A Project Report on

MedLinz

Submitted in partial fulfilment of the

Requirements for the award of

Diploma in

Information Technology

by

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2020-2021

DEPARTMENT OF INFORMATION TECHNOLOGY

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CERTIFICATE

This is to certify that the Project report entitled

MedLinz

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Is a bonafied work carried out under supervision of **Prof.L.D.Vilhekar** and it is submitted toward the partial fulfilment of the required Government Polytechnic, Nagpur for the award of Diploma in Information Technology

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Place: Government Polytechnic, Nagpur

Principal

Date: June 1,2021

Government Polytechnic Nagpur

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has completed the project work under my guidance and supervision and that, I have verified the work for its originality in documentation, problem statement, implementation and results presented in the dissertation. Any reproduction of other necessary work is with the prior permission and has given due ownership and included in the references.

Place: Government Polytechnic, Nagpur

Date: June 1,2021

Signature of Guide

Prof.L.D.Vilhekar

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Today on completion of this project, the persons I need to thank the most who have helped me throughout the making of this project dissertation and without whose help the project would not have seen the light of the day.

Primarily, I submit my gratitude and sincere thanks to my guide **Prof. L. D. Vilhekar** (Lecturer, Information Technology), for his constant motivation and support during the course of the work for project. I truly appreciate and value his esteemed guidance and encouragement from the beginning to the end of this project. I am thankful to our Head of the Department **Dr. A. R. Mahajan** and **Prof. L D. Vilhekar**, (Project Co-ordinator) for their unwavering moral support and motivation during the entire course of the Project.

I would also like to thank our Principal **Dr. M. B. Daigavane** who encouraged us and created a healthy environment for all of us to learn in best possible way. I would like to thank all the staff members of our college and technicians for their help in making this project a successful one.

Last but not the least, I would like to thank all my Friends and Family members who have always been there to support and helped me to complete this project in time.

Miss. Akanksha Padgilwar

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SEM-VI Diploma In IT

Abstract

India is one of the most religiously and ethnically diverse nations in the world, with some of the most deeply religious societies and cultures. Religion plays a central and definitive role in the life of many of its people. Although India is a secular Hindu-majority country, it has a large Muslim population.

India is called the 'Land of unity in diversity' because it consists of varied culture, customs etc. The main religions of India are- Jainism, Sikhism, Zoroastrianism, Buddhism, Christianity because India is home to many people with different religions, castes, cultures and traditions.

India being 2nd most populated country with huge area with huge population but it cannot satisfy the doctor to patient standards made by WHO. The organisation states it to be 1:1000 but in case of India almost each doctor has the ratio of 1:1500.

Keeping this idea in mind to reduce the current ration to the one recommended by WHO; We at MedLinz have proposed the solution to be a software that can help employee find a job they wish to and employer can compare different application at same time.

Our vision is to simplify healthcare recruitment in India, and support healthcare professionals achieve their full potential by linking them with the right healthcare employers and eventually improve the lives of patients.

Our mission is to provide a platform catering for healthcare professional needs and streamlining services used by them for effective healthcare management and recruitment system in India.

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Chapter 1

Introduction

India is a country with huge population to be exact 136.64 cr as of 2019. A huge population brings a lot to stake for the country and its people. But in this country with huge population only 12.5 lakh doctors which means 1 doctor for 1456 people. WHO (World Health Organization) recommends it to be 1:1000 but as for India it exceeds by 456 patients.

As medical sector is playing vital role in current situation (pandemic), Not only a lot of things are at stake but we are also losing young lives. We are also suffering from lack of skilled doctors as India has only 3.5 lakh of specialized doctors. On this background we are proposing innovative solution in the form of our project.

This project introduces a practical application towards the growth in Employment. Here, we are providing platform in "Medical field" according to your Skills you can choose your job and its also based on your education where you can mention your qualifications and other and also If you have previous experience it will be most beneficial.

Every Individual and organization can use this web application to connect people especially the job seekers, or the ones who are looking for the employee. For the betterment of our country we would like to propose and bring this application to use for the ones who are looking for a appropriate job and for the ones who are in search of employee.

Web Application is based on technologies like HTML/CSS for the front-end, cloud computing and data handling will be done with php. The main categories included are Hospital, Attendant, Pathology lab, Medicals and with special option to post your requirement as in form of Post Job.

Purpose

The purpose behind this project is to increase the employment in India and also to provide medical facilities and easiness, to make sure anyone with required qualifications can apply for service. To fulfil the increasing requirements of medical sector, so that people can post a job and offers to others. It also works on concept of digital India. Bringing technology in life and helping people's to grow professionally this is where we aim as in the form of our web application MedLinz.

