

Blockchain Hyperledger Fabric Plugins

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Description

This bundle contains a set of Joget plugins to query and update a [Hyperledger Fabric](#) blockchain network. For detailed instructions and an introduction to Hyperledger Fabric, please refer to the article [Blockchain Made Simple: No-Code Apps with Hyperledger Fabric and Joget](#).

This plugin source code is available in a new open source repository at <https://github.com/jogetoss/>. JogetOSS is a community-led team for open source software related to the Joget no-code/low-code application platform. Projects under JogetOSS are community-driven and community-supported, and you are welcome to contribute to the projects.

Plugin Info

Plugins Available in the Bundle:

1. Hyperledger Fabric Tool
2. Hyperledger Fabric Datalist Binder
3. Hyperledger Fabric Form Binder

This plugin bundle is compatible with Joget DX 8.

Installation

1. Download the plugin JAR file:
[joget-hyperledger-fabric-6.2.2.jar](#)
2. Upload the downloaded jar file through [Manage Plugins](#).
3. Map and configure the tool plugin to any [Process Tool/ Post Form Submission Processing Plugin](#).
4. Map and configure the datalist binder to any [Datalist Binder](#).
5. Map and configure the form binder to any [Form Load Binder](#).
6. A sample app for Joget Enterprise Edition is available for download here:
[APP_fabcar-fabric2.0-20200310143047.jwa](#)
7. Sample connection profile to the Fabcar network:
[connection-fabcar.json](#)
8. The source code for the plugin is available at <https://github.com/jogetoss/joget-hyperledger-fabric>.

Screenshots

Hyperledger Fabric Configuration

User ID *

#envVariable.fabric_user#

Affiliation *

#envVariable.fabric_affiliation#

Membership Service Provider (MSP ID) *

#envVariable.fabric_msp#

User Enrollment

☐ Existing User

☒ Register New User

Admin ID *

#envVariable.fabric_admin#

Admin Secret *

.....

Connection Profile JSON *

#envVariable.fabric_connection?json#

Figure 1: Hyperledger Fabric configuration

Transaction

Chaincode ID *

fabcar

Function Name *

createCar

Function Arguments

FUNCTION ARGUMENTS

#form.fabcar.Key#

#form.fabcar.make#

#form.fabcar.model#

#form.fabcar.color#

#form.fabcar.owner#

+

Transaction Type


☐ Query

☒ Update

☒ Debug Mode

Figure 2: Fabric Transaction options

Store To Form

 STORE SUCCESS STATUS (TRUE OR FALSE)

Form


Fabcar Form

Field Mapping

transaction_status

Figure 3: Storing transaction status to form field

Store To Workflow Variable


STORE SUCCESS STATUS (TRUE OR FALSE)

Workflow Variable Mapping

transaction_status (Fabcar Form Approval Process)

X v

Figure 4: Storing transaction status to workflow variable

Common Errors And Troubleshooting

If you are hitting a similar error such as below:-

```
WARN 12 Feb 2023 21:48:11 org.hyperledger.fabric.sdk.PeerEventServiceClient - PeerEventServiceClient{id: 151,
channel: mychannel, peerName: peer0.org1.example.com, url: grpc://peer0.org1.example.com:7051}
PeerEventServiceClient{id: 151, channel: mychannel, peerName: peer0.org1.example.com, url: grpc://peer0.org1.
example.com:7051} attempts 10 Status returned failure code 403 (FORBIDDEN) during peer service event
registration
```

The solution is to delete the **wflow/hf_users** folder.

Changelog

Version	Items
6.2.2	Upgraded to fabric-sdk-java 2.2.6 Upgraded to commons-io 2.8.0 Upgraded to guava 3.1.1-jre
6.2.1	Updated for Hyperledger Fabric 2.2
6.2.0	Updated for Hyperledger Fabric 2.0
6.1.0	Updated for Hyperledger Fabric 1.4 on IBM Blockchain Platform
6.0.0	Initial release