# NTC Data Service API

## Data Schema

### Datapool Schema

* Unique Application ID: string
* Unique Creator wallet ID: string
* Data Pool Name: string
* Data Pool Description: string
* Data Schema: string
* Sealed Data: string
* Ref DRT ID : list[string of DRT Asset IDs]
* Unique Contribution Token ID: string
* Unique Append Token ID: string
* Ref Contributors : list [strings] …. [contributor\_wallet, alex\_wallet, bills\_wallet]

### DRT Schema

* DRT Asset ID
* Name of DRT
* Description of DRT
* Url of binary
* Price of DRT
* Amount created

## HTTP Requests & Methods

### POST Create Data Pool

Input parameters:

* Application ID: string
* Creator wallet ID: string
* DRT: list[string]
* Data Pool Name: string
* Data Pool Description: string
* Data Schema: string
* Contribution Token ID: string
* Contributors = list [strings] …. [contributor\_wallet, alex\_wallet, bills\_wallet]

Output:

* Creator wallet ID: string
* DRT: list[string]
* Data Pool Name: string
* Data Pool Description: string

### PUT Update Datapool information

Input parameters:

* Application ID: string
* Sealed Data: string
* Contribution Token ID: string
* Contributors = list [strings] …. [contributor\_wallet, alex\_wallet, bills\_wallet]

### GET Data Pool information

Input parameters:

* Creator wallet ID: String

Output:

* Creator wallet ID: string
* DRT: list[string]
* Data Pool Name: string
* Data Pool Description: string

### GET Sealed Data

Input parameters:

* Wallet ID: string
* Datapool Name: string

Output

* Sealed Data

### 

### POST WASM binary

Input parameters:

* WASM Binary
* Name of WASM Binary

### GET WASM binary

Input parameters:

* Name of WASM Binary

Output:

* WASM Binary.

## Create Data Pool

### User flow (High Level):

1. User inputs the following details: Data (JSON file), schema (JSON file), Data Pool Name, Data Pool Description, DRTs allowed to be executed on data.
2. Data sent to the execution enclave for sealing and sent to data service to be stored.
3. Store Contributor Token Information.
4. Query the blockchain for DRTs that have been issued, to display to the user.

## Questions

1. Once data is sealed, (apart from the sealed data and Creator wallet ID) what other information should be stored?
2. In the data service, should we have two schemas: 1) Data Schema (keeps track of sealed data?) 2) Datapool Information (stores information about a datapool such as: Name, Description, DRTs that can be issued, etc) or create one schema that
3. What does contributor token information consist of?
4. What is the data type of WASM binary?
5. Can any user join a pool?