

Patient Data Management Using Hyperledger Fabric

Team Titanium - Sprint 1 Review
Frankfurt University of Applied Sciences

Agenda

Patient Data Management Using Hyperledger Fabric

- Requirements
- Architecture
- Scenario

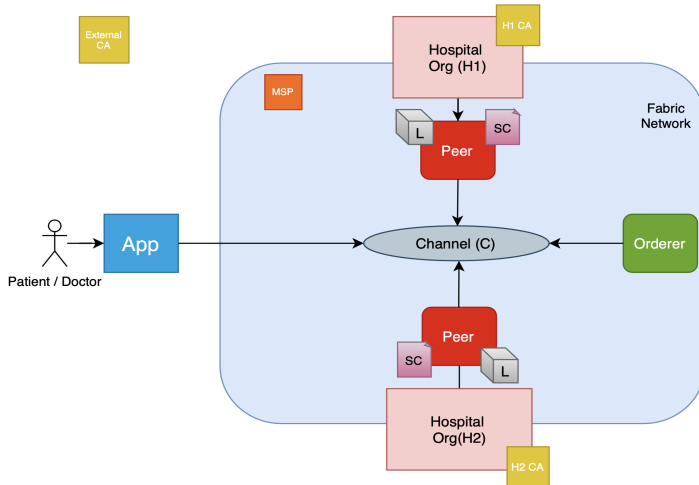
Project Plan

- Sprint 1
- Sprint 2

Requirements

- A hospital will be an organisation with certain peers each performing specific tasks.
- Multiple hospitals connect to the network using a single channel with their own peers and a common ledger.
- Data encryption should be handled to avoid unnecessary access to other's data.
- Authentication to access/modify the patients' data must be provided.
 1. Doctor will be able to see the data if the patient has granted the access.
- System admin will monitor the network and have the rights to grant access to new hospitals that joins the network.

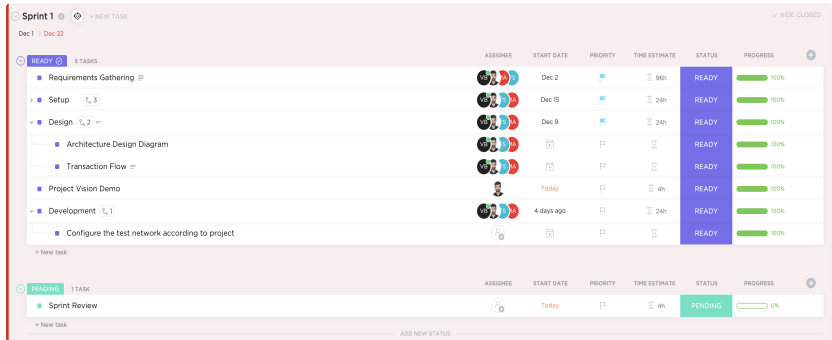
Architecture



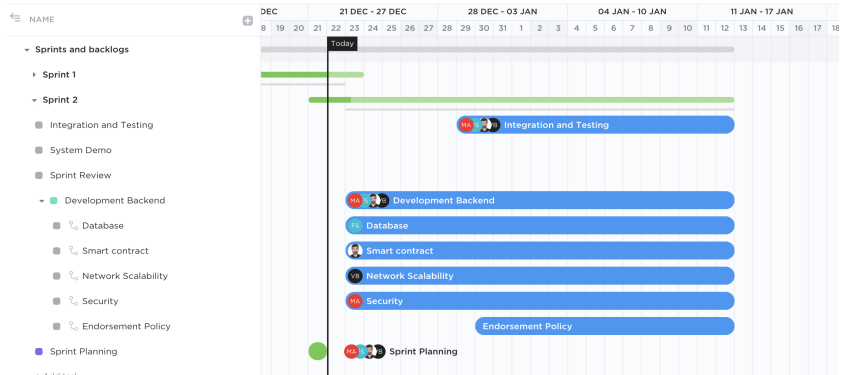
Scenario

- 2 hospitals with 1 peer each join the network and create a channel.
- 1 ordering service is available.
- Patients access the ledger through the hospital peer to invoke the smart contract.
- New EHR is generated when patient visits the hospital and committed to the ledger.
- Both the hospital peers will endorse the transaction. (for now).
- Data should be stored in the encrypted form.
- Patient grants access to the doctor when he visits the hospital for the first time.

Sprint 1



Sprint 2



Thank You!