP is execution is quite quick, especially when compiled as an Apache module.

In terms of UNIX. Once it is running, the MySQL server executes even the most sophisticated queries with enormous result sets in a lightning-fast manner. POP3, IMAP, and LDAP are just a few of the many popular protocols that PHP supports. PHP4 added assistance for N-tier object designs using Java and distributed object architectures (COM and CORBA) a first-time possibility for development. The PHP programming language aims to be as forgiving as it can. PHP syntax resembles C.

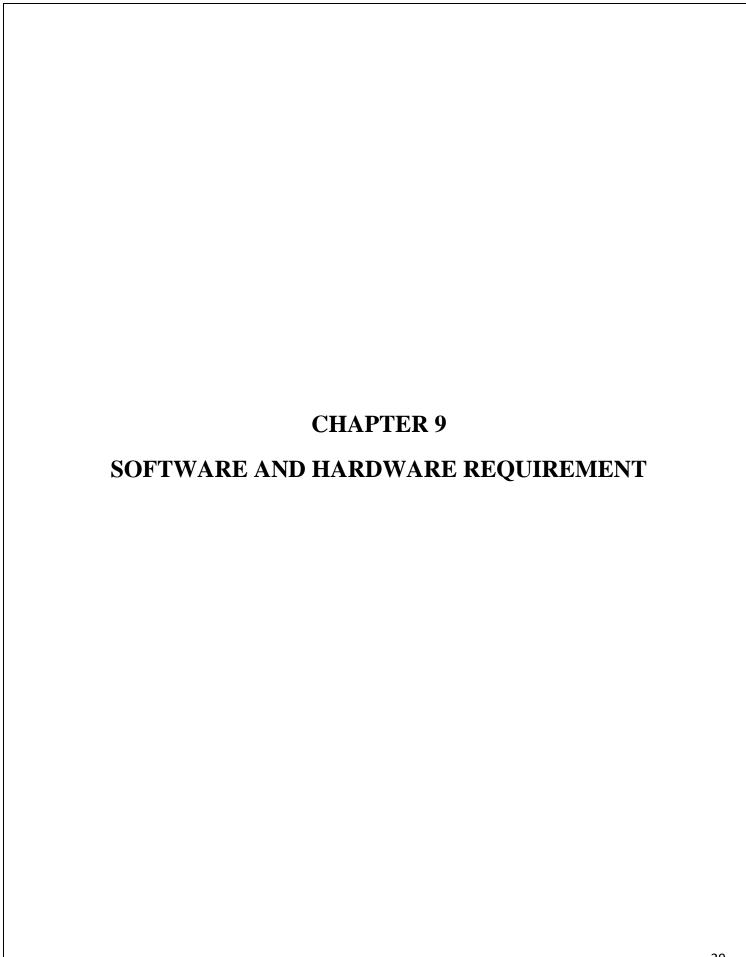
8.3.1 Characteristics of PHP

PHP's practical nature is made feasible by five crucial traits, which are listed in 8.3.1:

- Minimalism
- Performance
- Protection
- Adaptability
- Continuity

8.3.1 Disadvantages of PHP:

- PHP is open source, it is not secure.
- Why Making desktop applications is bad.
- PHP code is difficult to maintain since it is not ideal for huge web applications.
- There isn't much modularity.
- Modification Issue PHP forbids changing the fundamental behaviours of the webbased programmes.



Software and hardware requirement

9.1 S/W TOOL

- Operating System: Linux, Windows 7, or Windows 10
- Web-based application technology
- Front-End HTML, CSS
- Database My SQL, PHP
- IDE Dream View

(1)Operating System: Linux, Windows 7, or Windows 10. Any of these operating systems can be used for the project's development and deployment. a computer system (OS) is a piece of software that controls computer hardware and software resources and offers standard services for software applications. It serves as a connection between the A shared platform for the creation and use of software is provided by computer hardware and the programmes that run on it.

Popular Microsoft Windows versions include Windows 7 and Windows 10 a computer system. Although Windows 7 was released in 2009, it is still extensively used. In 2020, Microsoft will no longer provide support for this operating system. Windows 10 is Microsoft's most recent Windows version and is still supported. Linux is a popular server operating system that is free and open-source. for usage in personal, professional, and developmental situations. It is regarded for its flexibility, safety, and stability. There are numerous Linux distributions available, or "distros," each having a unique set of capabilities and resources.

The target operating system must be taken into account while creating software projects. Make that the project can be tested and executed on the appropriate system(s). It's also crucial to take into account any potential dependencies or restrictions. Operating system constraints, like those for memory or processing power, are enforced. The popular operating systems Windows 7 and Windows 10 are widely used in the market. Despite being an outdated version, Windows 7 is still widely used by individuals. The most recent version of the Windows operating system is called Windows 10, and provides enhanced security, enhanced performance, and a contemporary interface.

Linux is a well-known open-source operating system that may be easily customised. be customised to match the requirements of the project. In servers, Linux is frequently utilised. It is a well-liked option for web hosting and development.

The project requirements, accessibility of technical talent, and the hardware being utilised are just a few of the variables that influence the choice of operating system. For projects that call for compatibility with, Windows operating systems are typically selected.

Linux is frequently selected due to its stability and versatility over Microsoft technology. No matter which operating system is selected, it is crucial to make sure that the system meets the bare minimal requirements for the project, and that all required drivers and software have been installed and are set up correctly. That way, the project will be more likely to runs without any significant problems and smoothly.

