

TITLE: Health Care Application for Consultation.

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project link: https://github.com/shanureddy4/MEDAPP

ABSTRACT

These days most of the things are done through internet. Most organizations have online portals to communicate with customers. most of the medical apps like **DocsApp**, **1mg** are giving doctor consultation and medicines to door steps through their applications. These applications make life easier for users. These app give consultation fee with fancy prices and user can able to share everything easily through phones. Even though they maintain privacy still doctors able to view all details about the patient which some patients doesn't want to. As these are big organizations, there is a chance for information disclosure by their staff. A survey said that nearly 8% of patient gets leaked from hospitals. So considering these problems and pandemic situation we are trying to build an application that is able to encrypt the patient data as soon as possible patient enter details and providing most secure connection until it reaches to the corresponding doctor. **Introduction**

We can imagine that there are applications for every domine. We can see that there are numerous applications even to treated by the doctor. In this project we develop an application that will Encrypt patient details as soon as patient enters and gives only necessity details to the doctor. Consultant can even schedule the consultation timings and send to the patient. A notification will be send to the patient as soon as consultant accept the request. As details are secured patient has anonymity while consulting to the doctor and able to express all his sufferings without worrying. **Literature Survey**

Reference	Paper	Journal /	Proble	Algorit	Tools	Result	Drawb	Inferen
number	Title	Conference	m	hms	Used	S	ack In	ce
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	Techniq	MICRO	Techniq	Dyna	Cloud	These	None	These
	ues for	FOCUS/2011	ue to	mic	comput	are		article
1	prevent		prevent	secure	ing	just		shows
*	informa		informa	cloud		techni		that
	tion		tion	resour		ques		we can
	disclosu re		pass	ce		•		have
	via		from					various
	dynami		within					techniq
	c secure		the					ues to
	cloud		organiz					preven
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								disclos
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2	Smurfbased Distribu ted Denial of Service (DDoS) Attack Amplifi cation in Internet	IEEE/2007	Intrude r able to create denial of service in target device	Smufi ng techni que	Exploitt tools such as smtraffi c	Able to create servic e denial on host device	Target device do no work after this attack	These article show how to amplify the smurf attack
3	DDoS attack algorith m using ICMP flood	IEEE/2016	As this article says that we should re conside r the protoco Is like TCP and ICMP to prevent flood attack	a DDoS Attac k based algori thm on ICMP Flood ing techni que.	DDoS attack tools	Succe ssful ICMP flood attack	Protoc ols regard ing ICMP should recons ider	This research is aimed at giving readers a brief outline of DDoS Attacks and its constituents, primarily the ICMP Protocol.

4	Applicati on check DocsApp	DocsApp.in/ 2015	Patient have no online portal to contact with doctors	In this applic ation they used lot of algorit hms to provid e seem less servic e to users	App develo pment	Able to provid e docto rs to the patien ts remot ely	Patien ts data can be seen every doctor	These site have inform ation about the app called DocsAp p and how they used to provid e seem less service s to the users.
5.	Practica l quantu m digital signatur e with a gigahert z BB84 quantu m key distribu tion system	OSAPUBLISH ING/2019	Enhanc ement needed for traditio nal digital keys	Quant um key distrib ution syste m	Tools to generat e quantu m keys.	Able to establ ish secur e conne ction betwe en server and client	Need to under stand many things just to have digital signat ure	These article shows how to genera te digital signatu re with a gigaher z BB84 quantu m key.

Refer	Paper	Journal /	Proble	Algorit	Tools	Result	Drawbac	Infere
ence	Title	Conference Name	m	hms	Used	S	k In the	nce
num		& Year	Statem	Applie		attain	system	
ber			ent	d		ed		
6	Secure	scholarworks.bois	Tampe	Algorit	Not	Able to	May not	These
	Networ	estate.edu/2020	ring	hms	Mentio	secure	possible	paper
	<u>k-</u>		attacks	used to	ned	netwo	for	tells
	<u>onChip</u>		make	reduce		rk to	impleme	how
	<u>Against</u>		inform	backdo		maxim	ntation	tampe
	Black		ation					ring

