

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY ALLAHABAD

TOPIC :

Medic



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Overview

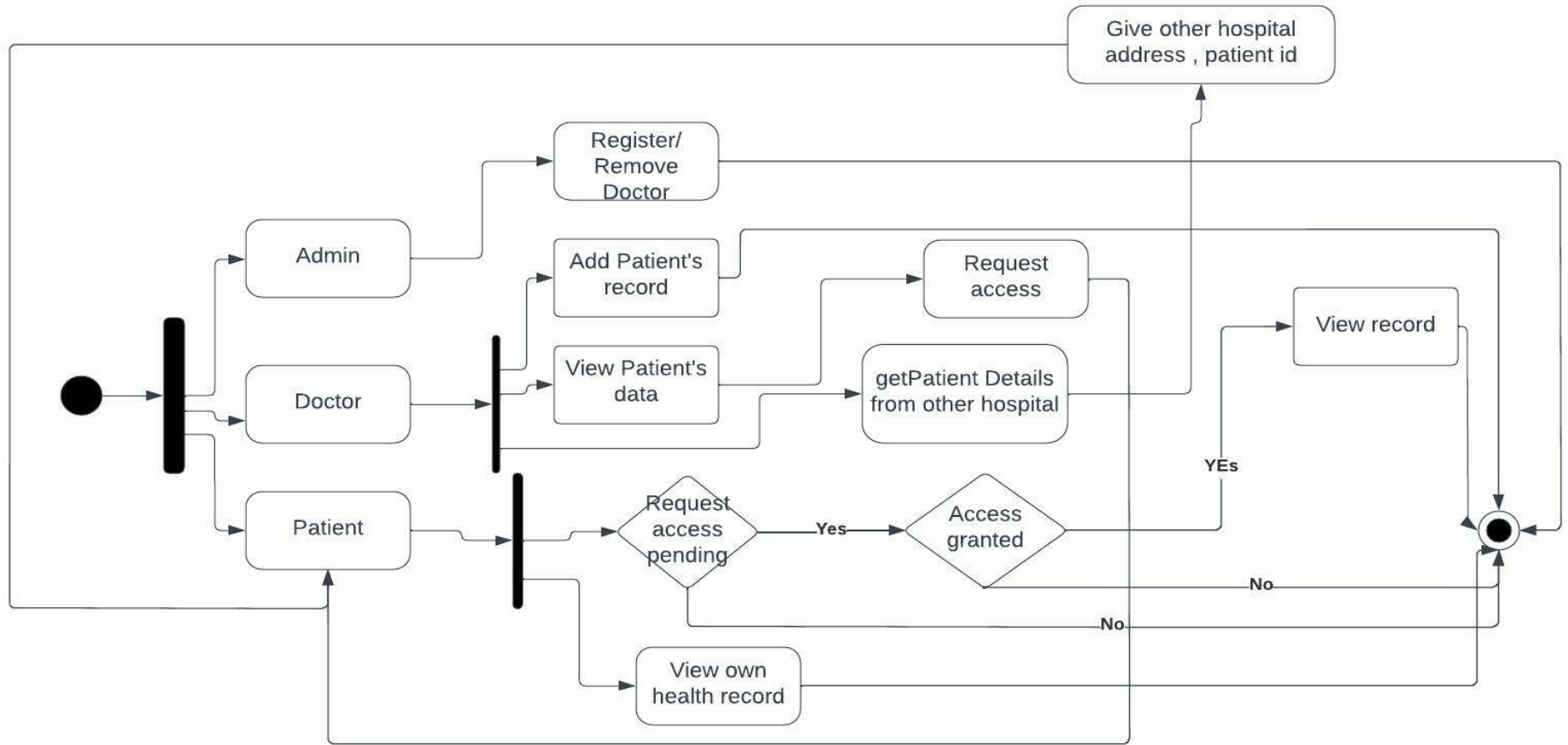
- A medical data management following some of the functionalities of HIPPA Act.
- This follows functionalities like :
 - Patient has the right to allow access/ revoke access to the doctor.
 - Data is shared between hospitals.
 - For e.g A patient registered in hospital “A”, when he also gets registered in hospital B , then doctor from hospital B can access his patient details from hospital A.

Project Functionality

This project manages the health records securely based on blockchain using Ethereum platform. Following are the main functionalities of this project :

- Doctor's detail is updated/Registered by owner.Admin has the ability to add or remove doctors from the list.
- Admin will deploy smart contracts
- Patient's health records can only be added by registered doctors.
- Only Authorized doctors can view the patients records.
- Patients can see their prescription history in relation to the doctor.

Activity Diagram



Entities

- Doctor
- Patient
- Health record
- Smart contract
- Hospital

Need of blockchain in Medical Data Management

- Enables decentralized management
- Facilitates immutability of data
- Facilitates Ownership of data
- Ensure availability of data
- Increases security and privacy of data

Conclusion

- Today, doctors are limited in the level of care they can provide because due to inability to view your complete, accurate health records. The proposed solution is a blockchain network deployed by each hospital which registers the doctors in this network. The doctors can publish patients medical records safely on blockchain network.
- Limitation of data sharing between hospitals is a big barrier for efficient and early diagnostics of patients. It is solved by data sharing between hospitals.



Thank You !!!