(2)Technology: Because the project is a web-based application, it can through a web browser, accessed. This technology has the benefit of being simple to use. Deployment and access, as users can use the programme from any device with an internet connection. Access to the internet. The term "web-based application" refers to software that a web browser can be used to access a distant server. A web-based application has the benefit of requiring users to not install any software on their local due to the fact that the remote server handles all processing and data storage. This means that users can access the app from any device that has an internet connection. Connection, including laptops, tablets, cellphones, and desktop PCs.

Several web technologies can be utilised to create a web-based application, including incorporating PHP, JavaScript, CSS, and HTML. Hypertext Markup Language (HTML) is used to generate the web pages' content and structure, while CSS (Cascading Style Sheets) Style Sheets) are used to specify the page's design and format. JavaScript is employed. PHP (Hypertext Preprocessor) is used to enhance the pages' functionality and interactivity. On the server side, a preprocessor is utilised to communicate with the database and produce dynamic material.

A multitude of libraries, frameworks, and tools are available in addition to these fundamental technologies. Can be used to improve the functionality of and speed up the development process for a software programme. For instance, Bootstrap is a well-liked front-end framework, which a collection of pre-made HTML, CSS, and JavaScript components that are simple to edit and can be used to build a responsive, cutting-edge user experience. Laravel is a well-known framework for the backend that offers a variety of tools and functionality for creating scalable and reliable online apps.

Overall, the selection of a web-based application's technology will be dependent on the the project's specific requirements, as well as the knowledge and resources of the developing group.

Web-based apps have grown in popularity in recent years as a result of their accessibility and usability. Any device with an internet connection can access them. Eliminating the requirement for consumers to install any software or the software on their hardware. Due to this, web-based apps are a practical and cost-efficient choice for both users and developers. Web-based applications are also independent of platforms, which every operating system can access them. This facilitates the work of developers.

To build the application and release it across several platforms without having to For each operating system, there are different versions of the application. Web-based programmes are extremely simple to update and manage. given that the application developers can update the programme and publish it to users once it without having them to explicitly download and install updates, updates are delivered to users.

By doing this, users are always able to access the most recent version of the application. without exerting any additional effort. Creating a web-based application for the disease prediction system offers a number of advantages. Numerous benefits in terms of affordability, accessibility, and platform independence, simplicity of upkeep, and updates

(3)Integrated Development Environment (IDE): The project's IDE is a well-liked and extensively used IDE for web development is Dream View. It provides tools for debugging, code highlighting, and auto-completion. which hasten and improve the development process. An integrated environment for the development, testing, and deployment of software applications is offered by the Development Environment (IDE) software programme. The productivity may be significantly affected by the IDE selection.

and effectiveness of developers, as it offers features and tools that might make their jobs easier.

The open-source IDE Dream View is well-liked by web developers. It is intended to give web developers a streamlined and effective experience applications. The IDE has many features that can assist developers, including as syntax highlighting, code completion, and code inspection tools. faster and more precisely when writing code.

Dream View has a number of major benefits, including built-in compatibility for popular web languages for web development like HTML, CSS, and JavaScript. This facilitates for allowing programmers to create, test, and debug code in these languages without switching between a number of tools.

A large number of plugins are supported by Dream View in addition to its main capabilities. and add-ons that can be utilised to increase its capabilities. For instance, there plugins for interacting with version control systems like Git are also available. Plugins for linting and code formatting, two monotonous processes, are automated.

Additionally, Dream View has a built-in web server that enables developers to test they can run their programmes locally instead of deploying them to a distant server. That may be incredibly helpful for developers during the development process because it enables testing before publishing their applications on a platform, developers test and manufacturing server.

Dream View's community-driven development strategy is yet another perk. Given that the IDE is open-source, anyone can contribute to its development and development. Consequently, there is already a thriving community of developers and users who have produced numerous tools, extensions, and plugins that can be used dream View is used.

In conclusion, Dream View is a strong and adaptable IDE that can be used to create a variety of web apps. Because of its extensive feature set, extensibility, and community support, it is a preferred option among web developers.

A popular Integrated Development Environment (IDE) for web development is Dream View. It offers a variety of capabilities and is open-source software. Make the development process more effective and quicker. Code highlighting is one of Dream View's standout features. This attribute the syntax of the code is highlighted, making it simpler to read and spot mistakes. Additionally, auto-completion is offered for frequently used code snippets, which might save development work and time. The debugging tools in Dream View are another feature. The IDE features an integrated a debugger that enables programmers to locate and correct faults in their code. Debugging tool may step through the code line by line, assisting programmers in locating mistakes are taking place.

Additionally, Dream View offers a selection of plugins and extensions that can be utilised to amplify its capabilities. These plugins might enhance the IDE or give it additional functionality. There are plugins, for instance, for code formatting, version control, project management, too.

Dream View's support for is one of the benefits of utilising it for web development because it several different web technologies. JavaScript, HTML, CSS, and the IDE all other widely used languages for web development. Additionally, it supports well-known web frameworks like Vue, Angular, and React. The simplicity of use is yet another benefit of Dream View. The IDE has an intuitive interface and offers detailed feature documentation. This facilitates for Using the IDE; developers of all ability levels may create web apps.

Additionally, Dream View offers a number of project management tools, such as Git task automation and integration. These instruments can assist developers in managing their more effectively, and work more closely with other developers successfully. Dream View is an all-around strong and adaptable IDE for web development. It is a great option for creating webbased applications due to its extensive feature set, user-friendly interface, and support for web technologies.

