

Blockchain Architecture Training

Course Summary

Description

This instructor-led Blockchain Architecture training class covers the environment of SOA 3.0 in which Blockchain, Hyperledger, and realtime use-cases are covered extensively. You will learn the main technologies for supporting Blockchain for business and how these technologies fit together. This class provides participants with an intensive hands-on work of Blockchain Design Decisions to support all Business Policies Implementation.

Objectives

After taking this course, students will be able to:

- Understand the main Blockchain Architecture Design and how blocks in a Blockchain interact
- Gain an understanding of how Blockchain and Legacy applications communicate within SQL & NoSQL structures, built and implemented.
- Learn tools (DRAW.IO, HyperLedger), technologies, concepts and processes that comprise the technical infrastructure of Blockchain Solution
- Solve problems about Design Decisions and document architecture.

Topics

- Blockchain Architecture - Design
- Blockchain Business Models and Concepts using DRAW.IO – Hands-On
- Blockchain Hands-On Architecture Design (using CouchDB)

Audience

This course is for those wanting to understand the main Blockchain Architecture Design and how blocks in a Blockchain interact.

Prerequisites

There are no prerequisites for this course.

Duration

Three days

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Course Outline

I. Blockchain Architecture - Design

- A. The difference between Legacy Systems Architecture and Blockchain
- B. Unique features of Blockchain Solutions
- C. Types of Blockchain
- D. Origins and Growth of Blockchain
- E. Differences between Blockchain 1.0 (BitCoin) and Blockchain 2.0 (Ethereum)
- F. Organizing themes of Blockchain

II. Blockchain Business Models and Concepts using DRAW.IO – Hands-On

- A. Elements of a business model
- B. Business-to-Consumer (B2C) business models
- C. Business-to-Business (B2B) business models
- D. Consumer-to-Consumer (C2C) business models
- E. Business models using Hyperledger
- F. How the Blockchain and Hyperledger change business, strategy, structure, and process
- G. Blockchain Solution Testing Strategies

III. Blockchain Hands-On Architecture Design (using CouchDB)

- A. Blockchain Solution Planning
- B. Blockchain SDLC Steps Selection
- C. Building the Blockchain System
- D. Blockchain System Testing Design Decisions
- E. Implementation and maintenance
- F. CouchDB Use-Case Design