LN-history Architecture

Data

.NET **Backend** (C#)

Clients

Domain **Core** **Api**

Bitcoin blocks

CouchDB

Documents storing block data

Bitcoin.Data
- Fetches Blocks using Indices and Views
- Provides interfaces to query the database

Bitcoin.Core

Calculates Mining Rewards

LightningGraph

Provides a classes with methods to do graph theory very fast

LN-history.Model

Provides model classes for
- BitcoinBlock
- LightningNodes
- LightningChannels

REST API

LN-history.Api

Provides RESTful API endpoints
  -Bitcoin
  -LightningNetwork
  -Channels
  -Nodes

gossip messages

QuestDB

Tables indexed by timestamp

LN-history.Data
- Queries tables using time-series functions
- Provides interfaces to query the database

LN-history.Core

Analyses the Lightning Network using graph theory

LNs

Buckets storing data of LNs

LN-history.Cache

Provides interfaces for caching Lightning Networks

JS