(4)Front-End: HTML and CSS are used to create the application's front-end. These are the common markup languages for creating and designing websites their design and layout. The area of the application that users directly interact with is called the front-end. It is in charge of creating the user interface and offering a simple experience. Two of the most significant technologies used in front-end programming. A markup language called HTML is used to create the structure. Whereas CSS is used for style and layout of web pages.

Hypertext Markup Language, or HTML, is the widely used programming language. for building websites. It gives developers access to a set of tags and properties. To set up a web page's structure and organisation. HTML offers a semantic web. web pages should have structure so that search engines can more easily interpret their content and for programmers to keep the code up to date.

Cascading Style Sheets, or CSS, are used to style the HTML information. It offers a method to specify the look of web pages, including colours, fonts, and layout and placement. CSS applies style directives to HTML elements, enabling developers to manage how the content

is presented. Modern, responsive websites are built on a foundation of HTML and CSS.An essential component of front-end development is responsive design, as It makes it possible for web pages to adjust to various screen sizes and devices. It is accomplished. By using media queries, which let programmers specify many styles adapted to various screen sizes. JavaScript, a scripting language, is used by front-end developers in addition to HTML and CSS computer language used to make web pages interactive. JavaScript is employed. for managing user input, developing dynamic user interfaces, and developing asynchronous queries made of servers. With the constant creation of new frameworks and libraries, frontend development is a field that is continually expanding. Several well-liked front-end frameworks are Angular, React, and Vue.js. These frameworks offer a set of guidelines and tools for developing contemporary online applications, and they are frequently combined with HTML, Front-end development, which includes CSS, JavaScript, and other technologies, is crucial to the creation of the web's user interface and user experience applications. JavaScript is used to bring interaction and dynamic elements to web sites, while HTML and CSS serve as the foundation for their structure and design functionality. The field of front-end development is always changing, with new technologies Tools and frameworks are constantly being created.

The user-facing portion of the project is the front-end of the application engage with. The graphical user interface (GUI) that users utilise to input data is part of it. View the expected outcomes, and describe their symptoms. The structure was created using HTML.

CSS is used to design and layout the content of the web pages, but not their appearance. The common markup language used for is called HTML (Hypertext Markup Language). making websites. It offers a collection of components that specify a web's structural elements. such as paragraphs, lists, and headings. A text-based language called HTML is simple to use and learn. Additionally, it works with a variety of web browsers and gadgets. Consequently, it is a flexible language for creating web pages.

CSS (Cascading Style Sheets) is a language for stylesheets that is used to describe the appearance and layout of a website. CSS outlines how HTML elements should be styled and laid out typefaces, colours, margins, and borders, for example. CSS enables programmers to divide the separation between a web page's design from content, making it easier to update and maintain web page. Additionally, CSS may be used to construct dynamic, responsive web pages that can various devices and screen sizes. Using HTML5 and CSS3, the project's frontend will be created.

Which are the most recent versions of HTML and CSS standards offer new functions and improvements for creating contemporary web pages. HTML5 features new form controls like date pickers and range sliders and offers new components for handling multimedia material like audio and video. CSS3 adds new capabilities for enables new effects and animations while enabling the creation of complex layouts like grid and flexbox.

The target consumers' wants and preferences will be taken into consideration when designing the front-end using a user-centered approach. The GUI will be made in order to With simple and clear instructions and feedback signals, the system is intuitive and simple to use. Additionally, the front-end will be enhanced for usability and performance.

The application is accessible and usable on a variety of platforms and devices. The developers will use a number of tools and techniques to create the project's front-end. Frameworks like jQuery, React, and Bootstrap. These instruments offer pre-built customizable templates and parts that can be used into the project, decreasing the effort and time spent on development. Additionally, they offer tools for enhancing the website's functionality and usability, including its responsive design and advanced web applications. The project's front-end is crucial in delivering a user-friendly and Users can engage with the system using an easy-to-use interface. It must be thoughtfully developed, to guarantee that users can use the programme successfully, it must be optimised and accessible.

Hypertext Markup Language, or HTML, is a language used to structure web pages. Text, photos, and video content on the web. HTML is a reasonably easy language. It is a popular language used by web developers worldwide and is easy to learn. It serves to make web pages that can be seen on any platform, including desktop computers and mobile devices mobile device.

On a web page, HTML employs tags to organise the material. Angle is used while writing tags. using brackets, like tagname>. There are opening and closing tags for each tag. Between the opening and closing tags, content is put. The use of HTML tags can be a web page should contain headings, paragraphs, photos, links, and other content types. The ability to establish hyperlinks is one of HTML's most significant features. Clickable links called "hyperlinks" can direct users to other web pages or other websites.

many sections of the same website. The "a>" or "anchor" tag is used to construct hyperlinks. The href attribute is used with the a> tag, which provides the page's URL or the location on the page where the link should lead. Several additional HTML tags are also available, and they can be used to create structure and adding formatting to a website. To make a top-level heading, for instance, use the h1> tag. To construct a paragraph of content, use the p> tag. An image tag is an used to generate headings and footers for web pages, while the ul> and ol> tags are lists that are arranged and unordered, respectively.

In conjunction with CSS (Cascading Style Sheets) and HTML, Web sites can be dynamic and interactive by using JavaScript. To add styles to a website, utilise CSS. Web page, such as font styles, colours, and layouts, while JavaScript is used to add animations and form validation are examples of interactivity.

