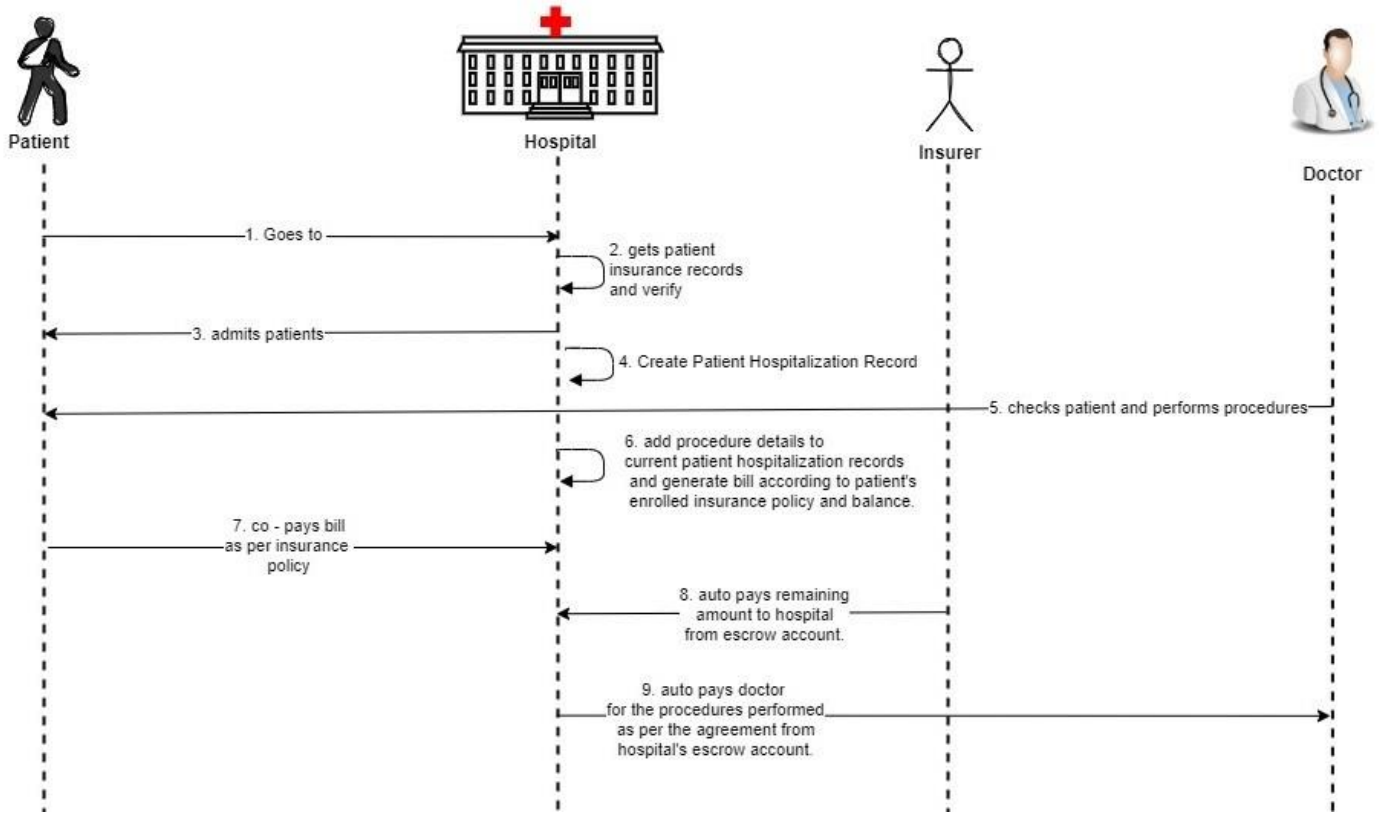
MediC: Medical Settlement Ecosystem

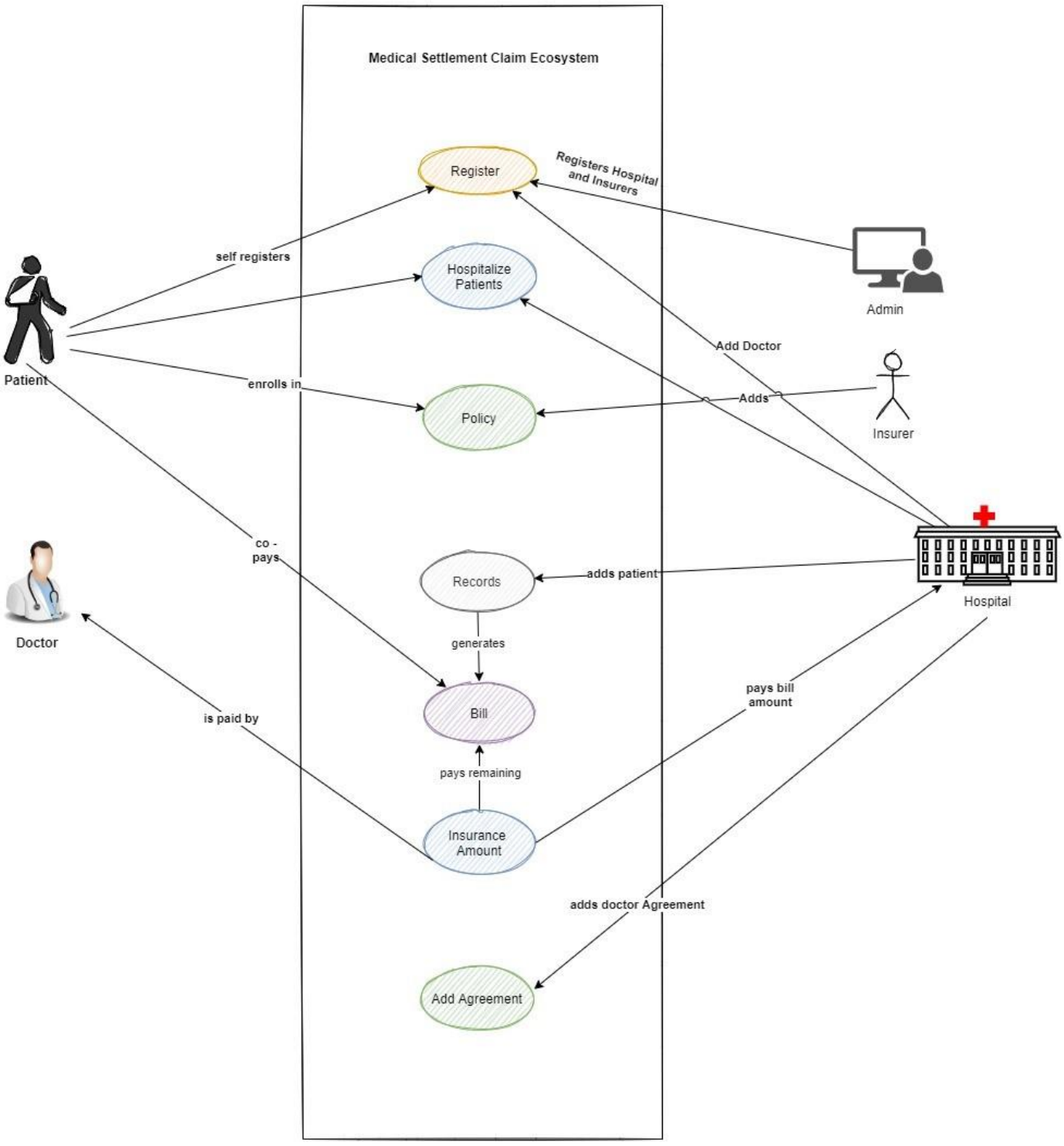
Repo URL: https://github.com/vchaurasia95/MediC-The-Medical-Payments-Ecosystem

Sequence Diagram:

