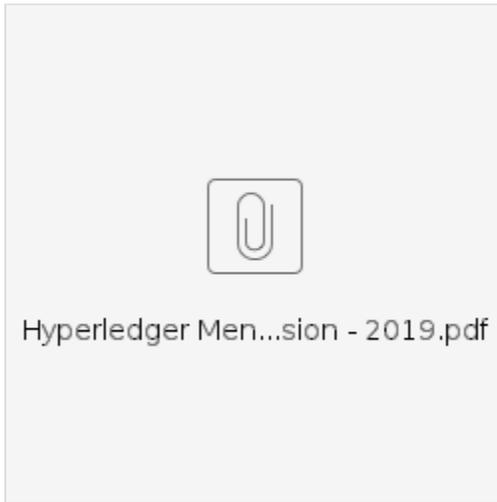


Project Plan: Fabric nodejs SDK security extension

| | |
|------------------|--------------------------------------|
| Project | Fabric nodejs SDK security extension |
| Mentor(s) | David Liu |
| Mentee | Hengming Zhang |
| Status | IN DEVELOPMENT |

Summary Report



Completion

| Description | Due date | Assignee | Task appears on |
|---|-------------|--------------------------------|--|
| <input checked="" type="checkbox"/> Hengming Zhang computing resources checklist. 12 Jul 2019 | 12 Jul 2019 | Hengming Zhang | Project Plan: Fabric nodejs SDK security extension |
| <input checked="" type="checkbox"/> Hengming Zhang fix on integration test failure on various OS. 19 Jul 2019 | 19 Jul 2019 | Hengming Zhang | Project Plan: Fabric nodejs SDK security extension |
| <input checked="" type="checkbox"/> Hengming Zhang keyStore class design refactor. 25 Aug 2019- | 25 Aug 2019 | Hengming Zhang | Project Plan: Fabric nodejs SDK security extension |
| <input checked="" type="checkbox"/> Hengming Zhang HSM compatibility enhance. 06 Oct 2019 | 06 Oct 2019 | Hengming Zhang | Project Plan: Fabric nodejs SDK security extension |
| <input checked="" type="checkbox"/> Hengming Zhang Readme update: new HSM support 06 Oct 2019 | 06 Oct 2019 | Hengming Zhang | Project Plan: Fabric nodejs SDK security extension |
| <input checked="" type="checkbox"/> Hengming Zhang offline signing. 22 Nov 2019 | 22 Nov 2019 | Hengming Zhang | Project Plan: Fabric nodejs SDK security extension |

Project Objectives

| fix on integration test failure on various OS | Jira | Gerrit |
|---|--|---|
| Mac |  Unable to render Jira issues macro, execution error. | https://gerrit.hyperledger.org/r/c/fabric-sdk-node/+32153 |
| Ubuntu |  Unable to render Jira issues macro, execution error. | https://gerrit.hyperledger.org/r/c/fabric-sdk-node/+32153 |

| keyStore class design refactor | Jira | Gerrit |
|---|--|---|
| side task: typescript alignment with fabric-common refactor |  Unable to render Jira issues macro, execution error. | https://gerrit.hyperledger.org/r/c/fabric-sdk-node/+32205 |
| remove cryptoStore Mixin class |  Unable to render Jira issues macro, execution error.  Unable to render Jira issues macro, execution error. | https://gerrit.hyperledger.org/r/c/fabric-sdk-node/+32704 , https://gerrit.hyperledger.org/r/c/fabric-sdk-node/+33647 |

| HSM compatibility enhance | Jira | Gerrit |
|---|--------------|--------------|
| desktop OS: Ubuntu 18 / MacOS / Windows 10 | NOT REQUIRED | NOT REQUIRED |
| server OS (Cloud instance): Ubuntu 18 / Windows Server 2019/ Red Hat Enterprise Linux | NOT REQUIRED | NOT REQUIRED |
| AWS CloudHSM/ IBM HSM / SoftHSM | NOT REQUIRED | NOT REQUIRED |

| | | |
|--------------------------------|--|---|
| Readme update: new HSM support |  Unable to render Jira issues macro, execution error. | https://gerrit.hyperledger.org/r/c/fabric-sdk-node/+33232 , https://gerrit.hyperledger.org/r/c/fabric-sdk-node/+33233 |
|--------------------------------|--|---|

| offline signing | Jira | Gerrit | GitHub |
|---|--------------|--------------|---|
| Find native crypto support in Android / iOS / Chrome / FireFox / Microsoft Edge | NOT REQUIRED | NOT REQUIRED | https://github.com/5sWind/fabric-client-flutter , https://github.com/5sWind/fabric-server-node |

Milestones/Deliverables

- Hengming Zhang computing resources checklist. 12 Jul 2019
 - Cloud account: AWS, IBM Cloud
 - Virtual machine snapshot: on-premise desktop
 - Mobile devices
- Hengming Zhang fix on integration test failure on various OS. 19 Jul 2019
 - Mac
 - Ubuntu
- ~~Hengming Zhang keyStore class design refactor.~~ 25 Aug 2019-
- Hengming Zhang HSM compatibility enhance. 06 Oct 2019
- Hengming Zhang offline signing. 22 Nov 2019
 - general keystore management: cryptoSuite
 - Fabric specific transaction signing utils Design docs
 - Reference: IoT client proposal in hyperledger-lab

Methodology

- almost agile
- JIRA and gerrit commit as delivery target

Documentation

- Hengming Zhang Readme update: new HSM support 06 Oct 2019