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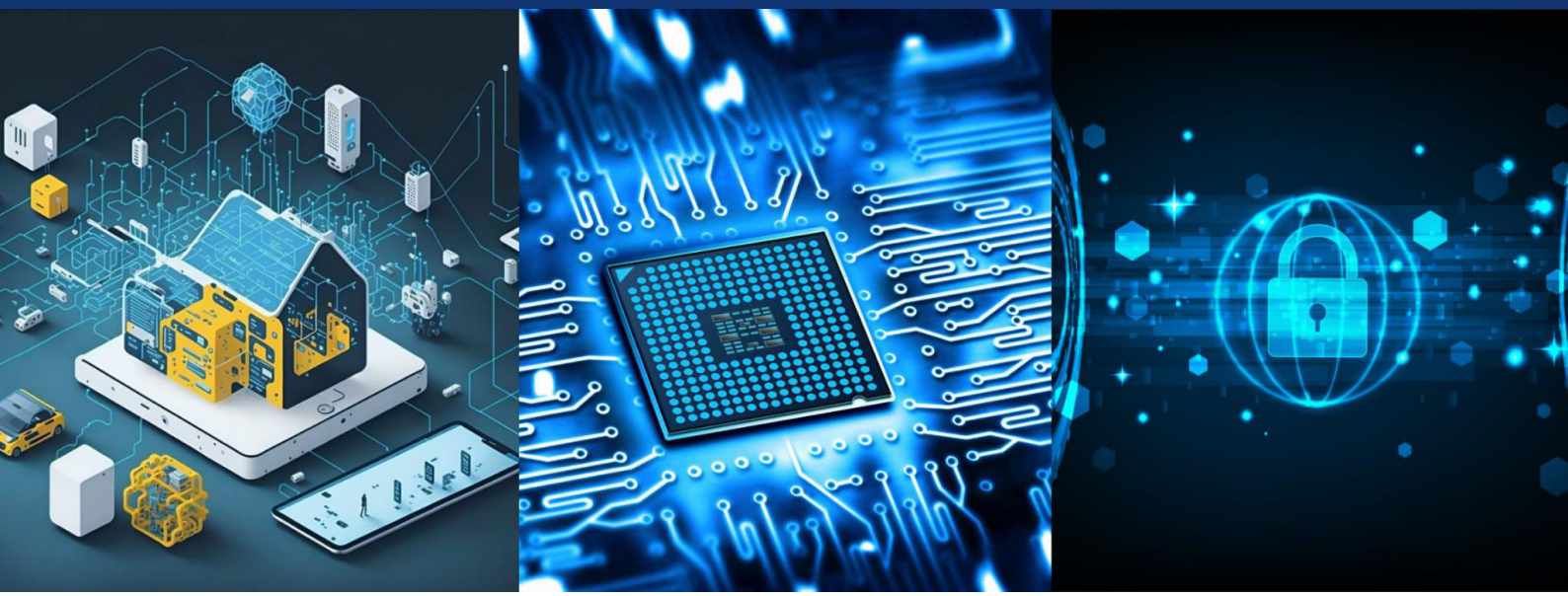

