



**india.gov.in**  
national portal of india

**keenable**  
Keen & Able Computers Private Limited

# Project - National Portal of India 2.0



## API Exploration

# S3WaaS providing data through API of components :

## Objectives



- Knowindia - tourist places
- Knowindia - accommodation
- Knowindia - photo gallery
- Knowindia - culinary delights
- Knowindia - helpline
- Knowindia - produce
- Knowindia - public utilities (School)
- District- Who is Who

### ❑ Analysis of above mentioned API responses

- **Mapping** the API response into common & specific fields as per the guidelines document shared by the NIC NPI team (NPI\_2.0\_datasources\_and\_metadata)
- Proposed some **new attributes in common and specific portions** as and when required

### ❑ Suggesting faceted “Search” fields from the response received

### ❑ Suggesting Business use case

# Analysis API Responses

Objective : 1

**1.1 Content Type : Know India - Tourist Place**



REQUEST URL = [https://api.s3waas.gov.in/api/v1/get\\_touristplaces](https://api.s3waas.gov.in/api/v1/get_touristplaces)

### Request PayLoad

```
{
  "deviceId": "ffffff-c0f8-4e30-ffff-ffffef05ac4a",
  "categoryId": "",
  "searchText": "",
  "stateId": "",
  "districtId": "",
  "placeTypeId": "",
  "pageIndex": "1",
  "recordPerPage": "10",
  "most_liked": "0",
  "most_viewed": "0",
  "popular": "0",
  "language": "en",
  "ignore_id": "kNiZvYQBvAOITNx44CEb"
}
```

**Total Records : 3149**

### Response

```
{
  "resultFlag": 1,
  "message": "Detail Found",
  "cache": 0,
  "data": {
    "totalRecords": 3159,
    "pages": 316,
    "PlaceList": [
      {
        "index": "touristplace",
        "type": "doc",
        "id": "h96gdYgBvAOITNx4Pm_8",
        "image": "https://cdn.s3waas.gov.in/s36bc24fc1ab650b25b4114e93a98f1eba/uploads/2018/08/2018081222.png",
        "title": "MANDARTHI SHREE DURGAPARAMESHWARI TEMPLE",
        "url": "https://udupi.nic.in/en/tourist-place/mandarthi-shree-durgaparameshwari-temple",
        "latitude": 13.4979,
        "longitude": 74.8104,
        "totalViews": 0,
        "totalLikes": 0,
        "isLiked": 0,
        "cityName": "Udupi",
        "cityID": 829,
        "stateName": "Karnataka",
        "statecode": "KA",
        "stateID": 15,
        "placeCategoryName": [
          "Religious"
        ],
        "placeCategoryID": [
          321
        ]
      },
      {
        "stayDetails": [],
        "video_url": "",
        "id": 3334,
        "imageList": {
          "title": "god_temple",
          "alt": "mandharthi",
          "image": "https://cdn.s3waas.gov.in/s36bc24fc1ab650b25b4114e93a98f1eba/uploads/2018/08/2018081222.png",
          "thumb_img_url": "https://cdn.s3waas.gov.in/s36bc24fc1ab650b25b4114e93a98f1eba/uploads/2018/08/2018081222-150x150.png",
          "full_img_url": "https://cdn.s3waas.gov.in/s36bc24fc1ab650b25b4114e93a98f1eba/uploads/2018/08/2018081222.png"
        },
        "gallery_images": [
          {
            "title": "god_temple",
            "alt": "mandharthi",
            "image": "https://cdn.s3waas.gov.in/s36bc24fc1ab650b25b4114e93a98f1eba/uploads/2018/08/2018081222.png",
            "thumb_img_url": "https://cdn.s3waas.gov.in/s36bc24fc1ab650b25b4114e93a98f1eba/uploads/2018/08/2018081222-150x150.png",
            "full_img_url": "https://cdn.s3waas.gov.in/s36bc24fc1ab650b25b4114e93a98f1eba/uploads/2018/08/2018081222.png"
          }
        ],
        "languages": [
          "en",
          "kn"
        ]
      }
    ]
  }
}
```