MedLinz is web application which allows user to post a job as well as to apply for the job application should be free to use from either a mobile Brower or similar services.

Scope

- The motivation to create this project has many sources lockdown being one.
- Interest to develop a good user friendly website using a database.
- To increase my knowledge horizon in technologies like. CSS, HTML, PHP, Oracle database
- To get more people to word in medical field.
- To develop a web application for front-line the employee and employee

Chapter 2

Communications and Planning

Communication {Background}

MedLinz is an online web application where the customers can apply for a job in medical sector online. Through a web browser the customers can search for a job by its title or city later can save the jobs for applying. The user can login using his account details or new customers can set up an account very quickly. They should give the details of their name, contact number and their qualifications the user can also give feedback to the website by giving writing at Contact us tab of web application. The site is divided into many categories based on medicals, pathology, hospitals.

Requirement Specification:

We learned and understood the need of the web application for the first phase of the requirement gathering. Then we learned about the technologies that we will need to use for the project to bring it to life. We not only scheduled the time for the project but also divided the project into different phases setting goals to complete.

Learning about the current situation the pandemic doesn't seem to end any time soon as we are hearing the news about the 3rd wave and the lockdown situation seems near again. Taking everything into consideration we worked so we could create a better application for better tomorrow.

Software Engineering Approach

Life cycle or software process is considered as a subset of systems development life cycle. Out of many models for such processes every describing approaches to a spread of tasks or activities that happen throughout the method. Each process model follows a particular well defined life cycle in order to ensure success in the process of software development.

A software process model is an abstract representation of a process. Waterfall approach a classical and oldest a process model to be introduced and adopted wide in software system engineering to confirm success of the project. This model mainly emphasizes exhaustive planning in the early stages thus it helps to reduce design as before they develop. In the waterfall approach, the complete method of code development is split into no of distinct phases. Phases in waterfall model are:

1.Requirement Specification Phase.

2. System and Software Design.

3. Implementation and Unit Testing.

4. Integration and System Testing.

5. Operation and Maintenance.

The waterfall model is a logically sequential design process. Here each phases have distinct role and well defined set of activities and hence the waterfall model is characterized as one should move to a next phase only when its preceding phase is completed and perfected. All the methods and processes undertaken in the waterfall model are distinct as well as clearly visible.

Product function:

•Login/Sign up: - The very first page that appears in front of the user is to create or log in to the account.

•Homepage: -Different functionalities and web application information will appear

•Post Job: This button on the top navigation panel will take you to the page where different post are made from different organizations

•Create Post - This feature of the website allows you to create a post only if you are the user and belong to some organization.

Time Estimation:

Sr.no	Name	Description	timeline
1	Requirement Gathering	Complete analysis of market and gathering of requirement	5-5-2021 to 6-5-2021
2	GUI design	Design GUI with different feature	5-5-2021 to 7-5-2021
3	Synopsis	Submission of the project synopsis	8-5-2021
4	Construction	Construction of the web application	10-5-2021 to 20-6-2021
5	Review	Getting project reviewed by Guide	28-6-2021 to 30-6-2021

