ITP4116Q Blockchain Database
Laboratory 05

Exercise: Creating Assets and Managing Ownership Transfers in BigchainDB

Objective:

By the end of this exercise, participants will be able to:

- Create multiple users with key pairs.
- Create and manage digital assets.
- Perform ownership transfers between users.
- Query the database for asset details and ownership history.

Requirements:

1. Create users with public key and private key.
2. Create a TypeScript project that can manage the asset (Create and Transaction)
3. Each Asset should have more than 3 transactions and no reply owner allowed for the transaction.

Sample Users (Please take note and use it later)

Username	Name	Public Key	Private Key

Sample Assets

Asset Name	Description	Creator	Type
Digital Artwork	A unique piece of digital art	(User 1)	Art
Music Track	A new music track	(User 2)	Music
Research Paper	A groundbreaking research paper	(User 3)	Document
Software License	A license for a software product	(User 4)	Software
Photograph	A high-resolution photograph	(User 5)	Photo