# API Response Know India - Tourist Places : Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
id		Unmapped (To be filled by pipeline)	
title/name	"title": "MANDARTHI SHREE DURGAPARAMESHWARI TEMPLE",	Mapped	This will be taken into account for free text search
description		Unmapped	
url	"url": "https://udupi.nic.in/en/tourist-place/mandarthi-shree-durgaparameshwari-temple/",	Mapped	we shall fill based on API url??
lineage		Unmapped	Kindly share mapping tables for lineage
Sector		Unmapped	
Keywords	Unmapped (To be filled by pipeline)		To be added by Pipeline . What is difference between tags and keywords
tags	Unmapped (To be filled by pipeline)		To be added by Pipeline . keywords need to be discussed
people group	Unmapped		What is to be filled ?
language	"languages": [ "en", "kn" ]	Mapped	default is english
source	Unmapped (To be filled by pipeline)		What is to be filled ?
source record id	"_id": "h96gdYgBvAOITNx4Pm_8",	Mapped	Assume this is given in API response
source language	"languages": [ "en", "kn" ]	Mapped	default is english (this is duplicate of language) perhaps can be removed

# API Response Know India - Tourist Places : Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query/Remarks
source published date	created_at	Mapped	
workflow state		Unmapped (To be filled by pipeline)	This will tell the pipeline processing status like ACQUIRED, TRANSFORMED, TAGGED
updated by -		Unmapped (To be filled by pipeline)	This will be the user id of the pipeline
created at		Unmapped (To be filled by pipeline)	This will be the date when the data is fetched in NIP
updated at		Unmapped (To be filled by pipeline)	This will be the date when the data is updated in NIP
archival date		Unmapped (To be filled by pipeline)	This will be the date when the data is archived in NIP
size		Unmapped (To be filled by pipeline)	This will be the size of the data received of one record
lastHitStatusCode		Unmapped (To be filled by pipeline)	This will be the HTTP status code when pipeline hits the source url e.g 200,404 etc
md5 hash		Unmapped (To be filled by pipeline)	This will be the md5hash of the data received of one record
itemBody		Unmapped (To be filled by pipeline)	This will be the API response body
Facet Search Map		Unmapped	To be added by pipeline based on the faceted search options for the data Ps: this did not exist earlier Eg:stateName:Haryana,category:Historic

## API Response Know India - Tourist Places : Specific Fields..Mapping

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
category	"placeCategoryName": [ "Historic" ]	Mapped	
Featured image url	"image": "https://cdn.s3waas.gov.in/s3c9e1074f5b3f9fc8ea15d152add07294/uploads/2018/05/2018051460.jpg",	Mapped	There will no images stored in NIP
photos		Unmapped	Is it same as 'Featured image url'. If yes, it can be removed
Video url	"video_url": "https://www.youtube.com/watch?v=ourYdg5UUhE"	Mapped	
How to reach		Unmapped	What is to be filled here ?
Custom category		Unmapped	Is it same as 'ategory'. If yes, it can be removed
Popularity	Popularity(totalViews,totalLikes,isLiked)	Mapped	This was not existing earlier. Do we add this ? should this be used in faceted search
geolocation	"latitude": 8.3914769, "longitude": 77.2594318	Mapped	lat/long is blank in some data points

## Objective : 2

### Suggested Search Facets



*"Based on a review of the Know India Tourist Places API response received, the following search types are suggested to improve search capabilities:"*

- Simple Text Search
- Faceted Search

**Simple Text Search :** This is similar to 'google search' and we need to define **surface areas of search** like title,state etc

**Faceted Search :** We may offer options in faceted search to make the search more comprehensive.

- GeoLocation  
(longitude, latitude) - Distance (How to find range)
- Popularity  
(totalViews, totalLikes, isLiked) - Star Rating (star rating bases on 3 attribute)
- stateName
- Place Category Name - Like Historic (if PlacecategoryName is empty then what & how)