There are many resources available online for learning HTML, including tutorials, courses, and reference guides. Given that HTML is a primary language for the web Anyone wishing to create websites or work in web development must possess this crucial talent developing a website.

Additionally, CSS may be used to construct dynamic, responsive web pages that can various devices and screen sizes.

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can be used into the project, decreasing the effort and time spent on development. Additionally, they offer tools for enhancing the website's functionality and usability, including its responsive design and advanced web applications.

The project's front-end is crucial in delivering a user-friendly and users can engage with the system using an easy-to-use interface. It must be thoughtfully developed, to guarantee that users can use the programme successfully, it must be optimised and accessible efficiently.

The fact that JavaScript is a client-side language is one of its distinguishing qualities. This means that rather than being carried out by a server, it is done so by the user's web browser. This enables more responsive and interactive web sites should be developed, since the user's Some operations can be carried out by the browser without requiring server communication. Additionally, JavaScript is an extremely adaptable language that can be utilised in a variety of several uses. It is frequently employed to design user interfaces since it may DOM (Document Object Model) manipulation is used to dynamically update the content. depending on user interaction or other events, of a web page.

Working with APIs (Application Programming Interfaces) is another important element of JavaScript. To retrieve and manipulate data from external sources, use programming interfaces. This building web applications that communicate with other web services is great for it. such as weather APIs or social media platforms. Due to the fact that JavaScript is an object-oriented language, it can be utilised to generate reusable pieces of code that are simple to incorporate into larger applications. This makes it the perfect language for creating intricate web apps since it enables programmers to divide the functionality into more manageable chunks.

JavaScript's potential vulnerability to security threats like code injection and cross-site scripting (XSS) is one of its drawbacks. But there are lots of top techniques and security precautions that developers can implement to stop these kinds of assaults.

JavaScript is a strong, adaptable language that is necessary for contemporary web development. It is a crucial tool since it can produce dynamic, interactive web sites a tool for creating online applications and user interfaces that are compelling. It is a crucial instrument for creating contemporary web apps and is backed by all major web browsers. Because JavaScript is a client-side programming language, Instead of the server, it operates on the

client's computer. This enables quicker reaction time.faster loading times and a more engaging user interface.

The ability of JavaScript to alter the Document Object is one of its primary characteristics. the hierarchical structure known as the model (DOM), which represents the content and the design of a website. The DOM can be modified and handled using JavaScript, enabling the development of dynamic, interactive web pages.

Additionally, JavaScript is utilised for form validation, which ensures that user inputs are accurate. before being sent to the server, be sure it's valid and accurate. This lessens the chance of mistakes, enhances the user experience overall. JavaScript can also be used to generate effects and animations like modal windows, tooltips, and drop-down menus. The generation of asynchronous queries using JavaScript is another significant use. AJAX, a server, is used. This makes it possible for web pages to update and without having to force a complete page refresh, obtain data from the server. That may provide real-time updates and lowering the amount of data required would enhance the user experience. of time required to retrieve data.

Additionally, JavaScript is combined with other web technologies like CSS and To make responsive site designs, use HTML. This entails that a website's layout and design can automatically change to accommodate various screen sizes, making it more accessible and user-friendly across a range of devices.

Last but not least, JavaScript is an open-source language with a sizable collection of tools and frameworks at their disposal. It is therefore a useful and effective tool for constructing intricate online applications, which guarantees that it will be a crucial technology for years to come.

(5)Database: The database used for the project is MySQL, which is a popular open-source relational database management system. It is used to store and retrieve data related to the disease prediction system. PHP is used as the server-side scripting language to interact with the database and generate dynamic web pages. projects of different sizes. It is a client-server system, which means that the database is managed by a server and accessed by clients. MySQL supports a variety of data types, including numeric, string, and date/time, and has built-in support for indexing, sorting, and searching data. It also supports advanced features such as transactions, replication, and backup and recovery.

PHP is a server-side scripting language used for developing web applications. It is a popular choice for web development due to its ease of use, flexibility, and ability to interact with databases. PHP is used to generate dynamic content on the server-side, allowing web pages to be customized for individual users based on their preferences and input. It can be embedded in HTML code and can interact with MySQL and other databases.

MySQL and PHP are often used together to create dynamic, data-driven web applications. The combination of these technologies allows for the creation of complex, interactive websites that can handle large amounts of data. MySQL is used to store and retrieve data, while PHP is used to generate the web pages that display that data. This combination of technologies is commonly referred to as LAMP (Linux, Apache, MySQL, PHP) and is widely used in web development.

MySQL is a powerful database management system that can be used to store large amounts of data. It is highly scalable, which means that it can handle a large number of concurrent users and can grow as the needs of the application grow. It is also highly secure, with built-in encryption and authentication features that help protect sensitive data. MySQL is easy to use, with a simple and intuitive interface that allows developers to create, modify, and manage databases quickly and easily.

PHP is a popular server-side scripting language that is used to create dynamic web pages. It is easy to learn and has a large and active developer community, which provides support and resources for developers. PHP is compatible with a wide range of operating systems and web servers, making it a versatile language that can be used for a variety of projects. PHP is also highly scalable, which means that it can handle large amounts of traffic and can be used to create complex web applications.

MySQL and PHP are both open-source technologies, which means that they are free to use and can be customized to suit the needs of the project. They are also supported by a large and active community of developers, who provide regularupdates and bug fixes. This makes them a cost-effective and reliable choice for web development projects.