Table: Time Estimation

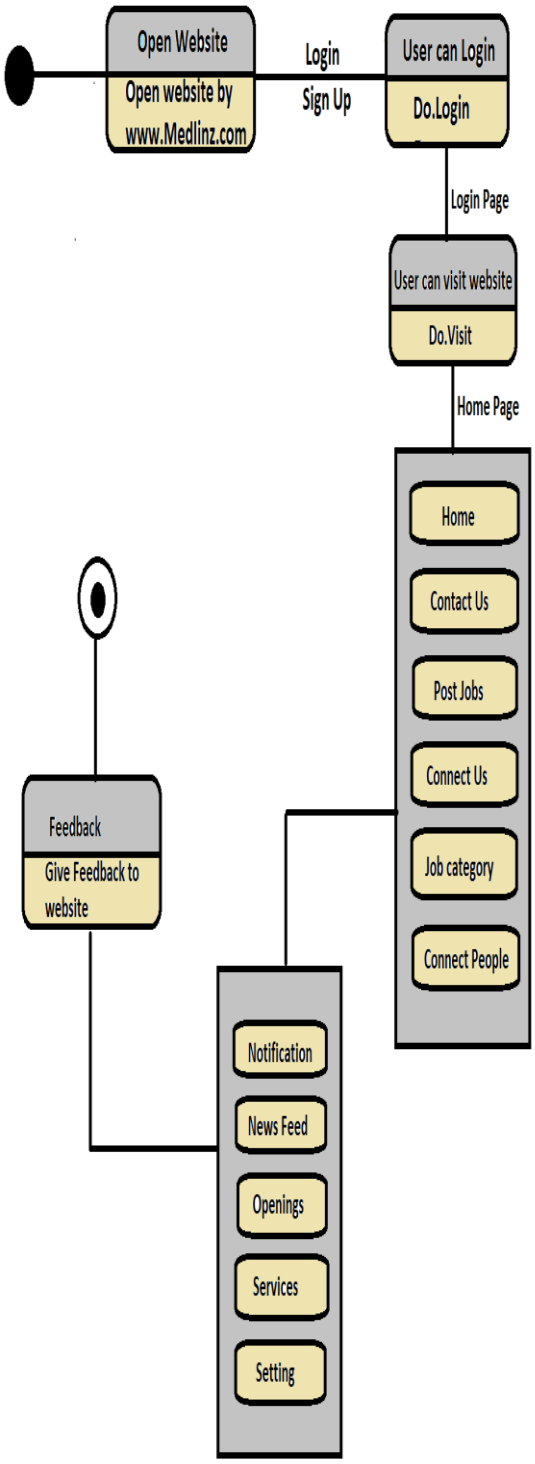

Fig. State Diagram

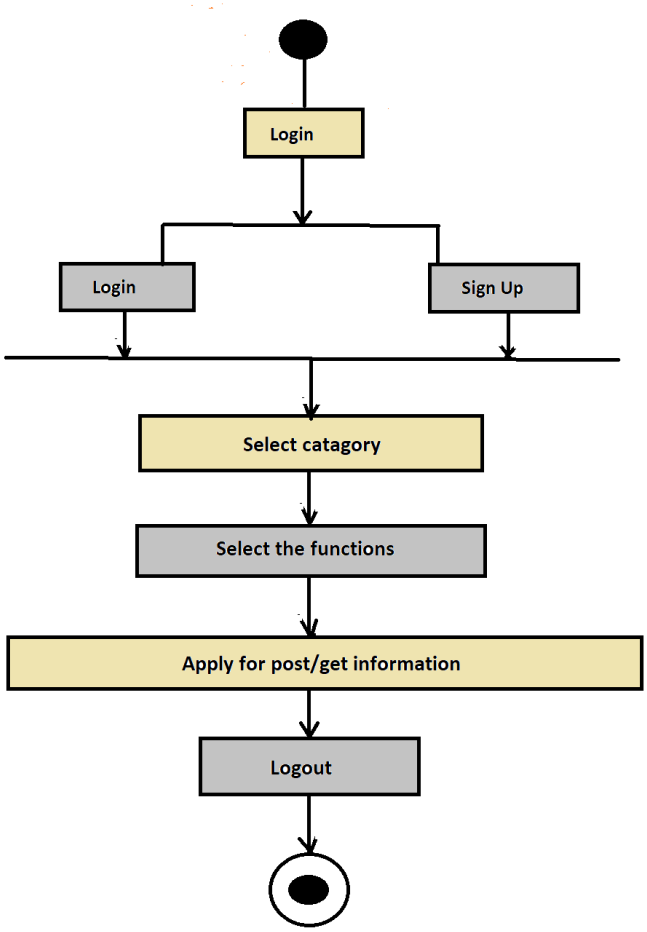

Fig. Activity Diagram

B] Planning

Objective

The main objective of project is to create a online medical site that allows users to apply for services and jobs.

This project is based on medical facilities / sector, pathological jobs etc. Here user can hire and also apply for a job using this website user can search for a job according to their need , and those who wanted to hire people's for work can also post a job so not needing to advertise there need .

- To develop a user friendly web application for medical purpose
- To provide different job offers for people in medical sector
- To support the concept of digital India
- To help in rise of Indian economy
- To make India's health sector stronger.

Scope

Covid-19 has brought everybody's attention to importance of health and well-being. The growing awareness about health and decreasing unemployment rate defiantly lead to lose in per capital expenditure on healthcare and increase the demand for jobs and medical services this site will bring trained manpower in medical sector .

As a job seekers salary calculated and salary guide are helpful in determining of their pay stacks up , however a poster will have right to define salary of jobs .

: Task Breakdown**:**

Project plan is divided into four part

- Synopsis
- Project proposal
- Website
- Report

Synopsis:

It gives a brief info about web page and what is web designing. It contains information about why project has been proposed .The information about problem statement and innovative solution over the problem and also the plan to execute this solution.

WEBSITE:

Website will come under a modelling, Designing and construction process.

1. Home page.
2. About page.
3. Hospital page.
4. Pharmacy page.
5. Post a job page.
6. Pathology lab.

REPORT:

Report will come under a documentation process. The purpose of report is everything to customer and the main purpose is for verification and validation process.

