

# Patient Data Management Using Hyperledger Fabric

By

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# Problem Statement

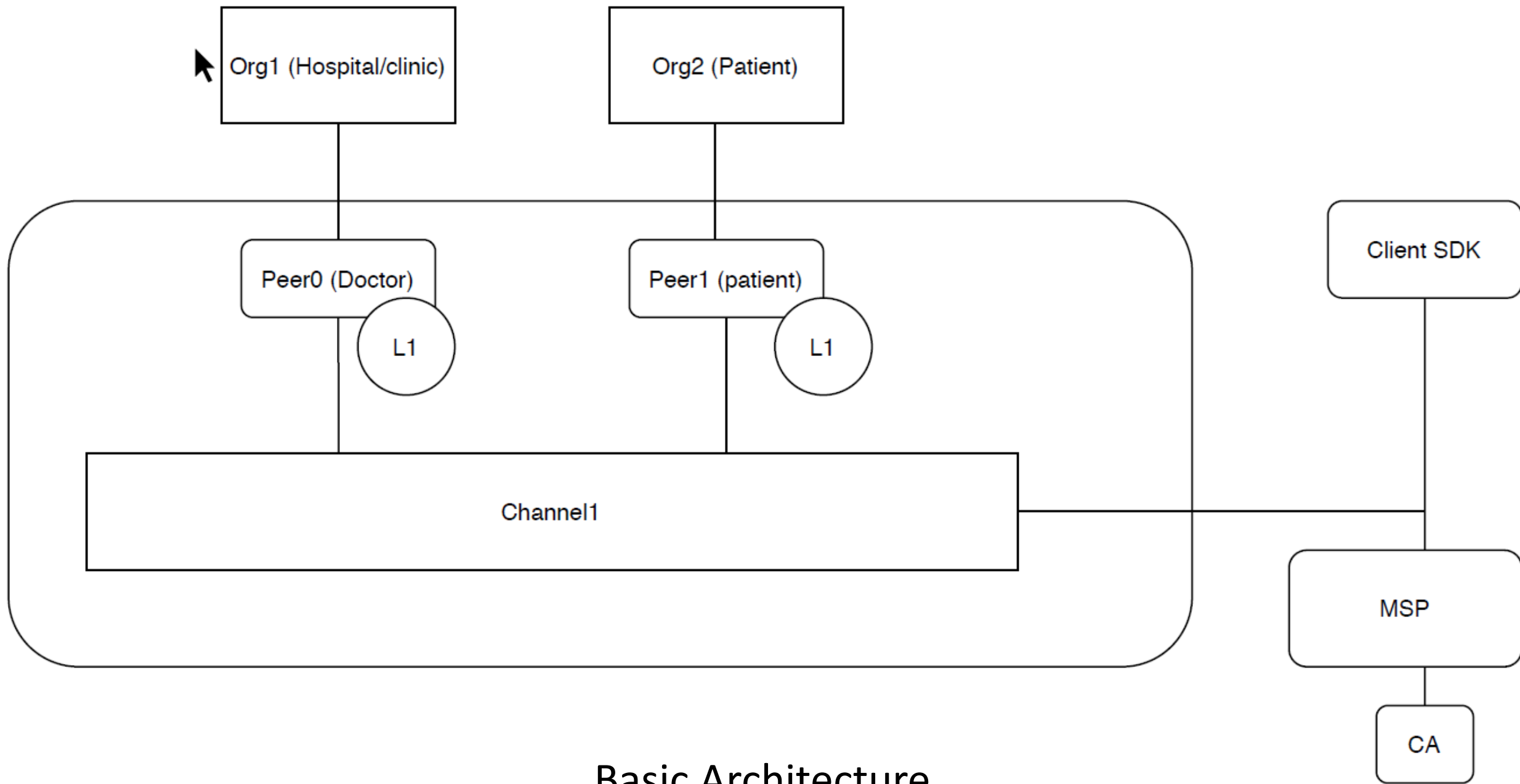
- Healthcare systems are complex and the records maintained by the healthcare organizations are usually centralized and the patients have less control over their data. This creates several problems such as
  - transfer of records,
  - reliable medical history,
  - easy access to data,
  - security
  - and many more.