In conclusion, MySQL and PHP are powerful and flexible technologies that are widely used in web development. They are easy to learn, highly scalable, and can be used to create complex, data-driven web applications. The combination of MySQL and PHP is a popular choice for web developers due to its versatility, ease of use, and cost-effectiveness.

MySQL is a widely used open-source relational database management system that is suitable for web-based applications. It is fast, reliable, and scalable, making it a popular choice for

A database is an organized collection of data that is stored and accessed electronically. It is designed to manage large amounts of data efficiently and enable fast and accurate retrieval of the required information. Databases are used in various industries and domains such as healthcare, finance, e-commerce, and more. In the context of the disease prediction system, the database is an integral component that stores patient data and provides insights into disease patterns.

MySQL is one of the most popular open-source relational database management systems in use today. It is a widely used database for web applications and is known for its reliability, ease of use, and scalability. It offers a variety of features such as data security, transaction management, and backup and recovery capabilities. MySQL is a cost-effective solution that is well suited for small to medium-sized applications.

PHP is a server-side scripting language that is widely used for web development. It is known for its simplicity, flexibility, and ease of integration with various databases. PHP can connect to a MySQL database using the MySQLi extension, which allows for easy and secure data retrieval and storage. It is a popular choice for web developers who want to create dynamic and interactive web pages.

In the disease prediction system, the database schema is designed to store patient data such as age, gender, medical history, symptoms, and other relevant information. The schema is designed to be flexible and scalable to accommodate changes in the system and the addition of new data elements. The database is designed to ensure data integrity and security, and access to patient data is restricted to authorized personnel only.

The database is a critical component of the disease prediction system as it stores the data required for machine learning models to predict diseases accurately. The machine learning models are trained using patient data, and the database is used to store and manage this data. The database is also used to store the results of the disease prediction models and to generate reports on disease patterns and trends.

To ensure data accuracy and integrity, the database is subjected to rigorous testing and validation. Data validation is performed to ensure that the data entered into the database is accurate, consistent, and meets the required data quality standards. Testing is performed to

ensure that the database functions correctly and meets the performance and scalability requirements of the disease prediction system.

the database is a critical component of the disease prediction system, and its design and implementation play a vital role in ensuring accurate disease prediction and improving patient outcomes. The use of MySQL and PHP provides a robust and reliable solution for storing and retrieving patient data, and the database schema is designed to be flexible and scalable to accommodate changes and additions to the system. Through rigorous testing and validation, the database ensures data accuracy, consistency, and integrity.

A database is a collection of data that is organized in a specific way to allow for easy storage, retrieval, and management of the data. It is a crucial component in many software applications, including web applications.

There are several types of databases, including relational, NoSQL, object-oriented, and hierarchical databases. Each type has its own unique features and is suited for specific types of applications.

Relational databases are the most widely used type of database and are based on the relational model of data, which uses tables to store and organize data. Each table consists of columns, which represent different attributes of the data, and rows, which represent individual data records.

MySQL is a popular open-source relational database management system that is used for many web applications. It is known for its reliability, scalability, and ease of use. It uses a SQL-based language for querying and managing data.

PHP is a popular server-side scripting language that is commonly used with MySQL to build dynamic web applications. It is open-source and has a large community of developers who contribute to its development.

When designing a database, it is important to consider factors such as data integrity, security, and scalability. A well-designed database can improve the performance of the application and make it easier to maintain and update over time.

Database administrators (DBAs) are responsible for managing and maintaining databases. Their responsibilities include monitoring database performance, optimizing queries, and ensuring data security.

Data modeling is an important part of database design, which involves identifying the entities and relationships between them in order to create a logical data structure. This process can help to ensure that the database is well-organized and efficient.

Data normalization is another important concept in database design, which involves organizing data in a way that minimizes redundancy and ensures consistency. This can help to improve data integrity and reduce the risk of errors and inconsistencies.

databases are a critical component in many software applications, and a well-designed and maintained database can help to improve the performance and reliability of the application.

MySQL = is a widely used open-source relational database management system. It is used for managing and organizing structured data in tables, and for querying, updating and deleting data. MySQL is a popular choice for web applications due to its ease of use, high performance, and scalability. It is used in a variety of applications including web applications, e-commerce websites, and enterprise software.

MySQL is based on the Structured Query Language (SQL), which is a standard language used for accessing and manipulating data in a relational database. MySQL supports a wide range of SQL statements, including select, insert, update, and delete. It also supports complex queries and joins, allowing for efficient data retrieval and processing.

MySQL provides a range of features that make it a popular choice for developers. It is highly reliable and provides robust data protection, ensuring that data is stored securely and is not lost or corrupted. It also supports multiple users and concurrent transactions, allowing for multiple users to access and modify data simultaneously.

MySQL is highly customizable and extensible, with a range of plugins and add-ons available for adding functionality and improving performance. It also integrates easily with other web technologies such as PHP, allowing for efficient and streamlined development.

One of the key advantages of MySQL is its performance. It is designed to handle large volumes of data and high traffic loads, making it ideal for use in web applications and other high-performance applications. It also provides a range of tools for monitoring and optimizing performance, allowing developers to identify and resolve performance issues quickly.

MySQL is available in both open-source and commercial versions, providing flexibility for developers and organizations with varying needs and budgets. The open-source version is free

to use and provides a range of powerful features, while the commercial version provides additional features and support options.

