



Standard Operating Procedures

Tribal Database

Scheme Transaction Events



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1. Name of APIs

Department authentication & Tribal Database Mapping APIs

2. Objective

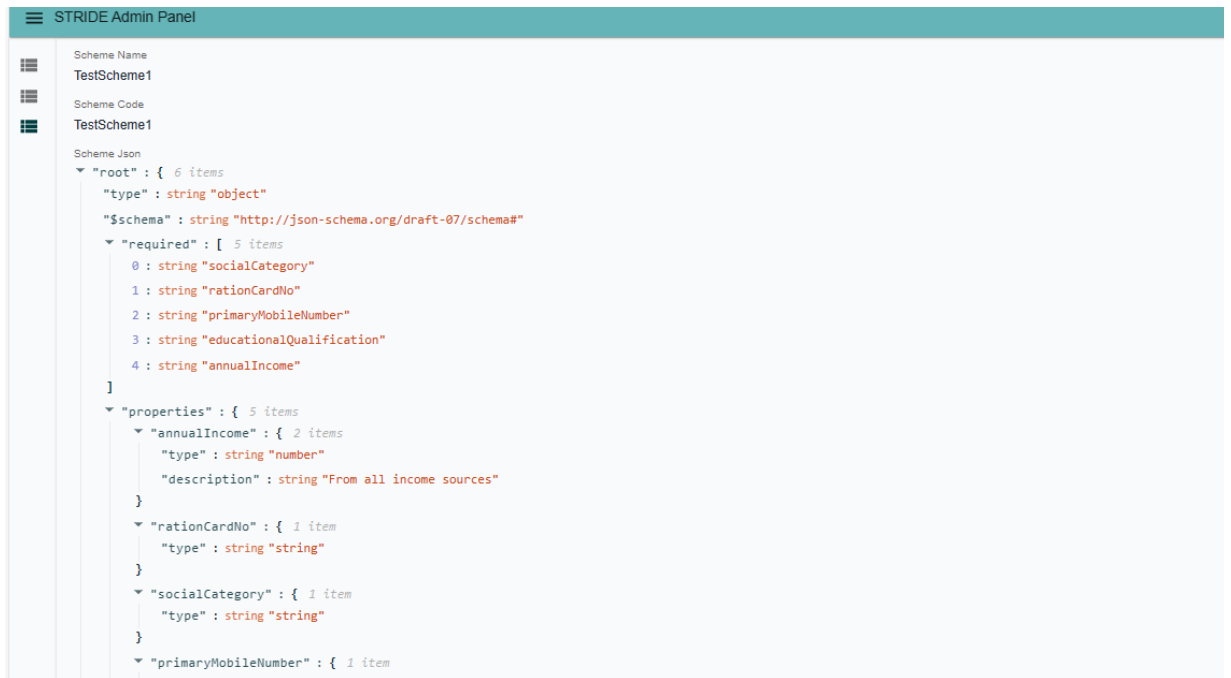
The authentication API would be consumed by the department to get an authentication token which would be used to consume the subsequent APIs. This API call's token would be valid for 24 hours.

The objective of TD Database Mapping API is to map beneficiaries and households of Tribal citizens in Odisha on the various entitled departmental scheme databases.

This API works in the backend in a batch/loop in the department's own environment.

1. The Tribal Database & its concerned APIs are deployed at the secured Odisha State Data Center (OSDC).
2. The APIs would be called in multiple steps. In step 1, Authentication API will be consumed by the concerned department followed by the scheme transaction APIs.
3. The 'Save Scheme Transaction' API saves/syncs Scheme transaction details from department databases to the Tribal Database and in its output; highlights total transactions synced to TD and total transactions with errors while saving. A transactionID gets created to identify the batch of transactions saved.
4. The 'Transaction History' API is for the department to check details of saves and errors in transactions mapped to the transactionID(input parameter).
5. The 'Progress' API can be consumed by the department at any time to summarize the total number of records synced into the Tribal Database.
6. Each concerned department has defined a unique ID to its beneficiary against their services. This unique beneficiary ID will be passed in Tribal Database API along with other input parameters.
6. The input request parameter "Remark" is optional. It will be used while providing any other information, the department stakeholders consider important while passing on the beneficiary and scheme benefit data i.e. Q1/Q2/Q3/Q4, Yearly, Half Yearly, Special efforts etc. relevant to the scheme transaction.
7. In addition to progress tracking API's; departments can access the data transfer progress and the details of fields expected from them on this admin panel - [STRIDE Admin \(odisha.gov.in\)](https://stride.odisha.gov.in)

