INDUSTRIAL TRAINING

PROJECT REPORT

TOPIC: INTEGRATED COMMON MAN SERVICE

DONE BY:

- AISHWARYA BALAKRISHNAN MENON
- KRIPA M JOSEPH
- KRISHNA S P
- REBEKA JEETAN
- N NAMITHA

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ABSTRACT

Common people have often found it difficult to find the health service apps. There are not many web applications that provide them with the needed information at the time of needs. The people often find it difficult to find the hospitals the needed pharmacies around, the laboratory services and the kind of machines they would use, blood donations, emergency contacts like the ambulances etc. The goal behind our project is to provide the common man with all the requirements that one can get in the healthcare sector. The name of our application is 'ICMS'.

Different stacks are used to make the application. For to develop frontend, HTML CSS JS have been used and to develop backend PHP SQL have been used.

INTRODUCTION

"The ground work for all happiness is health". Said by not us, by Leigh Hunt. And it is true. It is important that people should realize this. In fact, many people had started to realize this. People have often started to take diets, do exercise and take care of their health. But there are lot of people out there in the world who still need to start on to love themselves.

This project is built with the utmost sincerity to help the common people to live a better healthy life, to help them to make better decisions about their health. It can be developed in the future to update to its full potential. The application's name is ICMS.

ICMS is a web application developed on the aim to provide better health care for the common man. The application offers features like giving the people needed information like data about the hospitals in his/her near locality, the doctors available, the departments available in the particular hospitals, the contact details etc…

The application also provides a feature for charity where people can donate money. In it, people get two options: donating money or finding help for financial assistance. If they choose to donate, they will be redirected to a page where their details will be collected and registered. If they decide for financial aid they will be redirected to a page where their details will be taken. This is then checked with the patient's details in the hospital record. For now, I have created a table in a database, more like dummy data, and will be checking through it. If it is found as a genuine case, they will be provided with the details of the donators.

In the future, we could check more details and maybe biometric checking, and doctor's prescription to increase security with the help of real data.

Another feature provided by the app is a way to contact the emergency services. A way to connect with the ambulance faster. This can avoid the time delay in giving proper medications to the injured person.

In the process of creating ease and efficiency when seeking a doctor from different hospitals, we proposed first an API for hospital ranking. Technical and integration limitations simply couldn't make it happen with the best thought and rigorous testing. We, however, remain committed to giving healthcare solutions in totality.

We have increased our services to blood bank and ambulance provision so that the user gets the best treatment. Additional features cater to critical needs, timely supports, and emergencies.

Through our blood bank service, the users get connected to various blood centers in and around their location. This ensures that blood is delivered to them in times of need in the quickest and least painful way. The 'Ambulance' option guarantees fast and reliable transport to hospitals during emergencies, getting patients to health centers in time.

Also, the application also provides a way to help the elder care people. These are people who needs regular checkups on a weekly or daily or monthly basis. So, this feature is developed with the goal to help these people to contact the necessary vehicles and people to care them. The development of an Elderly Home Health Care Service website focuses at providing users with the ability to book health services at home. It not only aims to provide care for elders but also service for everyone. These services focus within Trivandrum. The main services provided by the website includes:

- Hospital and Doctor Listings: Detailed information about nearby hospitals and doctors, including Hospital ratings and specialties providing user with at most information about the care they are selecting.
- Doctor Care: Users can book visits from specialists to their homes. It gives the user list of Hospitals and on selecting required department shows list of doctors and they can select respective doctor for particular timeslot and pay amount later after service.
- Nurse Visits: Home nursing care for post-surgery recovery, elderly care, or chronic illness management. It initially shows top rated nursing services on selecting we can select the required treatment.
- Physiotherapy: Access to physiotherapy for at-home treatment sessions. Mainly services are listed includes post-surgery services.
- Medical Equipment Renting: Renting essential medical equipment for home use, for new mothers, paralysed patients.
- Laboratory Works: Home collection of samples for laboratory tests. User can select the test they require from the given list.
- Emergency Services: Provides emergency ambulance services by giving quick contact information of agencies.
- Blood Bank: Gives information about the nearest blood bank centre and contact details.
- Contact Us: A form for user to reach out for any concerns regarding the services. Also, they can request any other care they require.

The website features a complete system for managing these services, consisting of:

- Address Form: A simple form for users to enter their address details to locate available services in Trivandrum area.
- Service Selection: A dropdown menu allowing users to select the required medical care they need.
- Appointment Booking: A for scheduling appointments, selecting dates and time slots, and receiving confirmation.

Our Goal was primarily to create a site in which the user can easily select treatment. Together, the features give consumers a simple and effective approach to obtain required health treatments from the comfort of their homes. The user experience is improved as users and abilities can locate the information and services they require. From elderly person to a Child one can easily access the website. Furthermore, everyone may see the website easily on any device. The website guarantees the safety and privacy of user data by including dependable and secure measure.

METHODOLGY USED

Different stacks used to develop this application are:

- HTML
- CSS
- JavaScript
- PHP
- MySQL

Generally, to develop front end: HTML CSS and JavaScript are used. To develop backend: PHP and MySQL are used.

