Hyperledger Mentorship Project Presentation

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Introduction

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Hyperledger Project: Hyperledger Fabric
EasyDoser simplifies management of endorsement policies (including private data collections), abstracting away most of the complexities with comparatively easier to use user interface.
Project Objectives:

1. Fetching policies of chaincode (including private data collections) and channels and showing them in an easy to read structure.
2. Updating Endorsement policy and collection policy.
3. Easy way to manage certificates useful for whole task.
4. Running EasyDoser on docker and without docker with same codebase.
EasyDoser

Project Deliverables:

1: EasyDoser Code and release files.
2: Dockerhub Images of EasyDoser.
3: Documentation, video and blog with all the information relating to EasyDoser.
Project Execution & Accomplishments:

- Project had multiple layers of data transfer, REACT Frontend => Golang Server => Fabric Peer Binary.
- Management of certificates and no standard sdk being available for all the tasks made the project quite complicated, but we were able to work through it and complete the project.
- Running instance of Hyperledger Fabric on Github actions for CI was a bit challenging but it works flawlessly now.
- New releases are pushed whenever commits with bumped version are pushed.
- EasyDoser got selected for hyperledger labs, it will soon be pushed to labs.
EasyDoser

› Project Output or Results:
› Link of code:  https://github.com/maniankara/hyperledger-easydoser
› Youtube Video:  https://youtu.be/pGrJxVJ84WQ
Recommendations for future work:

Future Integrations:
- EasyDoser can be possibly integrated with Hyperledger Explorer in the future.

Known Limitations:
- Managed Cloud Networks:
  - Currently for some reason peer binary does not interact with any network other than localhost, that needs to be fixed.

Bugs to be Fixed:
- There after updating endorsement policy fetching endorsement policy using discovery service fails due to some underlying issue of Hyperledger Fabric (Issue #45).
Insights Gained:

- Learned a lot of new things, from a technical point of view as well as opensource community’s point of view.
- People in opensource community always help, they may take some time to reply but they are always helpful, no matter how easy or complicated the question is.
- Learned about managed cloud blockchain service providers.
- Learned a lot about how industries need the projects to work from the mentor.
- Learned about Hyperledger fabric, K8s, docker, etc.
THANK YOU!