	Hole and Tamper ing Attacks		change during transmi ssion	or attacks		um extent		occurs on trans missio n and how to preven t them.
7.	About 1 mg	1mg.com/aboutUs / 2015	Patient have no option to contact doctor when ever possibl e	Many algorit hms applie d to develo p this applica tion	App develo pment	Provid ed online consul tation with doctor s and deliver medici nes.	This also expose all patient details to the doctor.	This is a applic ation which let's users to consul t doctor s online.
8.	Three party secure data transmi ssion in IoT network s through design of a lightwei ght authenti cated key agreem ent scheme	Science direct /2019	Need to have enhanc ement in transmi ssion of data over a networ k	Three party secure data transm ission	Not mentio ned	Able to trans mit data secure ly	Needs to optimize d for app level transmis sion	These paper will sugges t to have three party secure data trans missio n in IOT netwo rking

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9.	Deve lopin g a secur ed imag e file mana geme nt syste m using modi fied AES	Journal.portalgaru da.org	As many of us know AES algorit hms it can be easy to unders tand our encrypt ion level. So we need to custom ize it	Modifi ed AES algorit hm	This can be develo ped in any of progra mming langua ge	Able to encryp t image succes sfully	This is easier than original AES algorith m	These paper sugges t that we need to custo mize every algorit hm accord ing to our use.
10.	Econ omic Succ ess of Physi cians in the Onlin e Cons ultati on Mark et: A Signa ling Theo ry Persp ectiv e	Tandfonline	Belief that online consult ation makes no profit	Econo mically writte n. No algorit hm involve d	None	Online consul tation will make much profit than usual	As article is theory perspect ive so impleme ntation could be difficult.	This paper says that we online consul tation will actuall y make profit for doctor s.

Problem Identified

Nearly 8 % of patient data is leaked from such applications. And patient gives fake identity while communicating with the doctor so it will difficult for an organization to identify him to send proper precautions and Patient want anonymity while contacting to the doctor.

Aim

We think that data is stolen directly from the database so we aim to develop an application that will encrypt the details as soon as patient enters and goes into database with encrypted and provide the patient details to the doctor as per patient needs.