HTML, CSS, JavaScript, PHP and MySQL are used to develop sign in, signup, forgot password, home page and donation page. It has been done using the VS code and Xampp. An extension named Live Server was also added in VS code.

To develop Hospital care and emergency services, HTML, CSS and JavaScript was used.

In the creation of Elderly Home care:

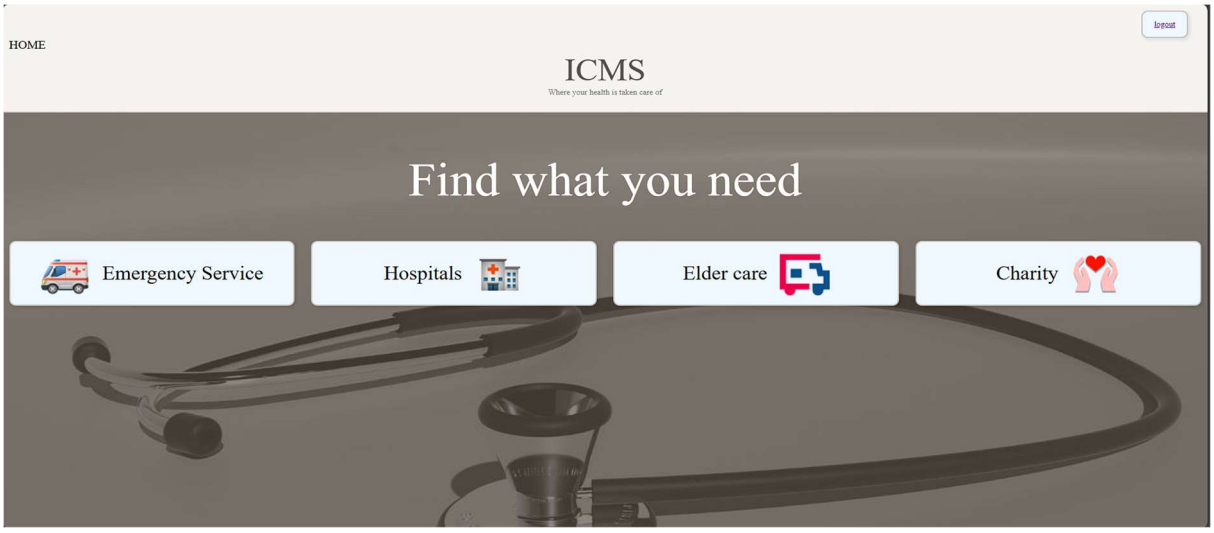
— The front end was developed using VS Code and online site known as Codverter.

CHALLENGES ENCOUNTERED

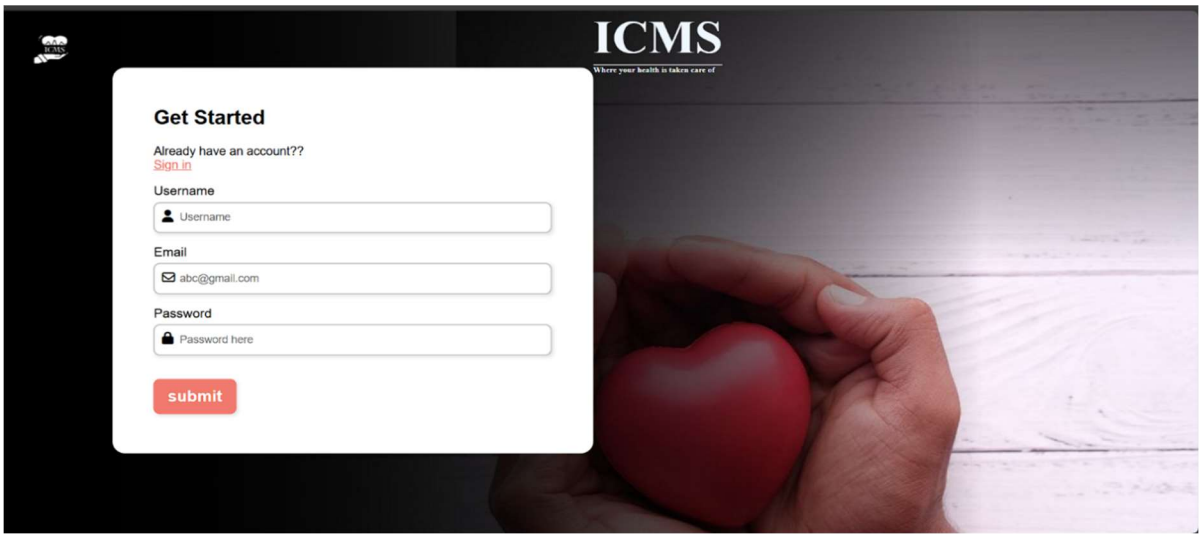
This project was developed by each one of us by rectifying a series of challenges. We have faced many challenges like:

- Incompatibility between different browser versions.
- Learning Curve:
  - Adapting to new technologies and frameworks.
    - HTML, CSS, JavaScript, PHP were entirely new and needed dedicated research to learn them.
  - Understanding API documentation and implementation.
- Balancing project tasks with tight deadlines.
- API Integration:
  - Understanding API limitations and constraints.
  - Handling errors and exceptions in API responses.
- Resource Constraints:
  - Limited access to necessary tools and software.
    - To access the API was the most challenging one and most of them were asking form credit card details and money.