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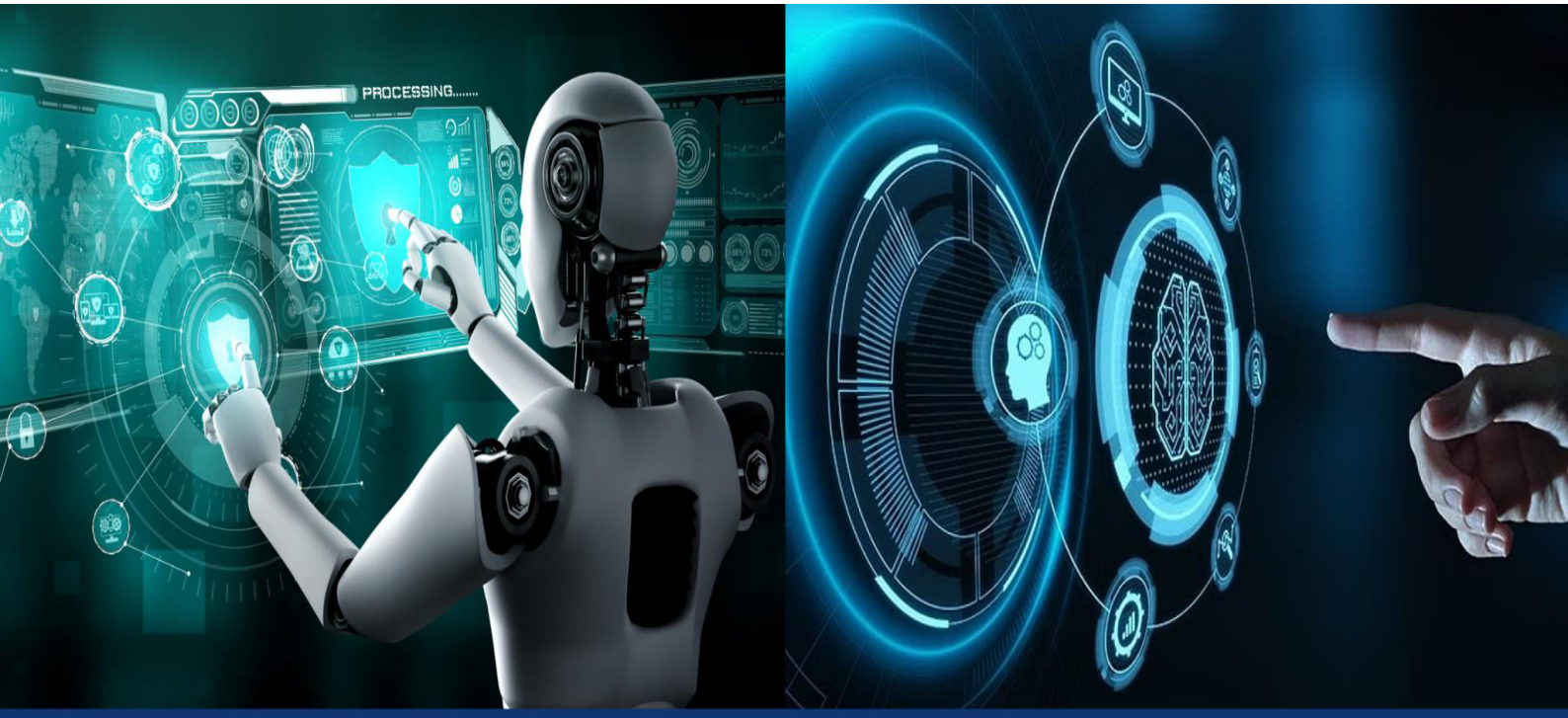

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Online Blood and Charity Donation Application

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ABSTRACT: Despite the immense technological advancement, blood bank systems are either manual or valuable data is easily retrievable. Consequently, one of the major issues in blood bank systems, as talked about in many research papers and articles, is the lack of data security. People always doubt whether their personal information and medical records are safely stored and secured. Therefore, our project aims to develop an online blood donation system applying the concepts of database security and encryption. The following is what our project aims to achieve: Any person who is willing to donate blood will have to register first, even if the user is a new donor, or the user can directly login if he/she has an account already. Whenever they want to donate blood, a form will have to be filled. In the user account, the user will be able to view all the details and records of all earlier donations as well as information about upcoming blood donation events. There will be a link provided to find blood donors in the region of the users' choice. All this is related to the blood bank system. Apart from this, we will be using concepts of database encryption to make sure that the users' information is kept secure and confidential. This will help us keep their donation records protected from any threats from individuals with potentially malicious intentions, or any unforeseen hazards to the security of the data.