Algorithm Used: Vigenere

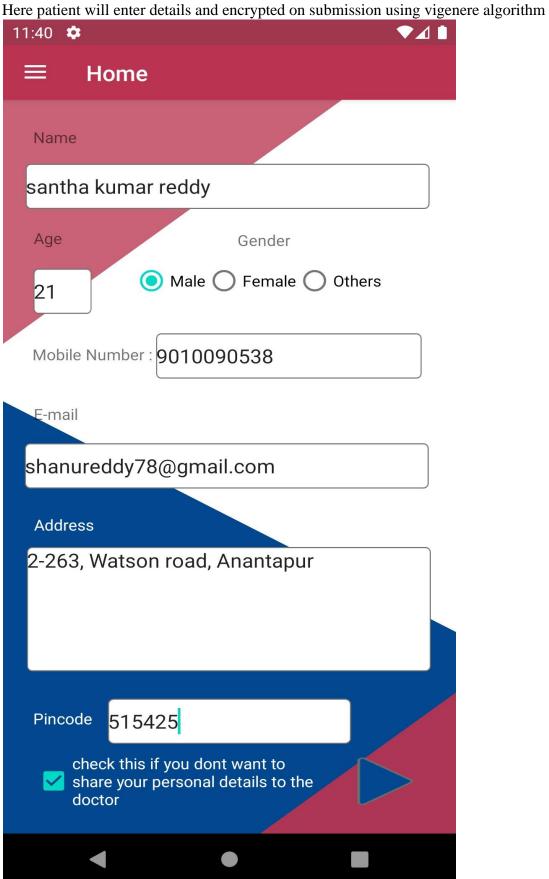
GUIDE

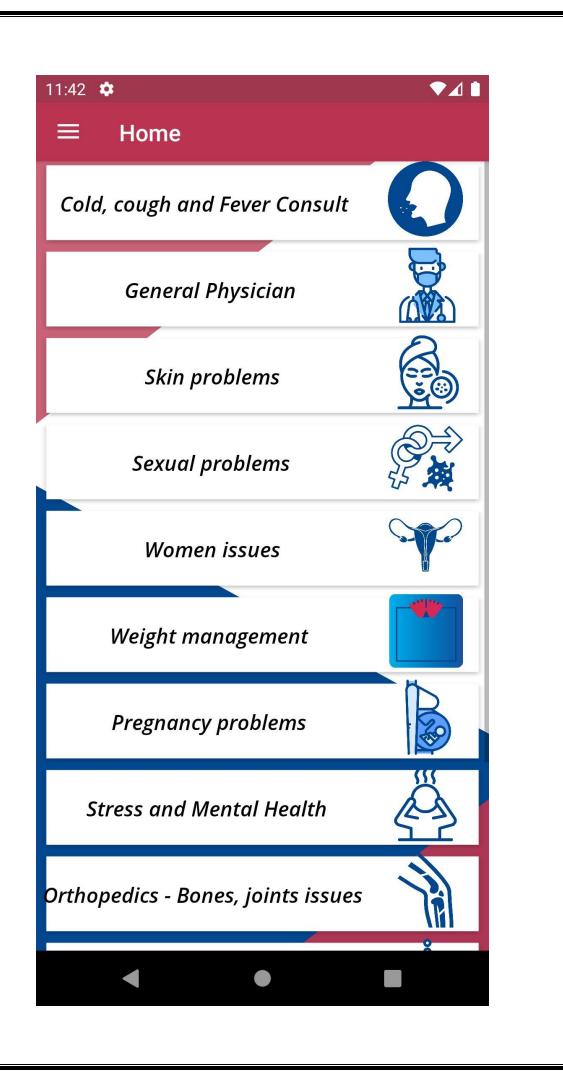
- 1) User need to enter personal details and his/her problem and choose the doctor. At last user need to describe problem in brief.
- 2) After entering details the details will be encrypted and stored in firebase database.
- 3) Here for every doctor a key and credentials will be given.
- 4) On patient selecting doctor the respective key will be sent to database.
- 5) Using that key when doctor login it will display no of patients with their ID
- 6) On doctor login it will give patient ID and decrypted KEY.
- 7) Doctor need to search patient using patient ID and need to decrypt using KEY.
- 8) On patient view page doctor will able to see the information only which patient will provided for viewing.
- 9) Google meet link will be generated and sent to doctor and patient with timings.