- Introduction
- Communication and Planning
- Modelling
- Construction
- Deployment

Human resources:

The most important role will be played by human resources it will be needed for following purposes.

A person to play leadership.

Leadership Include:

1. Motivation
2. Organization
3. Ideas and Innovation
4. Problem solving

A team is divided into many part:

1. Programming (Coding)
2. Designing
3. Testing
4. Documentation
5. Maintaining

Risk Estimation

THE RMMM PLAN

Risk Mitigation, Monitoring and Management Plan (RMMM)documents all work performed as part of risk analysis and is used by the project manager as part of the overall project plan.RIS is maintained using a database system, so that creation and information entry, priority ordering, searches, and other analysis may be accomplished easily. Risk monitoring is a project tracking activities .

Sr.no	Risk	Possibility	RMM(Solution)
1	Technology risk	20%	By using it, defined it and Dynamic Languages.
2	Deadline Risk	30%	Breaking down task
3	Cyber risk	70%	Strong Firewall and antivirus
4	Customer and Publisher risk	25%	By providing customer and publisher policy
5	Delivery Service risk	50%	We will create a policy for both customer and delivery service.

Table:. RMMM Table

Chapter 3

Software Requirements Specification

Introduction

This phase of the project describes the software used in the project and the utilities with which the team worked on the project.

Purpose

The proposed system include working on web designing as well as web development and data analysis for the better services for the user. We worked the application with help of software language like HTML/CSS, JS, PHP and database for the data storage.

Design and Implementation Constraints

Design For the development of proposed system following is the requirement:

1. HTML/CSS
2. Notepad++
3. PHP.
4. Xampp
5. Oracle MySql

System Features

1. Save Time.
2. Better connectivity
3. Easy change making.
4. Better Understanding

Hardware Interfaces

1. Computer- A electronic device dedicated to carry out sequence of Arithmetic and logical operations.
2. Processor Intel(R) Core(TM) i5-8250U
3. Speed - CPU @ 1.60GHz 1.80 GHz
4. RAM 4.00 GB.
5. Hard Disk – 1 TB.
6. Key Board - Standard Windows Keyboard.
7. Mouse - Two or Three Button Mouse.
8. Monitor LED.

Software Interfaces

1. Windows 10.
2. Notepad++.
3. Subline text.
4. Xampp.

Software Quality Requirements

Following table shows various quality attributes and its level in order to test quality of system,

Attribute	Performance
Availability	System is should be up at any time in day (24 x 7).
Maintainability	Easy to maintain.
Usability	Easy to use.

Table: Software Quality Attribute

Chapter 4

Modeling

Modeling :-

The purpose of this document is to provide practical and architectural design for online medical web application . In online medicals web application we are using iterative model

Iterative model :-

The iterative model is a particular implementation of a software development life cycle (SDLC) that focuses ses on an initial, Simplified implementation, which then progressively gains more complexity and a broader fearer Set until the the final system Complete.

Requirement gathering and planning

As with most any development step s project. The go through initial planning stag to map out the specification documents. All possible requirements of the System to be developed are captured in this phase and documented in a requirement Specification document we had done by Software specification language. This we had done by using HTML, CSS, JavaScript and Chrome is the main browser to even a website.

Firsts have to gather all the information about requirements is medical sector jobs like jobs according to qualifications. The uses people want standard website So the team leader have to make a meet meeting that's at least one with some doctors doctor and pharmacist so the requirement and planning can be clone effectively

System Design –

The requirement specifications from first phase are studied in this phase and the system design is prepared. This system design helps in specifying hardware and system requirements and helps in defining the overall system architecture. We estimate scheduling, tracking etc.

The requirement specifications from first phase are studied in this phase and the system design is prepared. Now it is specified that how many hardware and what kind of software that team will use for this product.

Chapter 5

Construction

Construction:

Construction is a process where a programmer and a designer have to work, They have to construct a product as per the requirement. In our project as per the Users need we Construct this things:

Login page/Sign up Page:

After login the website any user can use a website he/she can apply For A Job or Can hire people For any Job Related To Medical Field.They Can Choose a Job as Per Their Education Or Anyone Can Hire A Job For People According To Their Need because There Are To Options first is Post A Job And Second One Is Hiring for A Job so user just have to login into a website from Google account or email account and have to set a password into it.

Home page :

This is the page where the user will be navigated after a successful login. It will display all the Features Which Included For The The Medical field.