Navigate to scheme information ; **STE > schemes** > scheme specific information with validation parameters (sample screenshot added below for test-scheme)



To track summary of batches of data sent;

STE > transactions(per transaction ID) or Records(per row of information)

(sample screenshot added below for test-scheme)

STRIDE Admin Panel										Columns	Export
Transactions											
ID ↑	Total Records	Valid Records	Invalid Records	Contains Error	Valid Records Saved	Transaction Start Time	Transaction End Time	View Full Data			
38f62880-7217-44ca-b88f-7586fc556f7f	2	1	1	✓	✓	2023/12/20 17:21:42	2023/12/20 17:21:42	VIEW FULL DATA			
e850ab5d-1d7b-4735-afac-5cb87770372b	2	1	1	✓	✓	2023/12/20 17:20:20	2023/12/20 17:20:20	VIEW FULL DATA			
92534bae-9801-436f-83fa-6889011efaa7	2	2	0	✗	✓	2023/12/20 17:20:16	2023/12/20 17:20:16	VIEW FULL DATA			
73d10d27-6b26-4280-8371-e6dd9a758d6	2	0	2	✓	✓	2023/12/20 17:19:49	2023/12/20 17:19:49	VIEW FULL DATA			
31a5401e-9242-4426-9db5-57b17c4274db	4	2	2	✓	✓	2023/12/20 17:04:49	2023/12/20 17:04:49	VIEW FULL DATA			
7e37aa19-8310-445a-8d96-725fd87ed2db	4	1	3	✓	✓	2023/12/20 17:04:20	2023/12/20 17:04:20	VIEW FULL DATA			
bbef445d-1d9e-4fd9-bc04-ca2871498864	4	2	2	✓	✓	2023/12/20 17:03:59	2023/12/20 17:03:59	VIEW FULL DATA			
c835d463-b7fa-4e7d-8c83-b1b512762c7f	4	2	2	✓	✓	2023/12/20 17:03:36	2023/12/20 17:03:36	VIEW FULL DATA			
0bfcd7d7-5dda-4e69-b8e2-9a2017714085	500	485	15	✓	✓	2023/12/12 17:22:48	2023/12/12 17:22:48	VIEW FULL DATA			
e1886fe1-ea37-4284-ac31-604b333bc462	500	485	15	✓	✓	2023/12/08 12:15:31	2023/12/08 12:15:37	VIEW FULL DATA			
Rows per page: 10 1-10 of 757 < 1 2 3 4 5 ... 76 >											

8. Username and Passwords for Admin and API URLs for PR&DW

Username	SUGAM
Password	SUGAM@2024



The tribal database STE-APIs must be consumed by the department multiple times in loops/batches to share the benefit transaction data post-authentication.

3.1.1 Production API

This API will be used by the technical team of the concerned department to get an authentication token which will be valid for 24 hours. This token will be used as an input header in the subsequent transaction API's.