## Objective :3 Suggesting Business Use Cases



*Faceted options offered for e.g searching the tourist places in Uttarakhand.  
Search becomes more narrow with each Facet selection*

Usecase	Search Attributes
Show <b>historic</b> places in <b>UK</b>	Image,video,title,state,city_name,geoLocation
Show <b>popular historic</b> places in <b>UK</b>	Image,video,title,state,city_name,geoLocation
Show <b>popular historic</b> places in UK <b>near me</b>	Image,video,title,state,city_name,geoLocation

# Analysis API Responses

Objective : 1

**1.2 Content Type : Knowindia - Accommodation**



REQUEST URL = <https://api.s3waas.gov.in/api/v1/getAccommodationList>

### Request PayLoad

```
{
  "deviceId": "10E6B617-914F-4380-9C42-7393D0EB058D",
  "categoryId": "",
  "searchText": "",
  "stateId": "",
  "districtId": "",
  "pageIndex": "1",
  "recordPerPage": "10",
  "most_liked": "0",
  "most_viewed": "0",
  "language": "en",
  "ignore_id": "xtgePYUBvAOITNx4tmSY"
}
```

Total Records : 451

### Response

```
{
  "resultFlag": 1,
  "message": "Detail Found",
  "totalRecords": 451,
  "pages": 46,
  "cache": 0,
  "data": [
    {
      "index": "whereistay",
      "type": "doc",
      "_id": "dtsMmYcBvAOITNx4Sroq",
      "source": {
        "image": "https://cdn.s3waas.gov.in/s33416a754cea9109507cacd8e2f2aefc/uploads/2019/07/2019071823.jpg",
        "title": "The Urmi",
        "totalViews": 0,
        "totalLikes": 0,
        "is_liked": 0,
        "cityName": "Haridwar",
        "cityID": 491,
        "stateName": "Uttarakhand",
        "statecode": "UK",
        "stateID": 35,
        "placeCategoryName": [
          "Commercial",
          "Hotel"
        ],
        "placeCategoryID": [
          465,
          466
        ],
        "category": [
          {
            "id": 465,
            "category": "Commercial"
          }
        ],
        "subCategory": [
          {
            "id": 466,
            "category": "Hotel"
          }
        ],
        "content": "",
        "id": 27128,
        "imageList": [
          {
            "title": "hotel-the-urmi-haridwar",
            "alt": "the-urmi-haridwar",
            "image": "https://cdn.s3waas.gov.in/s33416a754cea9109507cacd8e2f2aefc/uploads/2019/07/2019071823.jpg",
            "thumb_img_url": "https://cdn.s3waas.gov.in/s33416a754cea9109507cacd8e2f2aefc/uploads/2019/07/2019071823-150x150.jpg",
            "full_img_url": "https://cdn.s3waas.gov.in/s33416a754cea9109507cacd8e2f2aefc/uploads/2019/07/2019071823.jpg"
          }
        ],
        "siteurl": "https://haridwar.nic.in",
        "url": "https://haridwar.nic.in/accommodation/the-urmi",
        "created_at": "2019-07-18T12:22:06",
        "updated_at": "2019-07-19T08:27:18",
        "email": "reservation@theurmi.com",
        "address": "Ganga Vihar Colony, Near Shantikunj, Bhupatwala, Haridwar",
        "phone": "9006005665",
        "website_link": "http://www.theurmi.com",
        "pincode": "",
        "latitude": 0,
        "longitude": 0,
        "languages": [
          "en",
          "hi"
        ]
      }
    ]
  },
}
```

# API Response Know India - Accommodation Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
id		Unmapped (To be filled by pipeline)	
title/name	"title":"The Urmi"	Mapped	This will be taken into account for free text serach
description		Unmapped	
url	"siteurl":"https://haridwar.nic.in" "url":"https://haridwar.nic.in/accommodation/the-urmi/"	Mapped	we shall fill based on API url??
lineage		Unmapped	Kindly share mapping tables for lineage
Sector		Unmapped	
Keywords	Unmapped (To be filled by pipeline)		To be added by Pipeline . What is difference between tags and keywords
tags	Unmapped (To be filled by pipeline)		To be added by Pipeline . keywords need to be discussed
people group	Unmapped		What is to be filled ?
language	"languages": [ "en", "kn" ]	Mapped	default is english
source	Unmapped (To be filled by pipeline)		What is to be filled ?
source record id	,		
source language			