MySQL is a powerful and flexible database management system that is well-suited for use in web applications and other high-performance applications. Its ease of use, scalability, and performance make it a popular choice for developers and organizations around the world.

MySQL is a popular open-source relational database management system (RDBMS) that is widely used in web applications. It is a client-server system that is designed for use in multiuser environments, and it is commonly used in conjunction with PHP or other server-side scripting languages. MySQL was originally developed by MySQL AB, which was later acquired by Oracle Corporation.

One of the key benefits of MySQL is its scalability. MySQL can handle very large databases and can scale to meet the needs of large web applications with high traffic. It also provides high performance, reliability, and security. MySQL uses a variety of storage engines to provide different types of functionality and optimization for different types of data and applications.

MySQL is a SQL-based database, which means that it uses Structured Query Language (SQL) to interact with the database. SQL is a standard language for managing relational databases, and it is used to create, modify, and retrieve data in the database. MySQL provides a wide range of SQL features, including support for stored procedures, triggers, and views.

MySQL also provides a number of features for data security and protection, such as user authentication and access control. It supports encryption of data in transit and at rest, and it provides tools for data backup and recovery. MySQL also provides tools for monitoring and managing the database, such as the MySQL Workbench graphical user interface and the MySQL command-line interface.

MySQL is a widely used database system and is supported by a large community of developers and users. There are many resources available for learning and using MySQL, including documentation, online forums, and tutorials. MySQL is also compatible with a wide range of operating systems and platforms, including Windows, Linux, and macOS.

Overall, MySQL is a powerful and flexible database system that is well-suited for use in web applications. It provides a wide range of features for managing data, and it is widely supported by developers and users around the world.

PHP= (Hypertext Preprocessor) is a server-side scripting language used for developing dynamic web pages and web applications. It was created in 1994 by Rasmus Lerdorf and has since evolved into a popular and widely used programming language.

PHP is a free and open-source language, meaning that it is available for anyone to use and modify without any licensing fees. It is highly compatible with a range of web servers and operating systems, making it a versatile language for web development.

One of the main advantages of PHP is its ability to interact with databases. It supports a variety of databases, including MySQL, which makes it a popular choice for web developers who need to build database-driven web applications. PHP can be used to insert, retrieve, update, and delete data from databases, and it can also be used to generate dynamic web pages based on user input.

PHP is also highly extensible, meaning that developers can create custom functions and modules to extend the functionality of the language. This makes it possible to create complex web applications with ease.

In addition, PHP is highly scalable and can be used to build applications that can handle large amounts of traffic and data. It is also highly secure when used properly, with features such as input validation and data sanitization to prevent common security vulnerabilities.

PHP has a large and active community of developers, which has led to the creation of numerous libraries, frameworks, and tools that can be used to simplify web development. Some popular PHP frameworks include Laravel, Symfony, and CodeIgniter, which provide pre-built components and features to speed up development.

PHP is a powerful and flexible language that is well-suited for web development. Its ability to interact with databases, its extensibility, and its scalability make it a popular choice for building web applications of all types and sizes.

It is an open-source, cross-platform language that can be embedded into HTML code, making it a popular choice for developing dynamic web pages. Originally created in 1994 by Rasmus Lerdorf, PHP has evolved into a powerful programming language with a large community of developers and users.

One of the key features of PHP is its ability to communicate with databases, such as MySQL. This allows developers to create dynamic web pages that can retrieve and manipulate data

from a database. In addition to database connectivity, PHP also supports a wide range of other features, such as file handling, session management, and email sending.

PHP is easy to learn and use, making it a popular choice for beginner developers. Its syntax is similar to that of other C-based programming languages, such as C++, Java, and JavaScript, which makes it easy for programmers to switch between different languages. The language is also well-documented, with a large number of tutorials, guides, and examples available online.

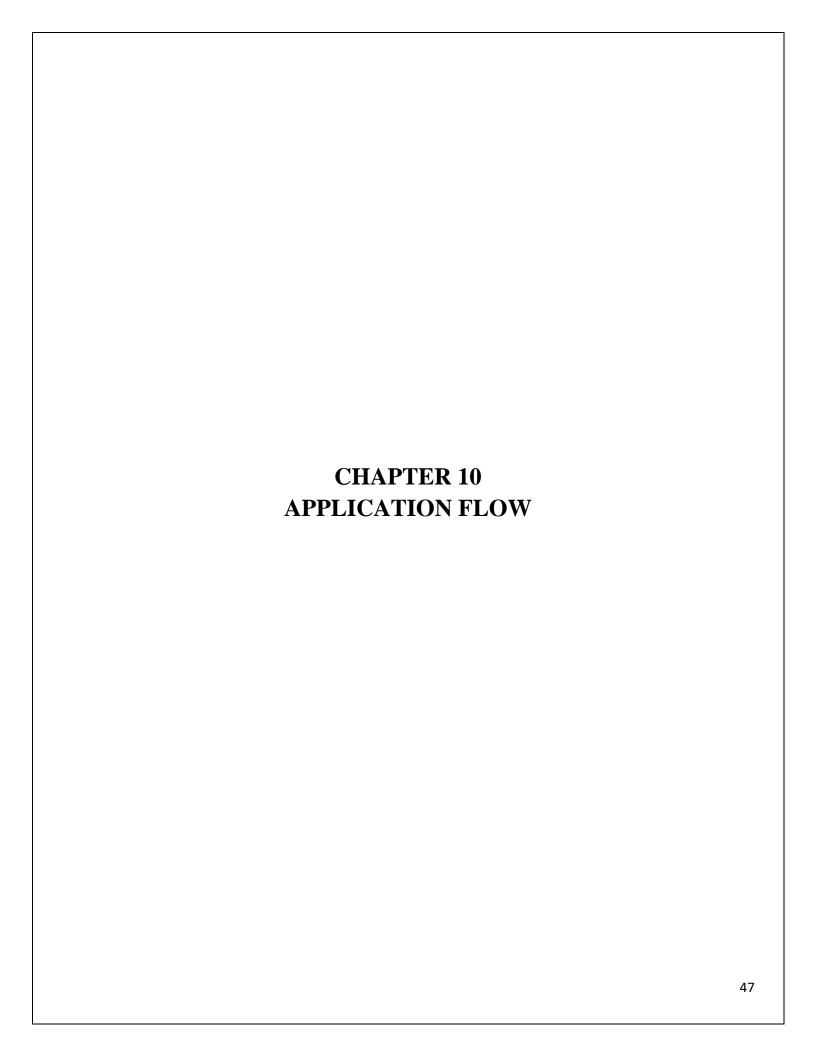
Another advantage of PHP is its compatibility with a wide range of web servers, including Apache, Nginx, and Microsoft IIS. This makes it easy to deploy PHP applications on a variety of platforms and operating systems. Additionally, PHP supports a wide range of operating systems, including Windows, Linux, and macOS.