URL	https://qlistsc.odisha.gov.in/backend/ste/authenticate
HTTP Method	POST

3.1.2 Payload input for authentication

(will be provided to each department)

```
None
{
  "username": "XXXXXXX",
  "password": "XXXXXXX"
}
```

3.1.3 Data in API Response:

a) Successful authentication

```
None
{
  "status": "success",
  "message": "Authenticated",
  "token":
    "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6IjJDSWFWb1N4cHo4c25WMHZNs0o2UmduYGR2byJ9.eyJhdWQiOiI5YTZhZWVjZW50ODZmLTQ0ZTUtYjY0Zi03OGVhbnZMxMWExYzgiLCJleHAiOiE3MDI5NjEwMDQsImhhbmFtYyNTAwNCwiaXNzIjoieWNtZS5jb20iLCJzdWIiOiI3NDlhYTdlZS0wNmNlI4LTQ3ZWVjYjkyMC05NTJkMTBiMGIlZmYiLCJqdGkiOiJiYjFiNTIxNC0xMmNmLTRhbnZmYmJINS1jZjU5NmVhZDhkNWElLCJhdXRoZW50aWVhdGlubHR5cGUioiJQQVNTV09SRCIsInByZWZlcmlJZF91c2VybmFtZSI6ImRlcGFydGllbnRfMSIsImFwcGxpY2F0aW9uSWQiaWUiOiI5YTZhZWVjZW50ODZmLTQ0ZTUtYjY0Zi03OGVhbnZMxMWExYzgiLCJyb2xlcyl6WyJkZXBhcncRtZW50IH0sInNpZCI6IjUwZDM5ODE1LWNIMmltNDVINy1hNWYxLWE0MzY3Y2NiZjEyNSIsImF1dGhfdGltZSI6MTcwMTY2NTAwNCwidGlkljoiMWZIYTl4NDYtNzBjZS02NWQ4LWY2M2UtYzVjMDY4YTE4YWElbn0.U_b66A-RwXnAwkozy3vBC0nw0bMSXLBVVzSe0ra3rLTNGHDte-RcA-LdhCFKXimc8NrJgJs_t6DppMdJx8wwVI0nAVTQAqNcnHvvq9e1M9ibIRY31JfnTd03a279xsWRxypTmOXg1-HGgOIEh0YxCN5mOfgd99fAAPbWoRqxAPPyqPJLk3yp9UDObHXs5P5bkrWrRb-MuAemWMSZ"
```



b) Failure in authentication

3.2. TD-Save scheme Transaction API

This API will be used by the technical team of the concerned department to save/sync scheme transaction data into the Tribal Database

URL	https://qlistsc.odisha.gov.in/backend/ste/saveSchemeTransaction
HTTP Method	POST

3.2.2 Request Input Header (as received from authentication API)

6



3.2.3 Request Body

JavaScript

```
{
  "data": [
    {
      "schemeCode": "AR9PK",
      "aadhaarReferenceNumber": "1234567890123",
      "uniqueBeneficiaryId": "123456",
      "financialYear": "2022-23",
      "transactionType": "Cash",
      "transactionAmount": "5000",
      "inKindBenefitDetail": "NA",
      "transactionDate": "31-12-2023",
      "schemeData": {
        "socialCategory": "ST",
        "rationCardNo": 123412341234,
        "primaryMobileNumber": "1234567890",
        "educationalQualification": "X",
        "annualIncome": "100000"
      }
    },
    {
      "schemeCode": "AR9PK",
      "aadhaarReferenceNumber": "1234567890123",
      "uniqueBeneficiaryId": "123456",
      "financialYear": "2022-23",
      "transactionType": "Cash",
      "transactionAmount": 5000,
      "inKindBenefitDetail": "NA",
      "transactionDate": "31-12-2023",
      "schemeData": {
        "socialCategory": "ST",
        "rationCardNo": 123412341234,
        "primaryMobileNumber": "1234567890",
        "educationalQualification": "X",
        "annualIncome": "100000"
      }
    },
    {
      "schemeCode": "AR9PK",
      "aadhaarReferenceNumber": "1234567890123",
      "uniqueBeneficiaryId": "123456",
      "financialYear": "2022-23",
      "transactionType": "Cash",
      "transactionAmount": 5000,
      "inKindBenefitDetail": "NA",
      "transactionDate": "31-12-2023",
      "schemeData": {
        "socialCategory": "ST",
        "rationCardNo": "123412341234",
        "primaryMobileNumber": "1234567890",
        "educationalQualification": "X",