# API Response Know India - Accommodation : Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query/Remarks
source published date	created_at	Mapped	
workflow state		Unmapped (To be filled by pipeline)	This will tell the pipeline processing status like ACQUIRED, TRANSFORMED, TAGGED
updated by -		Unmapped (To be filled by pipeline)	This will be the user id of the pipeline
created at		Unmapped (To be filled by pipeline)	This will be the date when the data is fetched in NIP
updated at		Unmapped (To be filled by pipeline)	This will be the date when the data is updated in NIP
archival date		Unmapped (To be filled by pipeline)	This will be the date when the data is archived in NIP
size		Unmapped (To be filled by pipeline)	This will be the size of the data received of one record
lastHitStatusCode		Unmapped (To be filled by pipeline)	This will be the HTTP status code when pipeline hits the source url e.g 200,404 etc
md5 hash		Unmapped (To be filled by pipeline)	This will be the md5hash of the data received of one record
itemBody		Unmapped (To be filled by pipeline)	This will be the API response body
Facet Search Map		Unmapped	To be added by pipeline based on the faceted search options for the data Ps: this did not exist earlier Eg:stateName:Haryana,category:Historic

## API Response Know India - Accommodation : Specific Fields..Mapping

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
category	"category":[ { "id":465, "category":"Commercial" }]	Mapped	
Featured image url	"image":"https://cdn.s3waas.gov.in/s33416a75f4cea9109507cacd8e2f2aefc/uploads/2019/07/2019071823.jpg"	Mapped	There will no images stored in NIP
photos	"imageList":{ "title":"hotel-the-urmi-haridwar", "alt":"the-urmi-haridwar", "image":" <a href="https://cdn.s3waas.gov.in/s33416a75f4cea9109507cacd8e2f2aefc/uploads/2019/07/2019071823.jpg">https://cdn.s3waas.gov.in/s33416a75f4cea9109507cacd8e2f2aefc/uploads/2019/07/2019071823.jpg</a> ", "thumb_img_url":"https://cdn.s3waas.gov.in/s33416a75f4cea9109507cacd8e2f2aefc/uploads/2019/07/2019071823-150x150.jpg", "full_img_url":"https://cdn.s3waas.gov.in/s33416a75f4cea9109507cacd8e2f2aefc/uploads/2019/07/2019071823.jpg" }	Mapped	Is it same as 'Featured image url'. If yes, it can be removed
Sub category	"subCategory":[ { "id":466, "category":"Hotel" }]	Mapped	
Address	"address":"Ganga Vihar Colony, Near Shantikuni, Bhunsiwala, Haridwar"	Mapped	

# Queries



*Below are some finding query on attributes:*

- ❖ Do we need to extract the district name from the address?

## Objective : 2

### Suggested Facets search



*"Based on a review of the Know India accommodation API response received, the following search types are suggested to improve search capabilities:"*

- Simple Text Search
- Faceted Search

**Simple Text Search :** This is similar to 'google search' and we need to define **surface areas of search** like title,state etc

**Faceted Search :** We may offer options in faceted search to make the search more comprehensive.

- Place Category Name  
"placeCategoryName": [ "Commercial", "Hotel" ]
- GeoLocation  
(longitude, latitude) - Distance (How to find range)
- Popularity  
(totalViews, totalLikes, isLiked) - Start Rating (star rating bases on 3 attribute)
- stateName



## Objective :3 Business Use Cases



*Faceted options offered for e.g searching the commercial places in Uttarakhand.  
Search becomes more narrow with each Facet selection:*