Category:

There are 5 Options

1) Hospital

2) Post A Job

3) Create Post

4) Pharmacist

5) Job opportunities

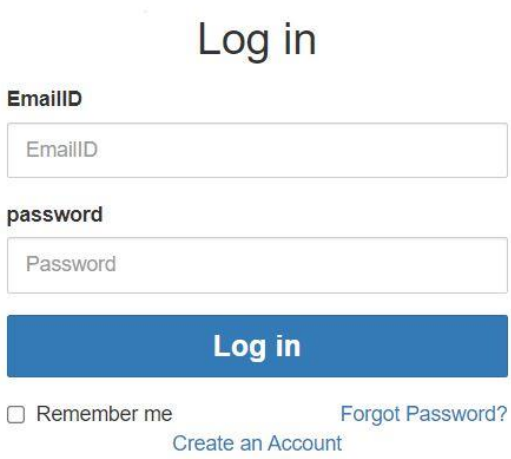

Fig. LogIn page for users

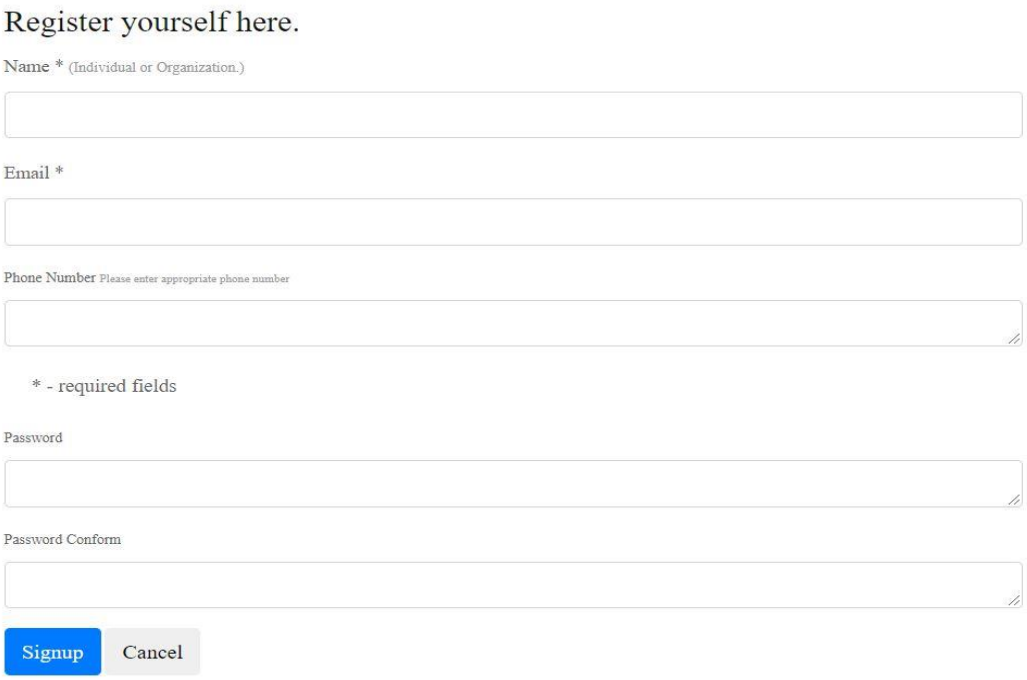

Fig. Signup Page for Users

