

PROJECT SPECIFICATION

Private Blockchain

Configure LevelDB to persist dataset

CRITERIA	MEETS SPECIFICATIONS
Configure simpleChain.js with levelDB to persist blockchain dataset using the level Node.js library.	SimpleChain.js includes the Node.js level library and configured to persist data within the project directory.

Modify simpleChain.js functions to persist data with LevelDB

CRITERIA	MEETS SPECIFICATIONS
addBlock(newBlock) function includes a method to store newBlock with LevelDB.	addBlock(newBlock) includes a method to store newBlock within LevelDB
Genesis block persist as the first block in the blockchain using LevelDB	Genesis block persist as the first block in the blockchain using LevelDB. Additionally, when adding a new block to the chain, code checks if a Genesis block already exists. If not, one is created before adding the a block.

Modify validate functions

CRITERIA	MEETS SPECIFICATIONS
Modify the validateBlock() function to validate a block stored within levelDB	validateBlock() function to validate a block stored within levelDB

CRITERIA	MEETS SPECIFICATIONS
Modify the validateChain() function to validate blockchain stored within levelDB	validateChain() function to validate blockchain stored within levelDB

Modify getBlock() function

CRITERIA	MEETS SPECIFICATIONS
Modify getBlock() function to retrieve a block by it's block heigh within the LevelDB chain.	getBlock() function retrieves a block by block heigh within the LevelDB chain.

Modify getBlockHeight() function

CRITERIA	MEETS SPECIFICATIONS
Modify getBlockHeight() function to retrieve current block height within the LevelDB chain.	getBlockHeight() function retrieves current block height within the LevelDB chain.