

Enterprise Blockchain - Hyperledger

Module 1: Introduction

Web 3.0
Blockchain
Distributed Ledger Technology

Module 2: Hyperledger

What is Hyperledger?
Hyperledger Umbrella
Why Hyperledger?

Module 3: Hyperledger Fabric

Introduction
Modularity
Permissioned Blockchain
Smart Contract/Chaincode
Deterministic v/s Non-Deterministic
Problems with Smart Contract
A New Approach by Fabric
Privacy and Confidentiality
Pluggable Consensus

Module 4: Hyperledger Fabric Programming

Fishing Industry Application

Defining Our Actors
Featured Hyperledger Fabric Elements
The Catch
The Incentives
The Sale
Regulators
Gaining Network Membership

Module 5: Key Components of Hyperledger Fabric

Roles within a Hyperledger Fabric Network

How to Reach Consensus

Transaction Flow

Channels

State Database

State Contracts

Membership Service Provider(MSP)

Fabric-Certificate Authority

Module 6: Chaincode

Chaincode

Chaincode Key APIs

Overview of Chaincode Program

Sample Chaincode Decomposed - Dependencies

Sample Chaincode Decomposed - Struct

Sample Chaincode Decomposed - Init

Sample Chaincode Decomposed - Invoke Method

Sample Chaincode Decomposed - Main Function

Module 7: Chaincode in details

Setting the Stage

Defining the Asset Attributes

Invoke Method(Part 1)

Invoke Method(Part 2)

Chaincode Methods - queryTuna

Chaincode Methods - initLedger

Chaincode Methods - recordTuna

Chaincode Methods - queryAllTuna

Chaincode Methods - changeTunaHolder

Module 8: Writing Application

Build an application on Hyperledger Fabric

203/Ratnmani Bldg, Near Platform No. 1, Opp. Rajdarshan Society, Thane West
Web: www.nettechindia.com Phone : 9870803004/ 9870803005