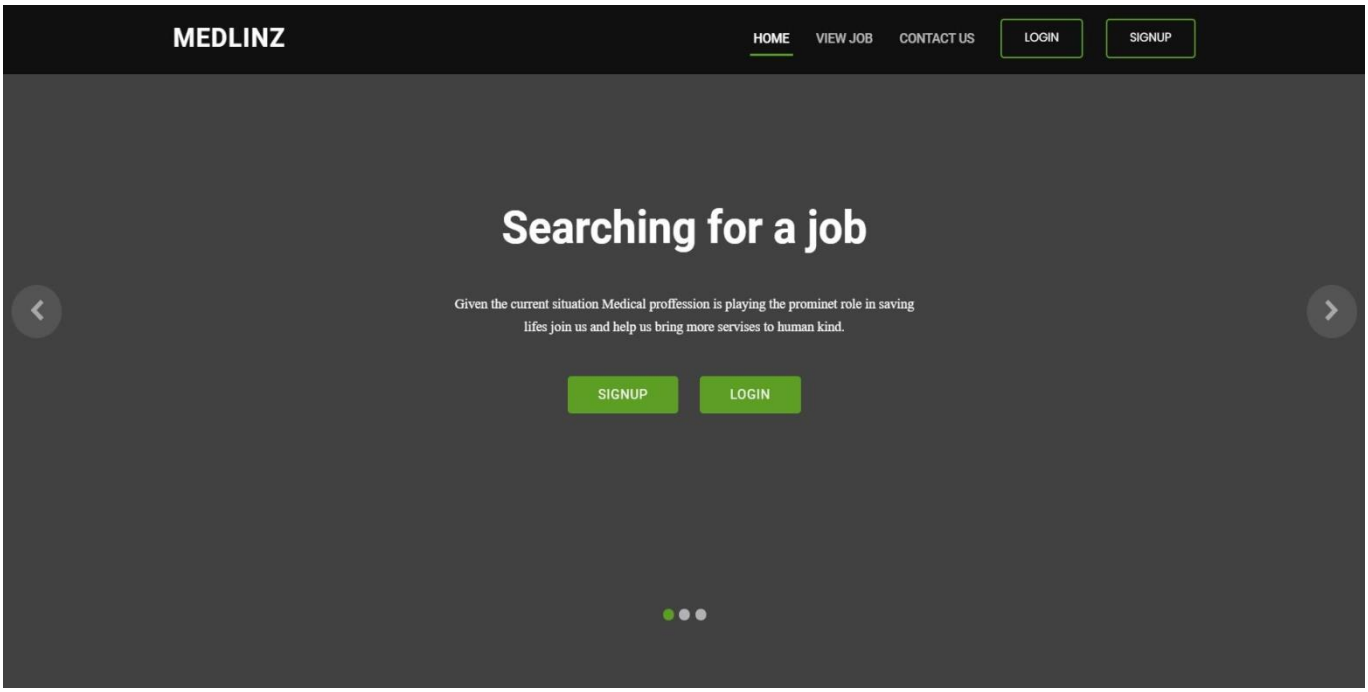

Fig. Homepage

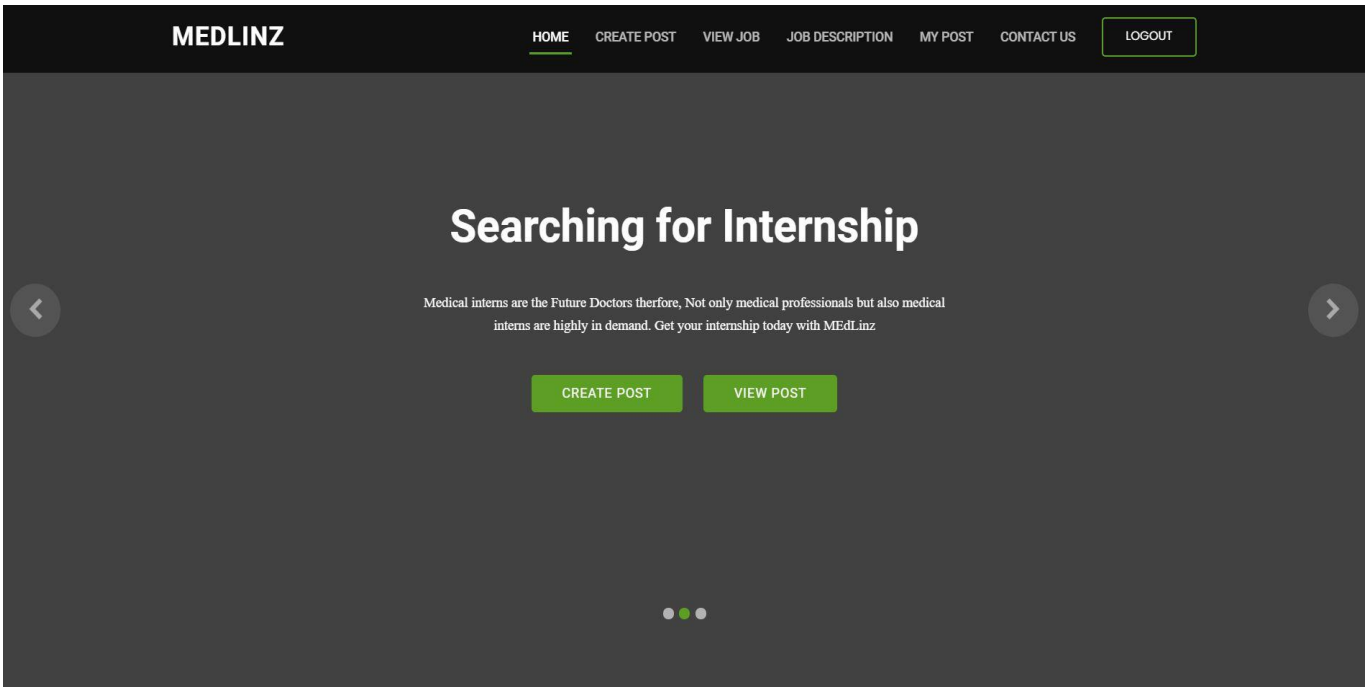

Fig. Dashboard for employer

Hospital :

In Order To control Employees access And To Identify The Medical Staff Hospital ID will be used...we can Say It's Totally Like A Hospital ID Cards.