```



```
{
  "annualIncome": 100000
},
{
  "schemeCode": "AR9PK",
  "aadhaarReferenceNumber": "1234567890123",
  "uniqueBeneficiaryId": "123456",
  "financialYear": "2022-23",
  "transactionType": "Cash",
  "transactionAmount": 5000,
  "inKindBenefitDetail": "NA",
  "transactionDate": "31-12-2023",
  "schemeData": {
    "socialCategory": "ST",
    "rationCardNo": "123412341234",
    "primaryMobileNumber": "1234567890",
    "educationalQualification": "X",
    "annualIncome": 100000
  }
}
]
```

3.2.4 Data required for calling the API (Request Input Parameters)

#	Input Parameters	Data type	Mandatory / Optional	Description	Example
1	Scheme Code	varchar	M	Code assigned to the scheme as in below table	SFSSCH, NFSMS, etc.
2	Aadhaar Reference Number	int (13 digit)	M	Aadhaar reference number as shared by UIDAI	13 digit Aadhaar reference number
3	Unique beneficiary ID	varchar	M	Unique ID assigned to beneficiary in your database	Farmer ID, etc.
4	Financial year	int	M	Financial year in which benefit transferred Data to be shared for 3 years: 2022-23, 2021-22, 2020-21	2021-22, 2022-23
5	Transaction type	varchar	M	1. Enter "Cash" is financial support given to beneficiary 2. Enter "InKind" if non-financial input given to beneficiary. Eg: Seeds/fertilizer distribution 3. Enter "Cash" if both financial support and in-kind benefit given	Cash, In-Kind



6	Transaction amount	int	M	If transaction Type = "Cash" Enter amount in Rupees Else Enter "0"	2000, 1200, etc.
7	In-Kind benefit detail	varchar	M	If transaction Type = "InKind" Enter name of input provided to beneficiary Else Enter "NA"	Seeds, fertilizer distribution, etc
8	Transaction date	date	M	Date of amount disbursement Format: dd/mm/yyyy	Eg: 31/12/2023
9	Remarks	varchar	O	Any additional remarks that are relevant	
10	SchemeData	JSON Object	M	Enter blank string as {} Scheme specific information, fields and validation can be accessed on admin module	{}

#	Scheme Name	Scheme Code
1	Special Fruit Specific Scheme	SFSSCH
2	National Food Security Mission (NFSM) - Support for Cultivation and Expansion of Oil Palm	NFSMS
3	Horticulture Programme in Non - Mission Districts (State Plan) 2022-23	HPNMD23
4	Pradhan Mantri Krishi Sinchayee Yojana (PDMC-MI)	PMKSY
5	Pradhan Mantri Krishi Sinchayee Yojana (PDMC-OI)	PMKSYOI
6	Mukhyamantri Krushi Udyog Yojana	MKUDY

Transaction type	Code
Cash	C
In-Kind	IK
Cash + In-Kind	CIK
Non-DBT	ND

Frequency of benefit transfer	Code
One-time	OT
Yearly	Y
Quarterly	Q
Monthly	M
Fortnightly	F
Demand based	D



Financial Year (indicative)
2016-17
2017-18
2018-19
2019-20
2020-21
2021-22
2022-23
2023-24

3.2.5 Data in API Response

JavaScript

```
{
  "transactionId": "7f9ff6e2-049e-4431-930a-d994ae64a22f",
  "savedTransactionsCount": 2,
  "errorTransactionsCount": 2,
  "errors": {
    "0": {
      "transactionAmount": "TRANSACTION AMOUNT SHOULD BE AN INTEGER",
      "schemeData": {
        "annualIncome": "must be number"
      }
    },
    "1": {
      "schemeData": {
        "annualIncome": "must be number"
      }
    }
  }
}
```

Key	Description
transactionID	Can be used in Transaction History API to check status for Save Scheme Transaction API call
savedTransactionsCount	Number of scheme transactions saved successfully to the database.
errorTransactionsCount	Number of Scheme transactions with errors



errors	It's a JSON object, with the key as the index of a faulty transaction in the request body.
--------	--

3.3. TD-Transaction history API

3.3.1 Production API

This API will be used by the technical team of the concerned department to check the details of records saved to the database with error/success messages.