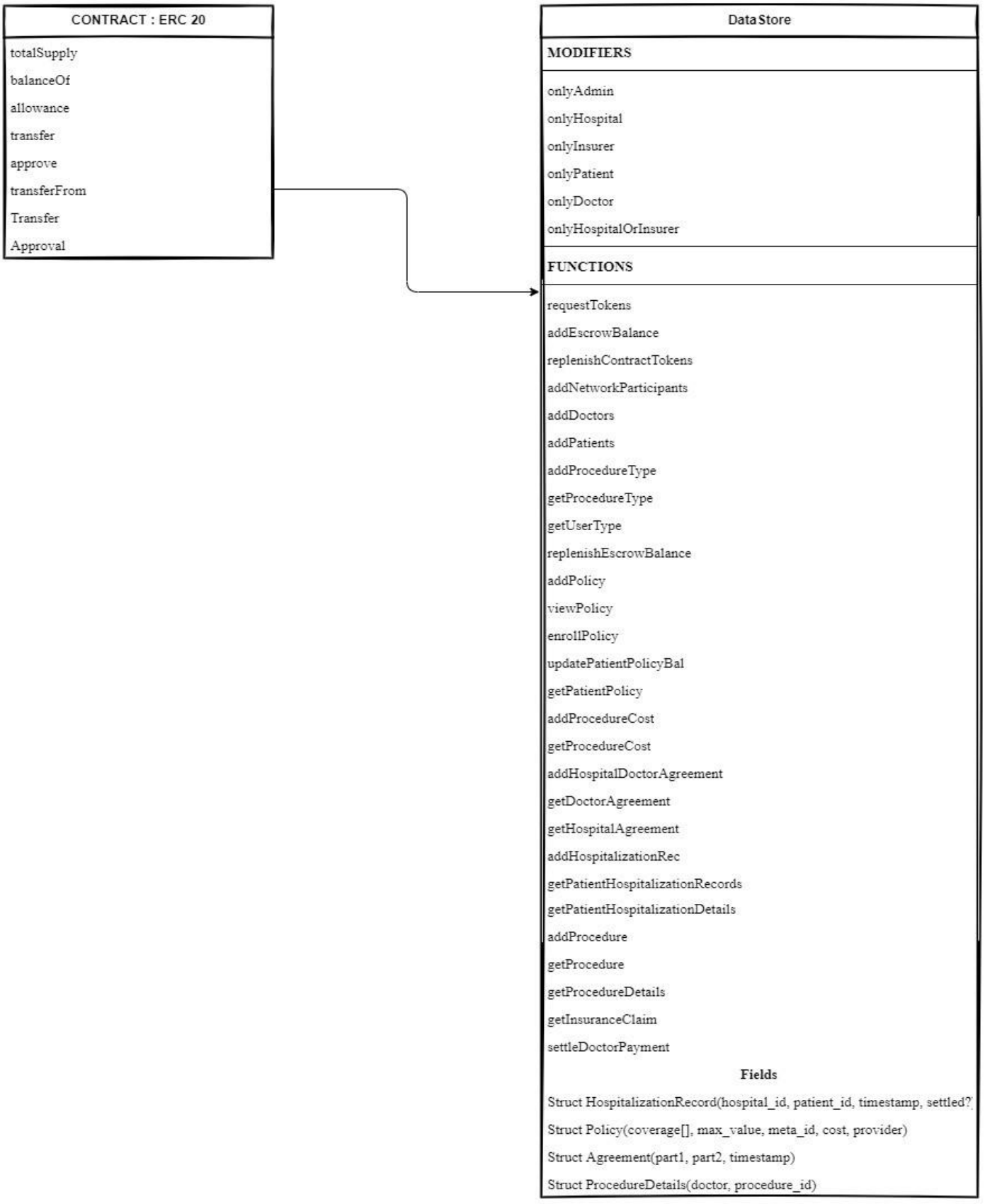


- Patient goes to the hospital and the hospital fetches patient records and verifies his insurance policy and admits him.
- The doctor working in the hospital checks the patient for illnesses and performs medical procedures.
- The hospital adds these costs for performing medical procedures to the patient's record.
- The hospital then generates the patients' medical bills.
- The patient pays the co–pay part of his bill himself to the hospital and the remaining part is automatically paid by the insurer as per the e patient's insurance policy.
- The hospital then pays the doctor his share of the amount for performing medical procedures.