I. INTRODUCTION

With blood being a universal requirement, it has become increasingly necessary for hospitals, clinics, and healthcare centers to have accessible measures aiding in the finding and acquiring of donors for recipients in urgent need of specific blood types. There is a lengthy process to accept blood from a potential donor and once the donor has been accepted, numerous personal details and information in regards to the donor are required. This information is generally stored in large databases that are often under-secured and easily hack-able, making it relatively simple to change, update, steal and misuse personal information of others. Moreover, in emergencies of blood requirements, the previous systems of accessing the database of donors is not efficient. Current manual mechanisms and vital sign documentations also have a number of inherent flaws, such as failure to document all appropriate observations, activities and inaccurate entry of data. It is timeconsuming and costly. Accordingly, it would be beneficial if there was an automated system and method to remove all these imperfections [16]. In the last 10 years, the number of voluntary donors has been increased compared to non-remunerated donors. Though, there is an increased voluntary blood donor, because of the lack of information relating to bold donation, many people become disentitle to donating blood [17]. To organize blood donation campaigns, organizers need to go to the nearest blood bank to inform and get the necessary requirements to organize blood donation campaigns. It is more time consuming and difficult. Emergency patients, who need blood immediately, request blood through advertising on televisions or social media [19]

II. LITERATURE SURVEY

P Priya, V Saranya, Shabana, Kavitha Subramani [1], has suggested an all-encompassing web android application to opportune & refresh the data with respect to all the contributors, the acceptor & the patients amongst which the manager gets the entire data about the red blood donation centre administration framework. Also, the proposed work has enough security, to ensure the contact as the subtle elements of the give away/donors for the web android application where it tends to be abused by the outsiders.

Tushar Pandit, Satish Niloor&A.S. Shinde, [2] has presented examination between the existing framework & the enhanced framework. The new thought can also enhance the current framework & can move from the ordinary work area framework to the portable framework. E-blood donation centres encorporate the blood donation centre computerization framework

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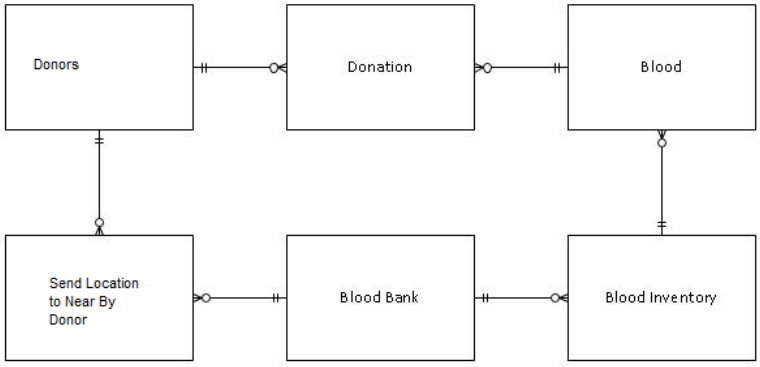
Vikas Kulshreshtha Research Scholar, Dr Sharad Maheshwari [3] has presented an audit of the primary highlights, the benefits & the negative marks given away by the current Web-Based information System for the blood Banks. The blood is all around perceived as one of the most valuable components which continues to life spares on endless lives over the world on an assortment of conditions.



III. PROBLEM DEFINITION

Despite the immense technological advancement, blood bank systems are either manual or valuable data is easily retrievable. Consequently, one of the major issues in blood bank systems, as talked about in many research papers and articles, is the lack of data security. People always doubt whether their personal information and medical records are safely stored and secured. Therefore, our project aims to develop an online blood donation system applying the concepts of database security and encryption.

IV. METHODOLOGY

P Priya, V Saranya, Shabana, Kavitha Subramani [1], has suggested an all-encompassing web android application to opportune & refresh the data with respect to all the contributors, the acceptor & the patients amongst which the manager gets the entire data about the red blood donation centre administration framework. Also, the proposed work has enough security, to ensure the contact as the subtle elements of the give away/donors for the web android application where it tends to be abused by the outsiders.

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V. MODULE DESCRIPTION

Step 1: Donor and Receiver or Guardian should Register
Step 2: Guardian will ask for blood donation
Step 3: Near By Donor will get notification and google map direction of near by Hospital
Step 4: Donor will donate blood in near by Hospital
Step 4: Guardian can check hospital if they have availability of blood through app
Step 5: Donor can mark it as willing to donate so that it can receive notification

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VI. CONCLUSION

We have proposed an efficient and reliable android blood bank application. The service provided by the proposed system is needed and valuable to health sector where a quality of blood is considered for the safety of the patient. The donor will get himself registered through these improved system. In case of emergency requirement the blood donor can place a request. The wireless internet technique enables the flow of data to work more rapidly and conveniently. The future work of the system is to develop this application in iOS platform

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