URL	https://qlistsc.odisha.gov.in/backend/ste/transactionHistory/\${transactionId}
HTTP Method	POST

3.3.2 Request Input Header (as received from authentication API)

None

```
{
  "Authorization": "Bearer
eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImlpkUVpfQVlxdTNHVVBBDnNfdzdUU256anAy
OCJ9.eyJhdWQiOiJkNTJiZWFKYi1lOGQxLTQ0ZDA0OGVmNS1hYmE3OTA0NTE0ZjEiLCJleHAiOiJlNDIy
3MDMyODcsImh0cCI6MTY5ODY5OTY4NywiaXNzIjoieYWNtZS5jb20iLCJzdWIiOiIyNjQ5ZDg3Yi1kNDI
yLTRlNDAtODUwNS0wMGNlOTE2MWZjMzkiLCJqdGkiOiJiYzZlOTMzOC0xZjk5LTRhZWYtYTcwMy1hNTM
0OTk5OTQ2MmUiLCJhdXRoZW50aWNhdGlvb1R5cGU0iOiJQVNTV09SRClSInByZWZlcnJlZF91c2VybW
tZSI6Ikk1RTRFOe1E1T1RrNU9UazVNREVBIIiwieYXBwbGljYXRpb25JZCI6ImQ1MmJlYWRLWU4ZDEtNDR
kMC04ZWY1LWFiYTc5MDQ1MTRmMSIsInJvbGVzIjpbImZhbmVseS1JdLCJzaWQiOiI3ZGQ1MjRlNi1lNDU
wLTQ4NDEtODU0S0M3MDA3NmNiMzc1OGMiLCJhdXRoX3RpbWUiOiJlNDIyOTQ2MmU0ZDQ1MTRmMSIsInR
pZCI6IjU4MGI1MDE3LWI1NzU0NTg3OC0xY2EyLTMyYjI2MjZkNDJjMSJ9.ED7MKunU31SRakxGCN17_-9uk-g09QQXD8
QF-GhFwFiI-LL9LVUa1uyMkYVWInA3wHeg_jaQe7_A9Jz06R5Giu5hXORf3Tc1Zt304smKJ-eUeLrL4
vLzBRsGDQ5YDQcuYMBJQERF1tch7NCanY9WBdBPM1NXNQTsOU99ZOF5U_OybCtNZPzdV4N8BnuPPYfU4
TRckhY5MDcqKHbo3sCr8yn63KVctEsQ70_MXZSAw6L6RMk8gNTcWK_d7hrataD4KFI9Cdo3R0xdGz9jP
GfH8DombG1CGvgnoYWKxYN2ReBukfZ6irpovHWQ1LnaC91_JaWUpk0V7gxpTIF0FQE_Q"
}
```