PHP also has a large and active community of developers, who contribute to the language's development and create libraries and tools to extend its functionality. There are a wide range of PHP frameworks available, such as Laravel, Symfony, and CodeIgniter, which provide prebuilt components and tools for building web applications quickly and efficiently.

In conclusion, PHP is a powerful and versatile server-side scripting language that is widely used for web development. Its compatibility with a range of web servers and operating systems, as well as its support for database connectivity and other features, make it a popular choice for building dynamic web applications. With its large and active community of developers and users, PHP is likely to remain a popular choice for web development for years to come.

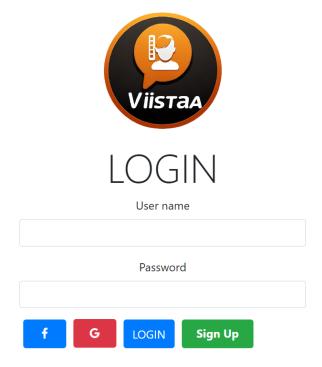
9.2 H/W REQUIRED

- Processor Intel Core I3 2nd Generation
- Speed 2.3 GHz
- RAM 4 GB RAM
- Device VGA/SVGA

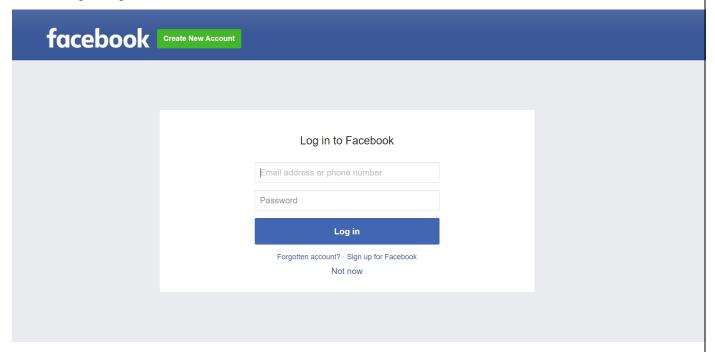


Application Flow

• Login Page



• FB Login Page

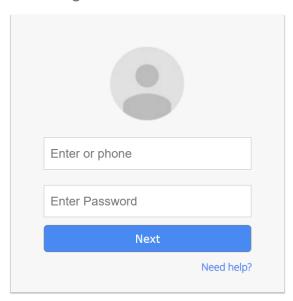


• Gmail Login Page



One account. All of Google.

Sign in to continue to Gmail



• Sign Up Page

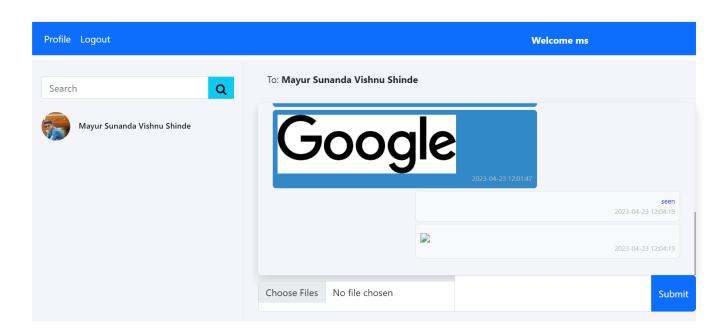
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S	ign Up	
Name		
User name		
Password		
Profile Picture		
Choose File	No file chosen	
Sign Up Log	gin	