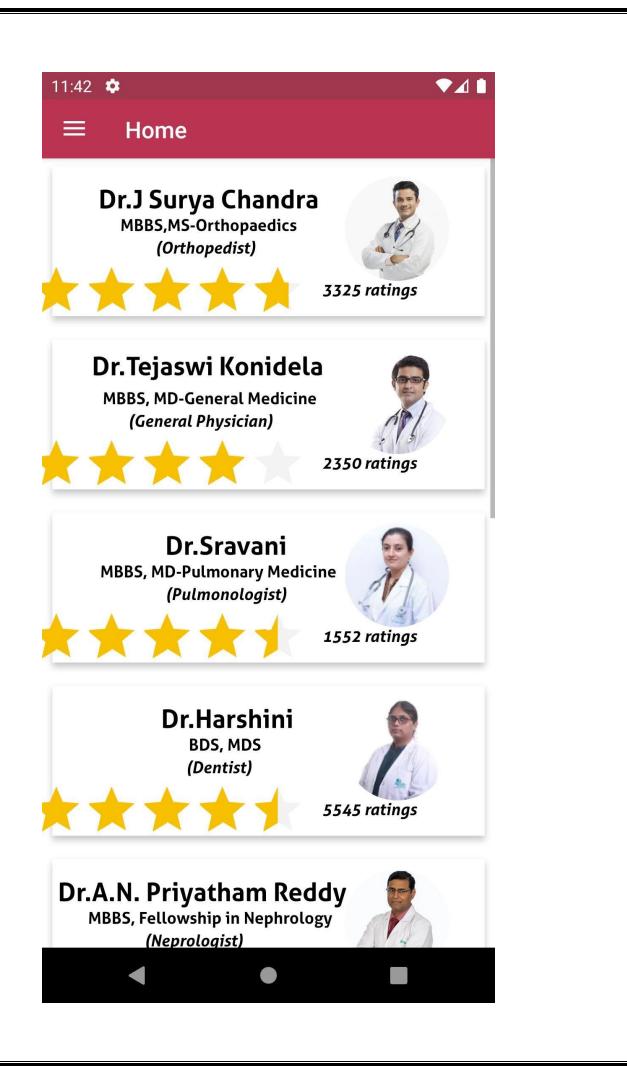
Results Home page

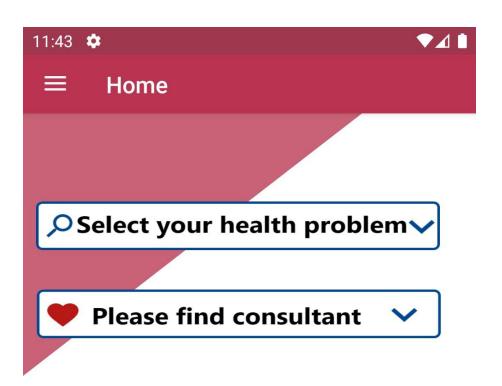


Patient details

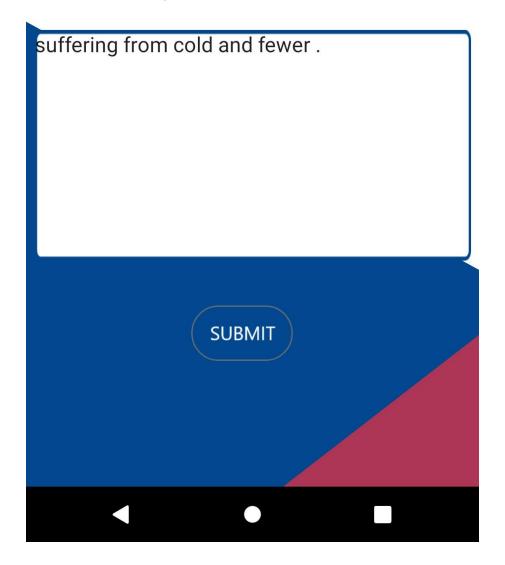




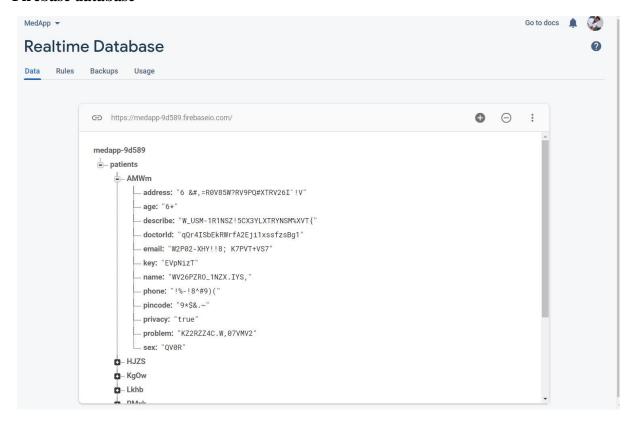




Please describe your health concern



Firebase database

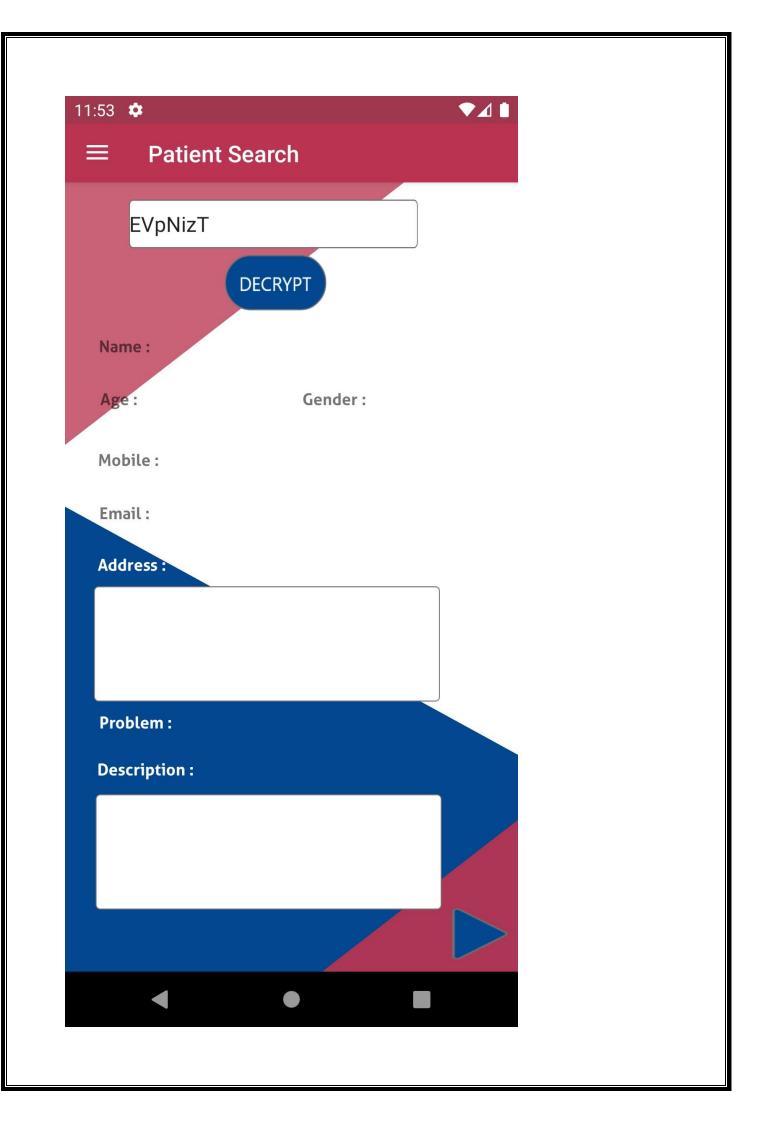


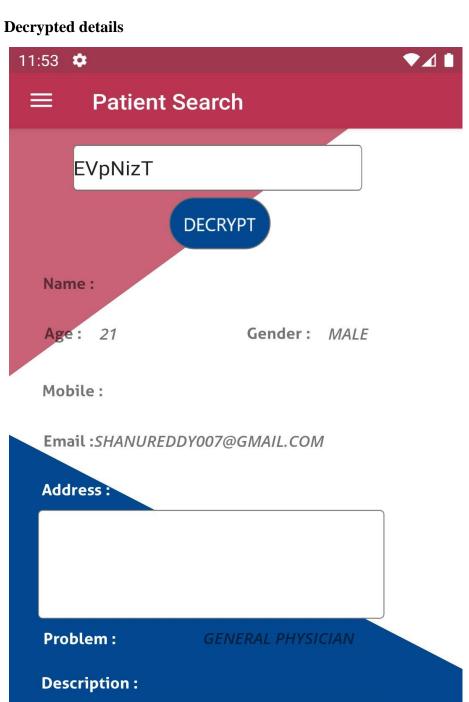
Doctor Login ▼⊿ 1 11:49 🌣 Login doc2@gmail.com **a** Log In

Patient view for doctors ▼⊿ **1** 11:50 🌣 Login AMWm RMxk Rcbv Sbdz lqkq znhi

Patient ID and KEY **▼**⊿ ■ 11:52 🌣 Login Patient ID AMWm Key EVpNizT

Patient Search ▼⊿ **1** 11:53 🌣 **Patient Search** AMWm SEARCH





SUFFERING FROM COLD AND

FEWER.

Data and time allocation for patient and sent to email 11:54 **Patient Search** Please choose date and time to call patient 2020/10/5 11:53 **SUBMIT** link to meet http://bit.ly/qQr4ISbEkRWrfA2E



10:26 (1 hour ago) 💠





Your consultation requrest has been accepted by the doctor. Please make your self available at 2020/10/5 Time :10:26 . Use the link http://bit.ly/ijt4ynpap4UuyFC6TY9PwAjpsng1 to contact the doctor

