



MEDILINK

The Next Generation of Healthcare

Rachit Jaiswal, Ethan Tran, Shuban Pal, Luna Iwazaki





Universal Healthcare?

Why is it important?

- Equity in access
- Preventive care
- Cost Efficiency
- Healthier populations



Universal EMR Card



Patient Name

Search

Prescriptions

Prescription 1

Prescription 2

Prescription 3

Special Conditions

Condition 1

Condition 2

Condition 3

Visit Logs

Visit 4

Visit 3

Visit 2

Gender: ____

Sex: ____

Age: ____

Height: ____

Weight: ____

Blood Type: ____

Additional Information >

Survey Website Application

Doc Notes Insurance Edit

- Patient information, prescriptions, and medical history
 - Self-reported data is flagged pending verification via healthcare provider

Search for patient info...

Weight (lbs)

180 lbs

Blood Type

O+

BMI

22.5

Prescriptions +

Prescription 1 -

Prescription 2 -

Special Conditions +

Condition 1 -

Condition 2 -

Visit Logs +

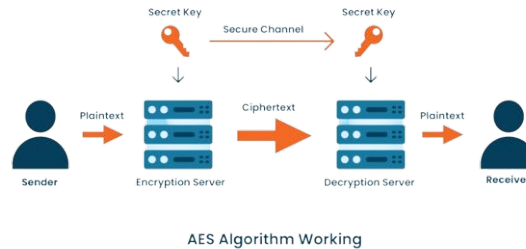
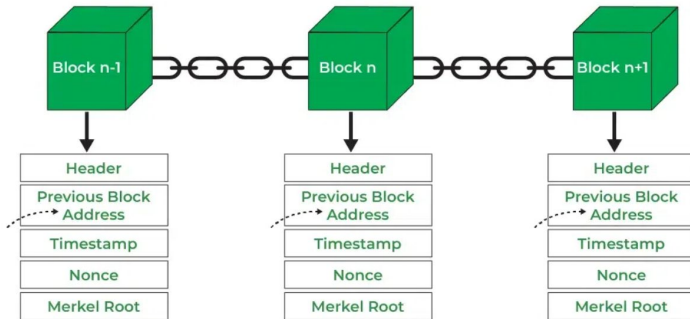
Edit

- Dual-portal interface
- Patient information is secure, immutable, and transparent

Blockchain



- Why blockchain? **Blockchain can be used as a standardized secure list or "chain" of visits which can be used to verify information**
- With LinkID, each visit information would be stored in a "block" and a chain of these blocks (a blockchain) would be made for each user
- The LinkID blockchain system secures each patient's records using AES (Advanced Encryption Standard) encryption
- Private keys and unique IDs are generated for each chain to ensure that only medical professionals and patients can access the data.



The LinkID Blockchain System (AES Breakdown)

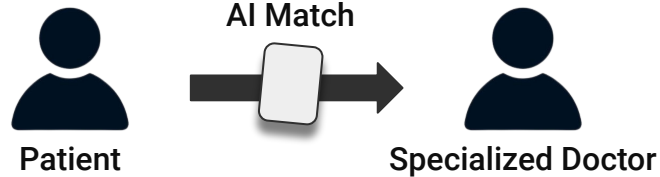


1. The LinkID system uses the AES algorithm to generate private keys
2. The system encrypts the medical information obtained from the JSON using a corresponding private key pair
3. The private key and a generated ID is given to the healthcare provider and the patient
4. The system will only be able to unlock the encrypted JSON records if the private key entered for a record is correct

Why MediLink



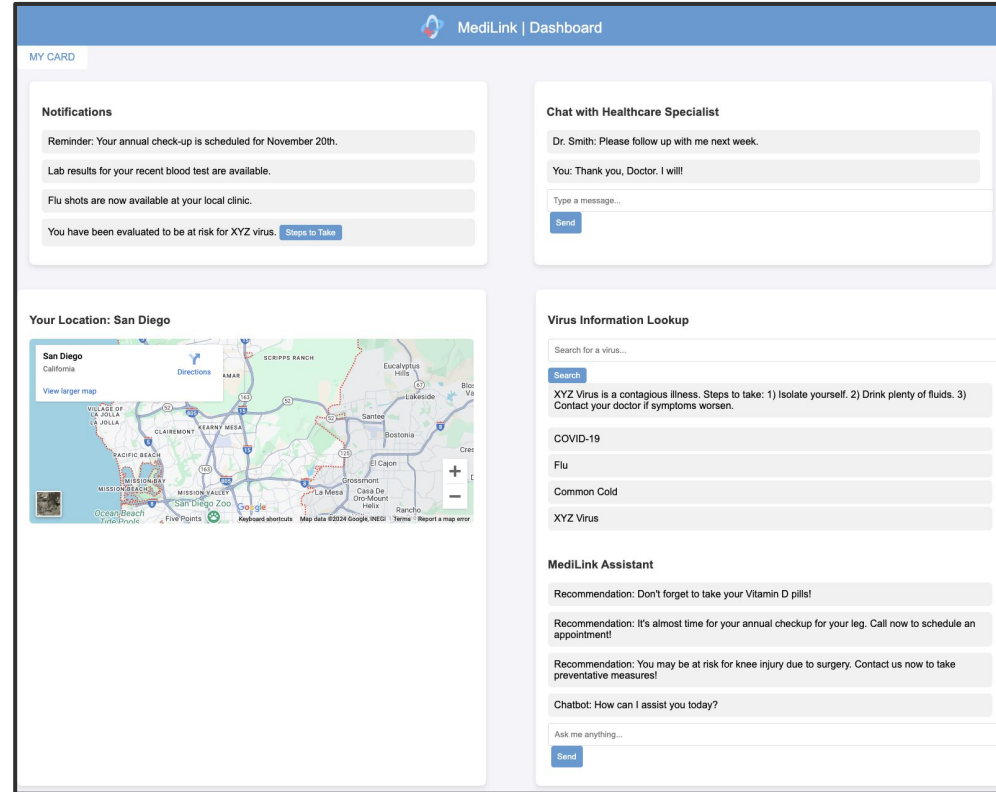
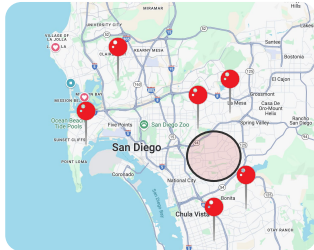
Access to care



New and Enhanced experience



Geospatial Data on Diseases



Smart | Secure | Connected



MEDILINK

The Next Generation of Healthcare

