



# Hyperledger Mentorship Project Presentation

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# Add interactive examples to Fabric Python SDK

## › Introduction

- › **Name:** Rohan Shrothrium
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- › **University:** Indian Institute of Technology, Dharwad
- › **Mentor(s):** Dixing Xu , Baohua Yang, Guillaume Cisco, Wang Dong
- › **Hyperledger Project:** Hyperledger Fabric Python SDK

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## › Project Description:

The main objective of this project was to gain a deeper understanding about the python sdk framework, add some interactive examples using jupyter notebook and add the missing functionalities of fabric v1.0.

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## › Project Objectives:

- › **Obj 1:** Implement the remaining features for the release of Fabric Python SDK 1.0.0 LTS.
- › **Obj 2:** Add interactive examples using Jupyter Notebook.
- › **Obj 3:** Complete other open objectives that align with the roadmap.
- › **Obj 4:** Document the newly implemented features.

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- › **Project Deliverables:** The main deliverables of the project are as follows
  - › **Deliverable 1:** Implement higher level APIs such as Gateway, Network and Contract in the fabric-network module.
  - › **Deliverable 2:** Add interactive examples using jupyter notebook so that new developers can easily understand the usage of the APIs.
  - › **Deliverable 3:** Make the fabric-sdk-py v1.0.0 LTS release which supports v1.4 of hyperledger fabric.
  - › **Deliverable 4:** Complete implementation of the possible features for compatibility with 2.0.

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## › Project Execution & Accomplishments:

- Completed the implementation of all higher level APIs in the fabric\_network module.
- Added sample code for all APIs using jupyter notebook.
- Was a part of the v1.0.0 release for the python SDK.
- Could not start implementation of the features required for Fabric 2.0.
- **Ongoing:** Change the unit tests from solo consensus to raft.

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## › Recommendations for future work:

- Implementation of features required for v2.0.
- Changing all tests from solo ordering to raft.
- Updating the jupyter notebook when new features are implemented will help developers understand the code in a better fashion.
- The higher level APIs for invoking and/or querying the chaincode may have to be updated with during the release of v2.0 based on the implementation of the lower level APIs.

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## › Project Output or Results:

- The major output from this project would be the implementation of the higher level APIs started in January 2020.
- A list of all my merged PRs can be found [here](#).
- Working on porting all the test cases from Solo ordering to Raft ordering services.



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## › Insights Gained:

- Major takeaway would be learning how to collaborate with mentors remotely over platforms like rocketchat, telegram and zoom.
- Working on such a large scale project with multiple dependencies helped me improve my coding skills.
- Being a part of such a large community helped as I could easily ask doubts on general channels and get responses very quickly.
- Collaborated and interacted with other mentees.

A large audience is seated in a conference room, facing a stage where a speaker is visible. The room is dimly lit, and the audience is focused on the presentation. A blue geometric pattern of lines and circles is overlaid on the left side of the image. The text "THANK YOU!" is centered in the image in a bold, white, sans-serif font.

**THANK YOU!**