3.3.3 Sample Data in API Response

JavaScript

```
{
  "id": "7f9ff6e2-049e-4431-930a-d994ae64a22f",
  "request_body": [
    {
      "schemeCode": "AR9PK",
    }
  ]
}
```



```
"schemeData": {
  "annualIncome": "100000",
  "rationCardNo": "123412341234",
  "socialCategory": "ST",
  "primaryMobileNumber": "1234567890",
  "educationalQualification": "X"
},
"financialYear": "2022-23",
"transactionDate": "31-12-2023",
"transactionType": "Cash",
"transactionAmount": "5000",
"inKindBenefitDetail": "NA",
"uniqueBeneficiaryId": "123456",
"aadhaarReferenceNumber": "1234567890123"
},
{
  "schemeCode": "AR9PK",
  "schemeData": {
    "annualIncome": "100000",
    "rationCardNo": "123412341234",
    "socialCategory": "ST",
    "primaryMobileNumber": "1234567890",
    "educationalQualification": "X"
  },
  "financialYear": "2022-23",
  "transactionDate": "31-12-2023",
  "transactionType": "Cash",
  "transactionAmount": "5000",
  "inKindBenefitDetail": "NA",
  "uniqueBeneficiaryId": "123456",
  "aadhaarReferenceNumber": "1234567890123"
},
{
  "schemeCode": "AR9PK",
  "schemeData": {
    "annualIncome": "100000",
    "rationCardNo": "123412341234",
    "socialCategory": "ST",
    "primaryMobileNumber": "1234567890",
    "educationalQualification": "X"
  },
  "financialYear": "2022-23",
  "transactionDate": "31-12-2023",
  "transactionType": "Cash",
  "transactionAmount": "5000",
  "inKindBenefitDetail": "NA",
  "uniqueBeneficiaryId": "123456",
  "aadhaarReferenceNumber": "1234567890123"
},
{
  "schemeCode": "AR9PK",
  "schemeData": {
    "annualIncome": "100000",
    "rationCardNo": "123412341234",
    "socialCategory": "ST",
    "primaryMobileNumber": "1234567890",
    "educationalQualification": "X"
  },
  "financialYear": "2022-23",
  "transactionDate": "31-12-2023",
  "transactionType": "Cash",
  "transactionAmount": "5000",
  "inKindBenefitDetail": "NA",
  "uniqueBeneficiaryId": "123456",
  "aadhaarReferenceNumber": "1234567890123"
}
],
```



```
"total_records": 4,  
"valid_records": 2,  
"invalid_records": 2,  
"contain_errors": true,  
"valid_records_saved": true,  
"errors": {  
  "0": {  
    "schemeData": {  
      "annualIncome": "must be number"  
    },  
    "transactionAmount": "TRANSACTION AMOUNT SHOULD BE AN INTEGER"  
  },  
  "1": {  
    "schemeData": {  
      "annualIncome": "must be number"  
    }  
  }  
},  
"user_id": "c51e4e0c-b326-44aa-bdb0-3ba5850ac106",  
"transaction_start_time": "2023-12-21T11:05:49.785Z",  
"transaction_end_time": "2023-12-21T11:05:49.795Z",  
"created_at": "2023-12-21T11:05:49.796Z",  
"updated_at": "2023-12-21T11:05:49.796Z"  
}
```

Key	Description
requestBody	Contains request body for transaction
errors	JSON object with keys that corresponds to the index of scheme transaction inside of requestBody. Value is a String array, containing errors in that scheme transaction.

3.4. TD-Progress API

3.4.1 Production API

This API will be used by the technical team of the concerned department to check the progress summary of total records saved successfully.

