



Hyperledger Mentorship Project Presentation

November 2020

EasyDoser

› Introduction

- › **Name:** Abhimanyu Shekhawat
- › **Location:** Jaipur, India
- › **University:** Rajasthan Technical University
- › **Mentor:** Anoop Vijayan
- › **Hyperledger Project:** Hyperledger Fabric

EasyDoser

- › EasyDoser simplifies management of endorsement policies (including private data collections), abstracting away most of the complexities with comparatively easier to use user interface.



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› 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.

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› 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:

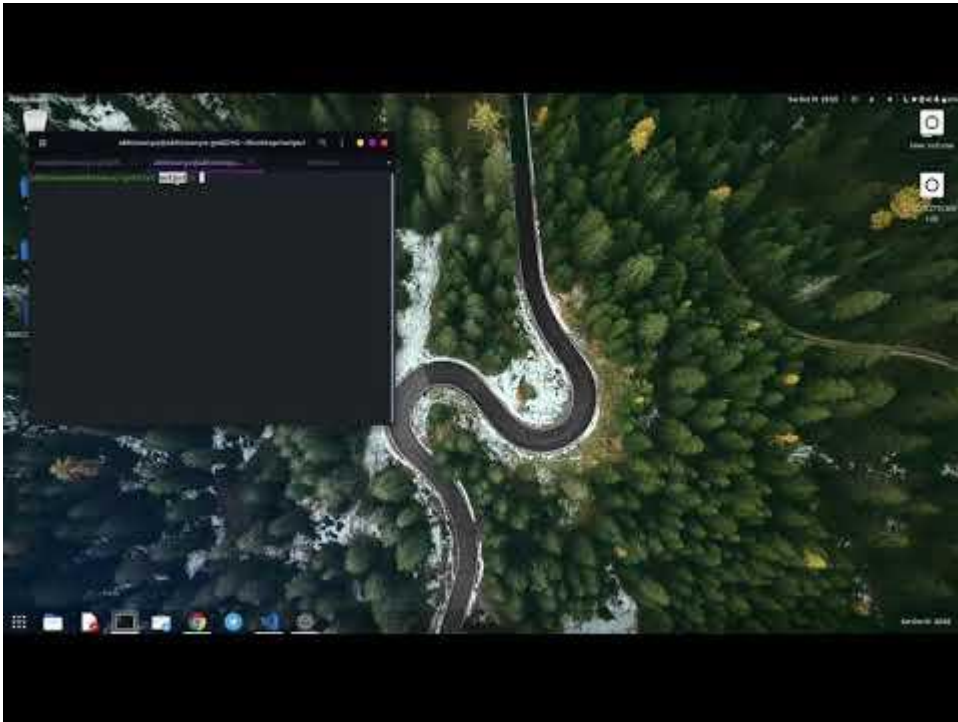
- › Project had multiple layers of data transfer, REACT Frontend => Golang Server => Fabric Peer Binary.
- › Management of certificates and no standard sdk being available for all the tasks made the project quite complicated, but we were able to work through it and complete the project.
- › Running instance 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.

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› Project Output or Results:

› Link of code :- <https://github.com/maniankara/hyperledger-easydoser>

› Youtube Video :- <https://youtu.be/pGrJxVJ84WQ>



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› 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.



A large audience is seated in a conference hall, facing a stage where a speaker is visible. The scene is overlaid with a blue geometric pattern of lines and dots. The text "THANK YOU!" is prominently displayed in the center.

THANK YOU!