

HEY THERE!!!

In today's world, **healthcare sectors** have one of the **top priorities** for all countries.

Hence **building and development of healthcare units** (hospitals, test centers, clinics) must be **faster and efficient** than the demands.

To achieve this , rapid retrieval of data is need of the hour .

Data is the essential entity to identify the real problem and helps us to **focus on the development** in the right area.

THERE YOU GO !!



BUT HERE'S THE CATCH...

WHAT IF THERE IS A WAY TO GATHER
THIS **DATA**?



WHAT IF THE RETRIEVED DATA IS
MADE **UNFORGEABLE** WITH A NEW
TECHNOLOGY STACK?

WHAT IF WE CAN USE THE MEDICAL DATA AND GET **DEEPER
INSIGHTS** OF THE HEALTH SECTOR OF OUR COUNTRY USING
MACHINE LEARNING ?

FOR THESE REASONS,
WE PRESENT TO YOU

...

THE ALL NEW

...

MEDICAL SUITCASE

HEALTHCARE SERVICE



TEAM JAY





ABOUT



- Medical Suitcase is a service platform where all the Medical Records of the citizens are stored in a secured environment.
- These medical records are made easily accessible at any time in pdf format (printable) for the user.
- The platform makes sure that only government certified doctors can prescribe medications to the patients.
- The platform also supports standard prescription template. It helps to maintain the uniformity of records throughout the country.



TOP FEATURES



DATA ANALYTICS

- Enhanced Data analytics to gain broader insights on a region's health index.
- Big organisations (Govt.) can gain useful info which helps them to plan for improvement.



KEYWORD EXTRACTION

- Keyword extraction using NLP in reports to enhance readability by summarization.
- The API helps in easier analyzing of records rather than reading the whole report.



DISEASE PROBABILITY PREDICTION

- Built-in Disease prediction system API using patient's reports.
- Helps doctor to prescribe drugs more accurately ensuring patient safety.



TOP FEATURES



OTP GENERATION

- Secure OTP system during appointments to verify patient's identity.
- Hence Malicious users can be blocked using this system, enhancing security.



CUSTOM SEARCH

- Google-cloud driven engine to extract info regarding online access of medicines.
- Users can get quick info on medicine's stock, it's side effects and so on.



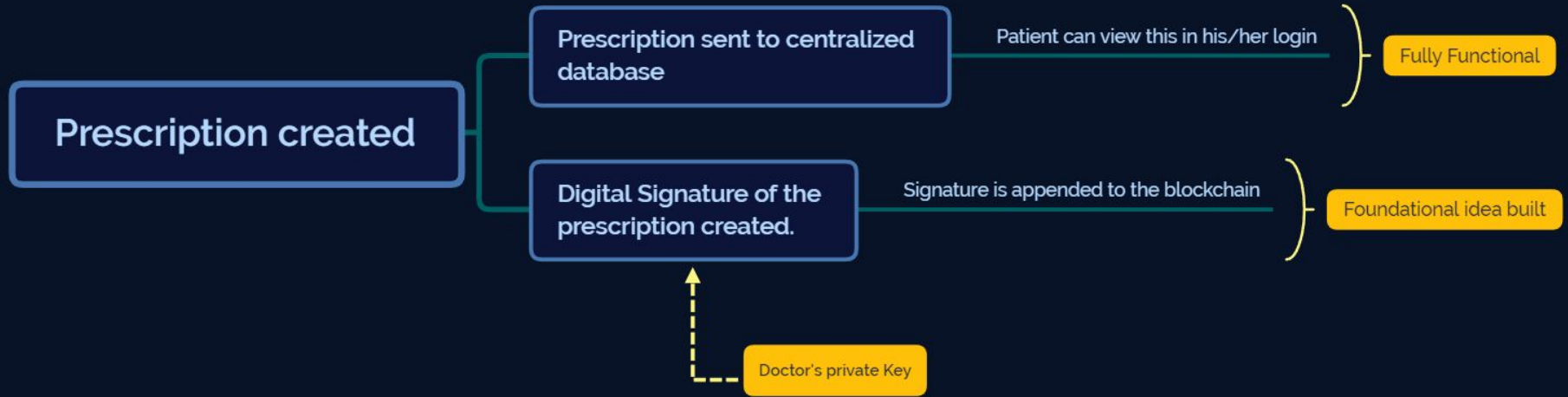
PRESCRIPTION UNFORGEABILITY

- Each prescription is hashed and digitally signed by the doctor.
- These prescriptions are then added to the blockchain making our project one of the first hybrid application.