URL	https://qlistsc.odisha.gov.in/backend/ste/progress
HTTP Method	GET

3.4.2 Request Input Header (as received from authentication API)

None

{

"Authorization": "Bearer

```

eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCIsImtpZCI6ImlkUWpQV1xdTNHVVBBDTnNfdzduUU256anAyOCJ9.eyJhdWQiOiJkNTJiZWZkYiIiOIGQxLTQ0ZDA0OGVmNS1hYmE3OTA0NTE0ZjEiLCJleHAiOiJlE2OTg3MDMyOjE0DScImlhdCI6MTY5ODY5OTY4NywiaXNzIjoiYWNTZS5jb20iLCJzdWlloIiYnNjQ5ZDg3YiIkdndiYlTRINDA0DUwNS0wMGNIOTE2MWZjMzkiLCJqdGkiOiJiYzZlOTMzMzOC0xZjk5LTRhZWYtYUwMy1hNTM0OTk5OTQ2MmUiLCJhdXRoZW50aWwNhdGlvbR5cGUOiJlQjQVNTV09SRClInByZWZlcnJlZlF9I2VybW50FtZSI6I1k16RTFOelE1T1RrNU9UazVnREVBliwiYXBwbGljYXRpb25JZC16ImQ1MmJlYWRiLWU4ZDEtNDRkMCM04ZWY1LWFiYUe5MDQ1MTRmMSIsInJvbGVzIjpbImZhbmWseSjdLjZaWQioiIi3ZGQ1MjRlNi1NDUwLTQ4NDtODU4OS03MDA3NmNiMzclOGMiLCJhdXRoX3RpbWUiOiJlE2OTg2OTk2ODesInRpZC16IjU4MGI1MDE3LWI1NzUtNtG3OC0xY2EyLTMyYjI2MjZkNDJjMSJ9.ED7MKunU31SRakxGCN17_-9uk-g09QQXD8QF-GhFwFI-LL9LVUa1uyMkYVWInA3wHeg_jaQe7_A9JzO6R5Giu5hXORf3Tep1Zt304smKJ-eUeLrL4vLzBRsGDQ5YDQcuYMbJQERF1tch7NCanY9WBdBPM1NXNQTSOU99ZOF5U_OybCtNZPzd4vN8BnuPPYfU4TRckhY5MDcqKHbo3sCr8yn63KVctEsQ70_MXZSAw6L6RMk8gNTeWK_d7hrataD4KFI9Cdo3R0xdGz9jPGfH8DombGICGvgnoYWKxYN2ReBukfZ6irpovHWQILnaC91_JaWUpk0V7gxpTIF0FQE_Q"
}

```

3.4.3 Data in API response

JavaScript

{

```
"records_saved": 2
```

}

4. Sample Code (Java) for Calling TD Seeding API

Calling Method

Please note that this is a reference code for calling APIs not the exact script

Java

```
public class SchemeTransaction
{
    public string SchemeCode { get; set; }
    public string AadhaarReferenceNumber { get; set; }
}
```



```
public string UniqueBeneficiaryId { get; set; }
public string FinancialYear { get; set; }
public string TransactionType { get; set; }
public int TransactionAmount { get; set; }
public string InKindBenefitDetail { get; set; }
public string TransactionDate { get; set; }
public string Remarks { get; set; }
public object DepartmentData { get; set; }
}

// Read database from the database, and return List of
// SchemeTransaction
static List<SchemeTransaction> GetDataFromDatabase(string connectionString, int
batchSize, int offset, <date> ## to_date(custom_Define))
{
    //Database connection & query code
    //change query result to List of SchemeTransaction according to document
    provided above
}

static async Task PostSchemeTransactionData(string apiUrl,
List<SchemeTransaction> data, string bearerToken)
{
    using (var httpClient = new HttpClient()) {

        // Create a dictionary with the "data" key and the array of SchemeTransaction as
        the value
        var requestData = new Dictionary<string, List<SchemeTransaction>>() {
            {
                "data", data
            }
        };

        // Serialize the data to JSON, including the DepartmentData property
        var jsonData = Newtonsoft.Json.JsonConvert.SerializeObject(requestData, new
Newtonsoft.Json.JsonSerializerSettings {
            NullValueHandling = Newtonsoft.Json.NullValueHandling.Ignore
        });

        // Modify the headers and other settings based on your API requirements
        var content = new StringContent(jsonData, Encoding.UTF8, "application/json");

        // Add Bearer token to the headers
        httpClient.DefaultRequestHeaders.Authorization = new
System.Net.Http.Headers.AuthenticationHeaderValue("Bearer", bearerToken);

        // Make the POST request
        var response = await httpClient.PostAsync(apiUrl, content);

        // Check the response status
        if (response.IsSuccessStatusCode) {
            // Save response for debugging purpose, in case of record save failure
            Console.WriteLine("Data successfully posted to the API");
        } else {
            Console.WriteLine($"Error: {response.StatusCode}");
        }
    }
}
```



}

}

}