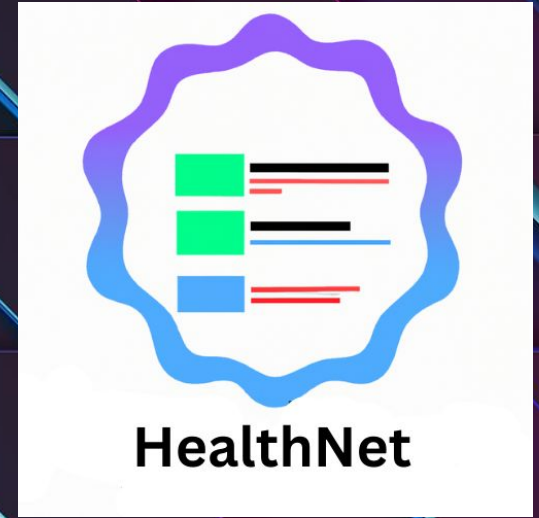# HealthNet

Team Name: FalconSpeeds
Members : Ujjawal Saini, Priyadarshi Anand, Tushar Jindal, Aakansh Kasana
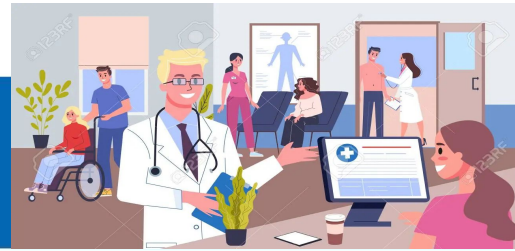
Problem Statement

- A lot of time is wasted in maintaining physical copies of medical records.

- According to Institute of Medicine (IoM): Medical errors – an estimated **44,000 preventable deaths** annually in the USA alone – of which **7,000 deaths** are due to **sloppy** handwriting. Anecdotal evidence and personal experience lead me to believe that the situation in India is far worse. [Source: Economic Times]

- In current times, most of our medical records are **not very well-structured,** therefore it is not easy to derive meaningful and scientific insights from it.

Source:
https://health.economictimes.indiatimes.com/health-files/doctor-s-illegible-handwriting-creating-confusion-causing-death/591

Solutions

Our project aims to:

- Make it easy for doctors to access past records and maintain medical records of their patients
- Make research easy.
- Easy adoption of new National health care programs
- Easy for users to download and access their prescription from their mobile phones or computers, which will further promote digitalization and can save tons of paper, leading to better environment.
- All medical prescriptions, lab reports can be accessed from the website or in future we can easily link it with DigiLocker using API.
- Later, we can also propose to integrate all family members which leads to better understanding of disease, and it's prevention.

Prototype

- Hospital and clinics would be giving fee for accessing the API

Advantages

- Doctors can sign the prescription digitally, so the patient can easily verify the doctor.
- Permanent record for lifetime will be maintained to make diagnosis better and error free
- User will be able to login only using their Aadhar card. No other IDs are required.
- It will make it easier to opt into various National Health programs and help the government to easily push and implement new healthcare facilities.
- Will make medical experience more flawless, efficient & accurate data since records are digitally scored and there will be no handwriting issues.
- Easy access to medical records.
- Aggregation of data for training machine learning models, deriving insights about diseases and scientific research.

Potential and features

Unlocking the Potential of Centralized Record-Keeping

Features to Enhance User Experience and Research Capabilities

- Potential of centralized record-keeping for healthcare providers, patients, and researchers.

- Key features of the platform: Secure storage, User-friendly interface, and Data analysis tools.

Research

This platform will provide researchers with access to a comprehensive national health record register, which will facilitate research on a variety of topics related to public health and medical science.

Researchers will be able to access patient data in a secure and standardized format, allowing them to conduct studies that can lead to breakthroughs in disease prevention, diagnosis, and treatment.

The platform can also assist in the identification of trends and patterns in patient health records, which can help researchers identify risk factors for various diseases and develop more effective treatment options.

Moreover, the platform can streamline the process of data collection and analysis, allowing researchers to save time and resources while conducting research. This can lead to faster development of medical innovations and more timely responses to public health challenges.