IMPLEMENTATION

BLOCKCHAIN





FUNCTIONAL WEBSITE

X



My Info

Appointment History

Settings

Logout ↗

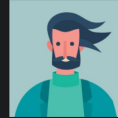
Good Evening

Dr. MAGNUS

ID | 23 |

New Prescription / Report

Create Prescription



Patient Name	LEVY ROSMAN	Patient ID	32
DOB	06/04/1996	Blood Group	B+ve
Gender	Male	Age	25

Medicine/Drug	Time	Before/After Meal	No of Days	
Crocin	• Morning	Before Food	5	

Reports

Report

Slight Fever, Tiredness

Submit

Medicines

Drug

Crocin

☒ Morning ☐ Afternoon ☐ Night

Time

Before Food

Days

5

Add



FUNCTIONAL WEBSITE

Messages

VoLTE 4G LTE 38%



5676734

Greetings from Medical Suitcase,
Your One Time Password (OTP) is 31234

Call

Mark as read

Reply

Prescription

Print this out!

Details

Doctor ID	23	Doctor Name	Magnus	Hospital ID	Apollo	Date	1617901967593		
Patient ID	32	Patient Name	Levy Rosman	DOB	06/04/1996	Gender	Male	Age	21

Medicines

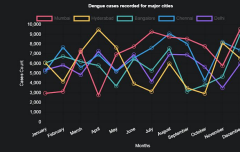
Name	Time	Before/After Meal	No of days
Crocin	• Morning	Before Food	5

Report

Slight Fever, Tiredness

ANALYTICS

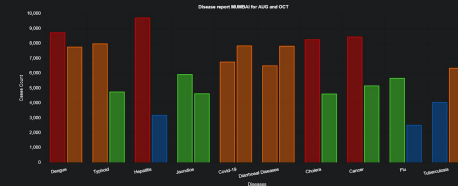
Line Chart



Radar Chart



Bar Chart



Doughnut



Pie Chart





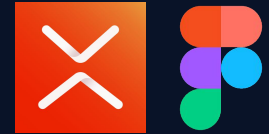
TECH-STACK USED



express



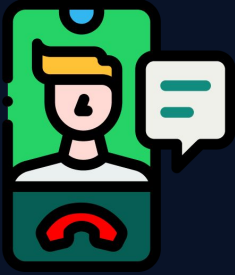
spaCy





FUTURE PLANS OF THE PROJECT

VIDEO CALLS SYSTEM



- Patients can have a video call with Doctors and get diagnosed.
- Doctors can meet up with during intense and complicated surgeries.

AUTOMATED HEALTH CERTIFICATE GENERATION



- The platform can be used as a “E-MEDICAL PASSPORT” for all the citizens.
- It keeps hold of all the primary medical details. In case of emergencies, the patient’s medical record can be referred to give the appropriate medication.



FUTURE PLANS OF THE PROJECT

MEDICINE IMPORT AND EXPORT MANAGEMENT



- Balancing the demand-supply chain of vaccines and other medicines.
- Information regarding the usage of particular medicines and vaccines over a period of time can be analysed and the same can be shared to other health sectors in various regions.

ADVANCED MEDICAL DATA ANALYSIS ON SPECIFIC LOCATIONS



- With the location and the medical reports, the surge and ebb of diseases in a particular location can be recorded.
- This would assist in finding the reason of the outbreak and take precautionary measures in advance, using Deep Learning.

MADE BY



JOFIN F ARCHBALD

ANEEESH SARJIT M S

YUTHIRSHITA PRASAD T