Naledi Key Service Data Model Diagram

DocumentIdentifier
-id: string
-dateCreated: date
-lastUpdated: date
-version: long

UserDocument
-doi: DocumentIdentifier
-owner: UserModel.doi.id
-name: string
-meta: string // data about the doc
-share: UserModel.doi.id
-expires: date
-status: Valid|Expired

ChallengeCode
doi: DocumentIdentifier
type: Document|Access
sendTo: string
sendDate: date
expires: date
status: Active|Canceled|Expired

UserModel
-doi: DocumentIdentifier
-username: string
-fullname: string
-email: string
-sms: string
-status: Active|Inactive|Banned

Session
-ssid: string
-peerPubKey: []byte
-myPubKey: []byte
-myPrivKey: []byte
-user: UserModel
-lastRecd: int
-lastSent: int
-expires: int64

AccessKeys
-id: string
-key: string

Access keys are stored separately from model records. Keys are used to authenticate users, encrypt/decrypt documents, etc. Document keys are encrypted using the server's local key prior to saving in remote db.