Post A Job

In this section can Post A Job For Hiring, it Contains All The Information About the Job Position according To The Requirement Of Jobs..and the Requirement Of Education is Also Mentioned.

Create Post:

In this Create Post section you will be able to create post for the job seaker.

Pharmacist

In this Pharmacist section you will be able to check data related to pharmacy near or around you

Job opportunities

In this section you will be able to check different job option according to your field.

Chapter 6

Technical Specification

Windows 10

Windows 10 is a major release of the Windows NT operating system developed by Microsoft. It is the successor to Windows 8.1, released nearly two years earlier, and was released to manufacturing on July 15, 2015, and broadly released for the general public on July 29, 2015. Windows 10 was made available for download via MSDN and Technet, as a free upgrade for retail copies of Windows 8 and Windows 8.1 users via the Windows Store, and to Windows 7 users via Windows Update.

Windows 10 receives new builds on an ongoing basis, which are available at no additional cost to users, in addition to additional test builds of Windows 10, which are available to Windows Insiders. Devices in enterprise environments can receive these updates at a slower pace, or use long-term support milestones that only receive critical updates, such as security patches, over their ten-year lifespan of extended support.

Notepad++

Notepad++ is a text and source code editor for use with Microsoft Windows. It supports tabbed editing, which allows working with multiple open files in a single window. The project's name comes from the C increment operator.

Notepad++ is distributed as free software. At first the project was hosted on SourceForge.net, from where it has been downloaded over 28 million times, and twice won the SourceForge Community Choice Award for Best Developer Tool. The project was hosted on TuxFamily [fr] from 2010 to 2015; since 2015 Notepad++ has been hosted on GitHub. Notepad++ uses the Scintilla editor component.

Notepad++ was first released on SourceForge on 25 November 2003, as a Windows-only application. It is based on the Scintilla editor component, and is written in C++ with only Win32 API calls using only the STL to increase performance and reduce program size.

HTML/CSS/JS:

HTML:

Hyper Text Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets. Tags such as <img /> and <input /> directly introduce content into the page. Other tags such as <p> surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags, but use them to interpret the content of the page.

CSS:

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.[1] CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification of presentation characteristics, enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file which reduces complexity and repetition in the structural content as well as enabling the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

.

JS:

JavaScript (/ˈdʒɑːvəˌskrɪpt/), often abbreviated as JS, is a programming language that conforms to the ECMA Script specification. JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions.

Alongside HTML and CSS, JavaScript is one of the core technologies of the World Wide Web. Over 97% of websites use it client-side for web page behavior, often incorporating third-party libraries. All major web browsers have a dedicated JavaScript engine to execute the code on the user's device.

As a multi-paradigm language, JavaScript supports event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).

PHP:

PHP is a general-purpose scripting language especially suited to web development. It was originally created by Danish-Canadian programmer Rasmus Lerdorff in 1994. The PHP reference implementation is now produced by The PHP Group. PHP originally stood for Personal Home Page, but it now stands for the recursive initialize PHP: Hypertext Preprocessor.

The standard PHP interpreter, powered by the Zend Engine, is free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers on almost every operating system and platform, free of charge.

Xampp:

XAMPP (/ˈzæmp/ or /ˈɛks.æmp/)is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

XAMPP's ease of deployment means a WAMP or LAMP stack can be installed quickly and simply on an operating system by a developer, with the advantage that common add-in applications such as WordPress and Joomla! can also be installed with similar ease using Bitnami.

Chapter 7

Software testing

Software Testing is that method of execution of system with the decided of finding errors. Software testing is an investigation aimed at evaluating certain attribute and capability of a program or system and predicts that it meets its required specifications or not. Testing is to basically one of the means to detect software failures so that defects can be discovered and corrected as early as possible. Testing ensure that a all functions in software are properly working very well under all conditions and it establish that perform doesn't perform properly under specific conditions. Software system to wide it typically includes exhaustive checking of code along with execution of that code under various environments and conditions as well as examine the various aspects of code. In the todays culture of software development, a testing process is organized separately and parallel with the development process. Software testing affects quality of software package directly as a results of derived from software testing may be used to correct the process by which software is developed. Software testing is a trade-off between budget, time and quality. In simple software Testing is defined as questioning a certain product in order to evaluate it.

Definition

A test ease may be of conditions or variables under which a tester will determine whether a system under test satisfies requirements or works correctly.