• User Dashboard

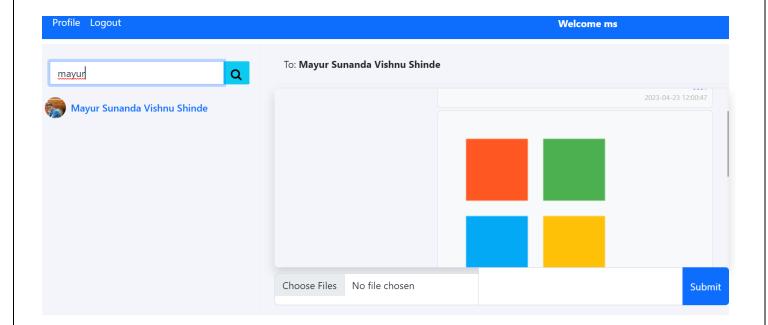
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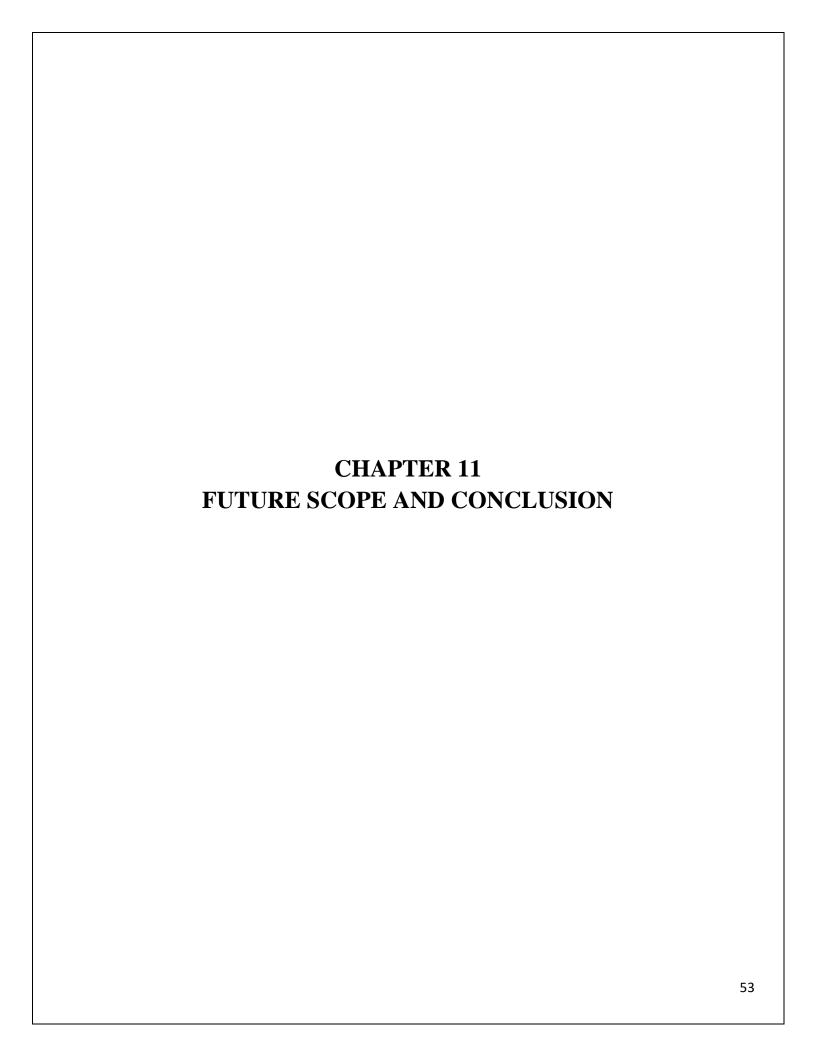


• Chat Screen Page



• Search Another User Name





Future Scope and Conclusion

11.1 Future Scope

- Video calls will be added
- Voice recording can be added
- Enhancing different text style and font size
- Introduction of animations
- Instant document attachment
- As nowadays we can clearly witness the increase in use of computers and technology to consider a huge amount of data, computers are being used to perform various complex tasks with commendable accuracy rates.
- Machine learning (ML) is a collection of multiple techniques and algorithms which permit computers to execute such complex tasks in an simplified manner.
- It is also used in both academics which is for students or learners and also in industry to make accurate predictions and use these diverse sources of dataset and information.
- Till date we can say we have grown in the fields of big data, Machine learning, and data sciences etc. and have been a part of one of those industries which were able to collect such data and the staff to transform their goods and services in a desired manner.
- The learning methods developed for these industries and researches offer excellent potential to further improvise medical research and clinical care for the patients in the best possible manner.
- Machine learning uses mathematical algorithms and procedures which are used to describe the relationship between variables used in the model and the others.
- Though these algorithms work in different and unique manners depending on the way in which they are developed and used by the researchers. One way is to consider their supreme goals.

11.2 Conclusion

In this work we have designed and implement a system that allows desktop device to provide the ability of doing free of charge chatting between two smartphones.

This solution for desktop devices is dependent upon the capabilities in the programming environment on the devices. MIDP, which is a Javascript programming environment for desktop pc, provides simple syntaxes support that limits.

The chat app provides a better and more flexible chat system. Developed with the latest technology in the way of providing a reliable system. The main advantage of the system is instant messaging, real-world communication, added security, group chat, etc.

This application may find the best demand in the market for most organizations that aim to have independent applications.

The most important points that are concluded throughout the design and the implementations of this software are:-

- **1.** The evaluation shows that the design consumes minimal power from the hardware.
- **2.** This software application has been to be desktop manufactured independent that means it can be run on any type of pc support Series 60 and MIDP 2.0.
- **3.** It is free of charge and it can be run successfully even if there is no service provider network in the area.
- **4.** The programmer who uses J2ME to create new application does not need to know the tiny detail of the ms OS with the programmers who uses C++.

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