    - Primary challenge was Using JavaScript to validate user inputs in real-time, providing immediate feedback for required fields and formatting errors.



HOME PAGE



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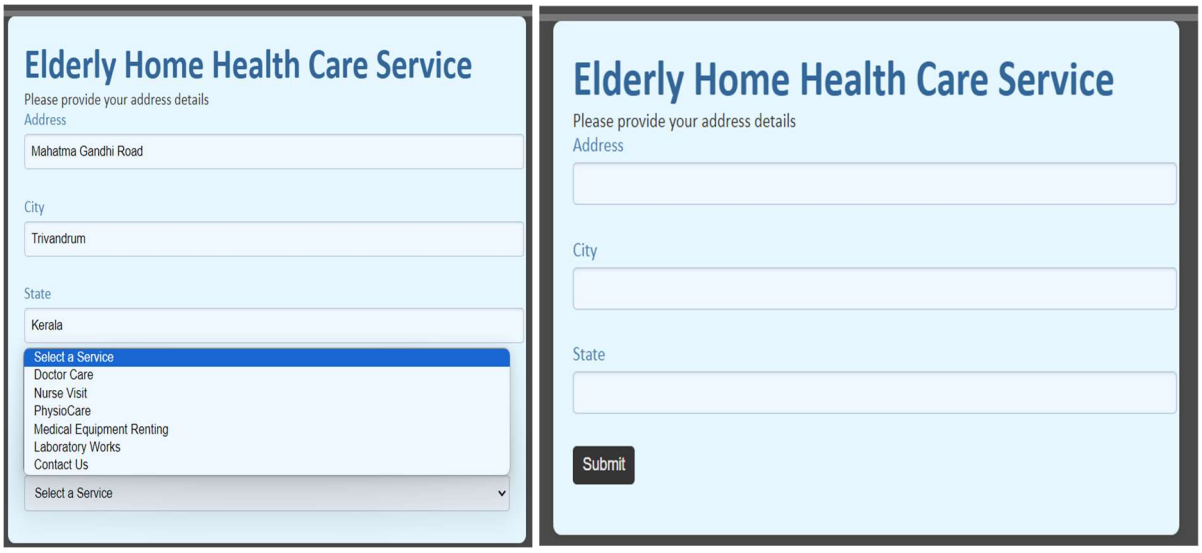

ELDERLY CARE

FUTURE SCOPE

The application can be developed in the future to be in its full potential. More features can be added like:

- Laboratory trackers:

  There are laboratories that uses different systems. Like for example to check pressure they use sphygmomanometer or blood pressure monitor. Also, there are other different equipment. There are also laboratories which will come to home and check. These details can be given to the common people through this application.

- Vaccination Trackers:

  A software application or system used to track and manage vaccination records, schedules, and reminders. Some features:

  1. Vaccination schedules: Tracking recommended vaccination schedules for individuals or groups.

  2. Vaccination history: Storing and managing vaccination records, including dates, types, and doses.

  3. Reminders and alerts: Sending reminders and alerts for upcoming vaccinations or overdue doses.

  4. Patient data management: Storing patient information, such as name, contact details, and medical history.

  5. Reporting and analytics: Generating reports and analytics on vaccination coverage, trends, and outcomes.

  6. Integration with healthcare systems: Integrating with electronic health records (EHRs), practice management systems, or health information exchanges.

- An alert system based on the new diseases, outspreads, its preventive measures and symptoms, medications available and history.

CONCLUSION

This is a project done on the industrial training program offered by Intel. The project is to integrate the common man services. We have integrated the health care services to help the common man. In conclusion, the healthcare service web application is a comprehensive platform that revolutionizes the way healthcare services are delivered and managed. By providing a user-friendly interface, robust features, and seamless integration with existing systems, this application:

- Enhances patient engagement and empowerment
- Streamlines healthcare services and communication
- Supports informed decision-making
- Fosters collaboration and care coordination
- Scalable and adaptable to evolving healthcare needs

This web application has the potential to transform the healthcare industry, making it more patient-centric, efficient, and effective. By leveraging technology and innovation, we can improve health outcomes, reduce costs, and enhance the overall quality of life.

RECOMMENDATIONS

- Use more secure security encryptions, and privacy methods.
- Continuously monitor and evaluate: Gather feedback, analyse performance metrics, and iterate to improve the application.
- Stay up-to-date with industry trends and regulations: Ensure the application remains compliant and innovative in the evolving healthcare landscape.
- Consider cloud deployment: Leverage cloud services like AWS, Google Cloud, or Microsoft Azure for scalability, reliability, and cost-effectiveness.

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