# Solution

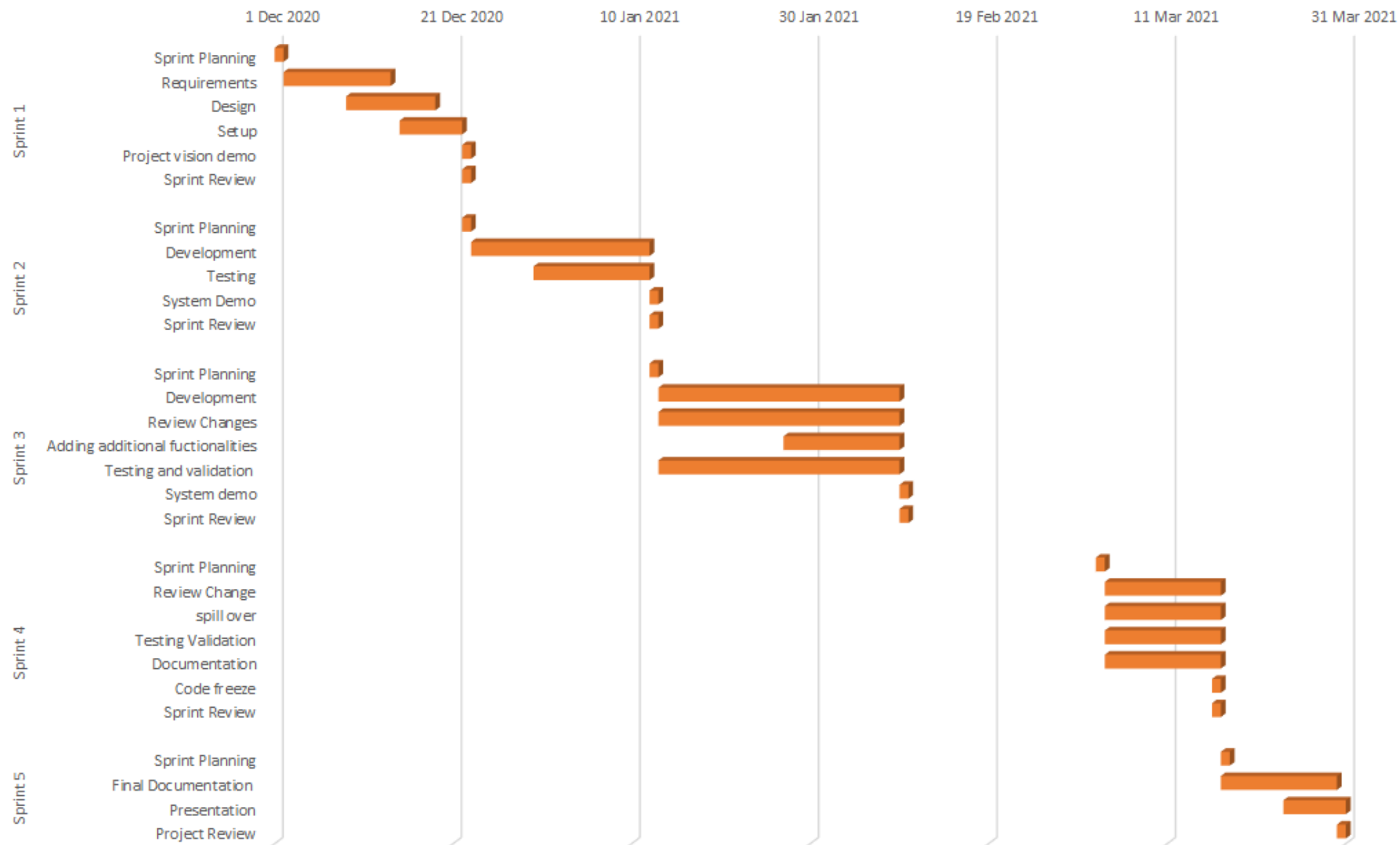
- To overcome this problem we are adapting permissioned blockchain technology using Hyperledger Fabric.
- Distributed health ledgers will
  - enable smooth transfer of medical data.
  - providing reliable medical history on patient.
  - ...

# Requirements

- Organizations:
  - Patients
  - Hospitals/clinic
- Peers:
  - Patients -> patient, emergency contact
  - Hospitals/clinic -> doctor, laboratory
- Smart Contracts: `allowAccess()` etc.
- Confidential Communication: Different channels
- Web Interface: Interface for users



# Project Plan



# Technology Stack

- Smart Contracts: Node.js
- Database: Level DB/CouchDB
- Frontend: Angular