Lagoon-SDK

What is Lagoon-SDK

The following document explains using `@optum-lagoon/sdk` node.js package/ library which allows users to consume Lagoon data in their respective applications:

- `@optum-lagoon/sdk` is a Node.js library available on UHC internal artifactory

- This SDK allows one to consume Lagoon in React.js, Angular or any other Node.js applications (including graphQL)

- This SDK is independent of Abyss

- Note: Lagoon-SDK allows only to consume AWS S3 based tables and forms in your namespace. It doesn't allow consuming Stargate adapter-based table's data. For consuming Stargate adapter-based table's data, applications can use the Stargate API directly

How-To install Lagoon-SDK

- Install `@optum-lagoon/sdk` using standard npm install/ yarn install to your node package
  (Note: The latest version as of April 15th is 0.0.6. One can check the latest available version from [this artifactory](#))

How-To Consume Lagoon-SDK

Pre-requisite: Before Lagoon data can be consumed in your application, one needs to set-up a Lagoon namespace, tables/ forms, populate data etc..

1. The first step up to consume lagoon data is to import and initialize the `lagoon` object with the specific namespace and environment of your choice. The environment is typically driven by some environment variable where your application is running

2. Typically, initialization of `lagoon` object is done at root level of your application, to avoid repetitive fetching of the data for each page/ component

3. Once is `lagoon` initialized, the lagoon object can be:
   a. Stored in a react-context (applicable for react based UI applications) and let child components can consume from the react context

       b. Stored in high level or global scope (applicable API/ Graphql usage), so it is accessible in the APIs/ functions that needed Lagoon data

4. Use the `lagoon` object to fetch specific table or specific table-row through `getTable(<table-key>)` and `getTable(<table-key>).getRow(<row-key>)` methods.

5. If we don't specify row key (`getRow()` or `getRow(null))`, it will fetch all rows in the specified table.

Sample Code Snippet

Here is a sample code snippet to understand the usage of the library:

```
const { lagoon } = require('@optum-lagoon/sdk');

const testLagoon = async () => {

  // Initialize lagoon object
  // - Only fetch table data, then specify: {loadTables: true,
loadForms: false}
  // - Only fetch form data, then specify: {loadTables: false,
loadForms: true}
  // - Both table and form data, then specify: {loadTables: true,
loadForms: true}


  await lagoon.initialize('sde-claims', 'dev', {loadTables: true,
loadForms: false});

  // Retrieve specific table row
  const claimActionsRow = lagoon.getTable('feature-toggles').getRow('CLAIM_ACTIONS_V3');
```