Fields in a Test case

1. Test cast ID
2. Unit to Test:
3. What to be verified
4. Prerequisite
5. Test Data: Variables and their values
6. Test Procedure
7. Expected Result
8. Actual Results
9. Status
10. Remarks

Test Case ID		ID_01		Test Case Description		Login to MedLinz			
Created By		Akanksha Anand Padgilwar		Reviewed By		Akanksha Hend		Version	
QA Tester's Log									
Tester's Name		Akanksha Padgilwar		Date Tested		28-06-2021		Test Case (Pass/Fail/Not Ex	Pass
S #	Prerequisites:				S #	Test Data Requirement			
1	Access to Internet				1	username=8456987858			
2	Access to Chrome				2	password=asdfg#12			
3	Access to MedLinz								
Test Conditions		login to MedLinz							
Step #	Step Details			Expected Results		Actual Results		Pass / Fail / Not executed /	
1	Navigate to www.MedLinz.com			Site should open		Site opens		Pass	
2	Enter username&password			Data to be displayed in the s		data is visible		Pass	
3	login			login and show news feed		logs user in		Pass	

Fig. Test Case-1

Unit Testing

Testing is performed by the developers before the system set-up is Transfer to the testing team to execute the test cases by using stubs and driver's . Unit testing is done by the respective developers to whom a module is assigned. The developers use test data that is separate from the test data of the quality assurance team. The purpose of unit testing is to separate each part of the program and ensure that individual parts are working correctly in terms of requirements and functionality. Performing unit testing on double guard system following modules are tested individually

- Preprocessing.
- Clustering.
- Post Clustering.
- Labeling Cluster.

Test Case ID	ID_02	Test Case Description	Create account on MedLinz		
Created By	Akanksha Hend	Reviewed By	Akanksha Padgilwar	Version	

QA Tester's Log

Tester's Name	Akanksha hend	Date Tested	June 28, 2021	Test Case (Pass/Fail/Not E	Pass

S #	Prerequisites:
1	Access to Internet
2	Access to Chrome
3	Access to MedLinz
4	

S #	Test Data Requirement
1	Name:abx
2	E-mail or
3	Date of birth: 25-3-2002
4	Password:asdfg#12
5	Phone number : 8456987858

Test Conditions create account on MedLinz

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not execute
1	Navigate to www.MedLinz.com	Site should open	Site opens	Pass
2	Click on create new account	Create account page	Site opens	Pass
3	Enter the details	site accepts input	site accepts and display the input	Pass
4	Sign up	Account created	Account created	Pass
5				

Fig. Test Case-2

White Box Testing

In White box testing the detailed structure of internal logic , structure of the code is implement. White box testing is also called glass box testing or open box testing. White box testing is application the tester necessary to have good domain knowledge as well as tester should aware about the internal working of the code,loops.The tester necessary to have a see inside the source code and search out which unit of the code is behaving inappropriately.

Test Case ID	ID_03	Test Case Description	Logout from the facbook desktop version		
Created By	Akanksha Hend	Reviewed By	Akanksha Padgilwar	Version	

QA Tester's Log

Tester's Name	ASD	Date Tested	June 28, 2021	Test Case (Pass/Fail/Not E	Pass

S #	Prerequisites:
1	Access to Internet
2	Access to Chrome
3	Access to Facebook
4	

S #	Test Data Requirement
1	username=8456987858
2	password=asdfg#12
3	
4	

Test Conditions

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspende
1	Navigate to www.facebook.com	Site should open	Site opens	Pass
2	Enter username&password	Data to be displayed in the sections	data is visible	Pass
3	Click on the login button	login and show news feed	logs user in	Pass
4	Navigate to top navigation bar and click logout	Logs user out from the page	logs out	Pass

Fig. Test Case-3

Black Box Testing

Testing method while not having any data of internal working of the applying is Black Box testing. The tester is completely new one to the system architecture. Black box test a tester will interact with the systems user interface provides inputs and examining outputs while not knowing however and where the inputs are worked upon.

Chapter 8

Conclusion

We would like to conclude the report with the summary of the project. Our project "MedLinz" is basically for the front-line workers who are in the utmost need now especially the pandemic is not yet over. We are also listening to the news of the upcoming 3rd wave of Covid-19 delta+.

We mainly had our focus on how to get the doctors to connect to the hospitals that need their services due to the lack of staff and increase in number of patient day by day.

Our second focus was on the pharmacist as they are also the part of medical team as the provide us with required medicine. During the pandemic the cost of medicine was at its peak.

We would like to further make it more accessible to the interns, the lab assistant, the ward boys, nurses and other people required at hospitals, medicals and labs.

Chapter 9

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Chapter 10

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