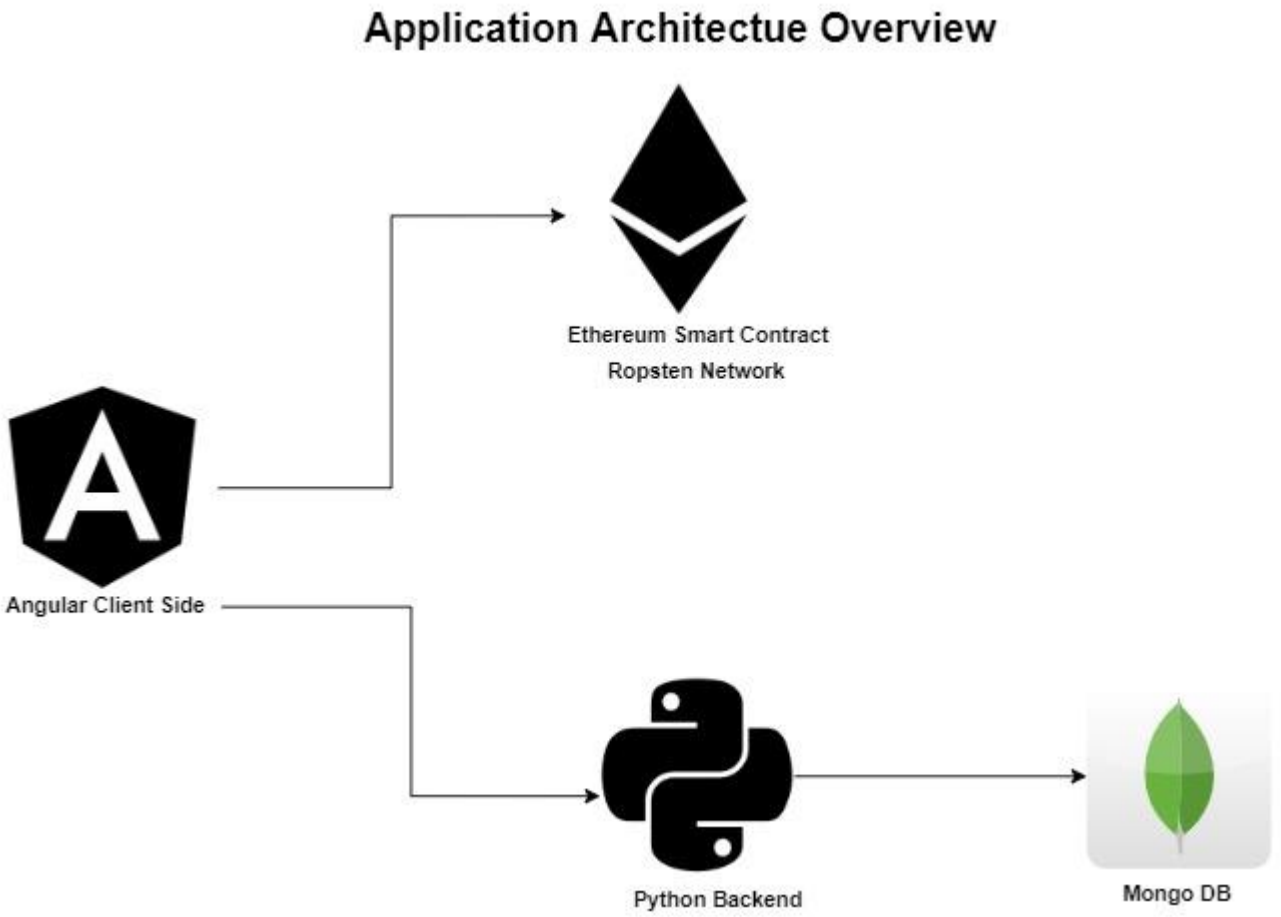
Use Case Diagram:



Contract Diagram



Application Architecture



The above diagram illustrates Application Architecture:

1. Python along with MongoDB server provides the capability to store and retrieve off-chain data through REST end point.
2. The client side is connected to Smart contract by using the web3 instance injected by the Metamask Wallet.