

# PropertyBlock-Network



## Contributors:

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**This is a project for CFDev 03 at The Blockchain Hub, at York University  
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## Objective:

Digital Property Network is a platform for users to digital exchange the property ownership over a Hyperledger smart contract network. This Defines a business network where house sellers can list their properties for sale.

## Tools Used for This Project:

- An ubuntu instance was created on Amazon AWS with Hyperledger Fabric deployed.
- The Hyperledger Composer was used as a tool to help in the development of the PropertyBlock-network.
- The sample DigitalProperty-network was used as a basis with edits being made to the library and model files in the chain code.

## PropertyBlock-network is defined as:

**Participant** Person

**Assets** LandTitle SalesAgreement

**Transaction** RegisterPropertyForSale 'BlockedProperty' 'UnBlockedProperty'  
A Person is responsible for a LandTitle. By creating a SalesAgreement between two Person participants you are then able to submit a RegisterPropertyForSaletransaction.

## **How the Network Functions:**

The network has the following abilities and functions:

- Register a new property on the network
- Puts a new property for sale on the network
- Transfer the ownership of the property
- Add the information to the land title information of the asset
- Completes the review of a property registered on the network and refrain it from getting sold on the network identified by propertyId
- Completes the review of all the properties registered on the network and allows it to sale on the network identified by propertyId

## **Transactions that can be completed on the network:**

- Registers new property on the network for sale
- Block a property on the network
- Unblock a property on the network

## ***Sources:***

- Hyperledger Fabric documentation
- Hyperledger Composer documentation
- The Linux Foundation resources