Usecase	Search Attributes
Show commercial places in <b>UK</b>	Image,video,title,state,city_name,geoLocation
Show <b>popular commercial</b> places in <b>UK</b>	Image,video,title,state,city_name,geoLocation
Show <b>popular commercial</b> places in UK <b>near by me</b>	Image,video,title,state,city_name,geoLocation

# Analysis API Responses

Objective : 1

**1.3 Content Type : Knowindia - PhotoGallery**



REQUEST URL = <https://api.s3waas.gov.in/api/v1/getPhotoGallery>

## Request PayLoad

```
{
  "deviceId": "10E6B617-914F-4380-9C42-7393D0EB058D",
  "categoryId": "",
  "searchText": "",
  "statelId": "",
  "districtId": "",
  "pageIndex": "1",
  "recordPerPage": "10",
  "most_liked": "0",
  "most_viewed": "0",
  "language": "en"
}
```

Total Record : 7230

Size : 25.18kb

## Response

```
{
  "resultFlag": 1,
  "message": "Detail Found",
  "totalRecords": 7230,
  "pages": 723,
  "cache": 0,
  "data": [
    {
      "index": "gallery",
      "type": "doc",
      "id": "yN4ezYgBvAQTNv4KVd",
      "source": {
        "image": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041991.jpg",
        "title": "Bharathi Park and Museum",
        "totalViews": 0,
        "totalAves": 0,
        "isLiked": 0,
        "cityName": "Pondicherry",
        "cityID": 750,
        "stateName": "Puducherry (UT)",
        "statecode": "PY",
        "stateID": 25,
        "galleryCategoryName": [
          "Travel Kamp, Tourism"
        ],
        "galleryCategoryID": [
          10
        ],
        "video_url": null,
        "id": 25347,
        "feature_image": {
          "title": "saiy mandapam, bharathi park",
          "alt": "saiy mandapam, bharathi park",
          "image": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041991.jpg",
          "thumb_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041991-150x150.jpg",
          "full_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041991.jpg"
        },
        "gallery_images": [
          {
            "title": "Bharathi Park Entrance",
            "alt": "Bharathi Park Entrance",
            "image": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041988.jpg",
            "thumb_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041988-150x150.jpg",
            "full_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041988.jpg"
          },
          {
            "title": "saiy mandapam",
            "alt": "saiy mandapam, bharathi park",
            "image": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041991.jpg",
            "thumb_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041991-150x150.jpg",
            "full_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041991.jpg"
          },
          {
            "title": "Statue in Bharathi Park",
            "alt": "Statue in Bharathi Park, Pondicherry",
            "image": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041976.jpg",
            "thumb_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041976-150x150.jpg",
            "full_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041976.jpg"
          },
          {
            "title": "Pillar in Bharathi Park",
            "alt": "Pillar in Bharathi Park, Pondy",
            "image": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041998.jpg",
            "thumb_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041998-150x150.jpg",
            "full_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041998.jpg"
          },
          {
            "title": "Puducherry Museum",
            "alt": "Puducherry Museum, Pondy",
            "image": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041990-1.jpg",
            "thumb_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041990-1-150x150.jpg",
            "full_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041990-1.jpg"
          },
          {
            "title": "Antique Collections",
            "alt": "Antique Collections, Museum",
            "image": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041947.jpg",
            "thumb_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041947-150x150.jpg",
            "full_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ecda1841b3b3728321e7088/uploads/2018/04/2018041947.jpg"
          },
          {
            "skew": "https://puducherry-dt.gov.in/gallery/bharathi-park-and-museum",
            "url": "https://puducherry-dt.gov.in/gallery/bharathi-park-and-museum",
            "created_at": "2018-04-19T06:56:59",
            "updated_at": "2020-02-17T04:36:14",
            "languages": [
              "en",
              "ta"
            ]
          }
        ]
      }
    }
  ]
}
```

# API Response Know India - PhotoGallery Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
id		Unmapped (To be filled by pipeline)	
title/name	"Bharathi Park and Museum",	Mapped	This will be taken into account for free text serach
description		Unmapped	
url	"siteurl": "https://puducherry-dt.gov.in", "url": "https://puducherry-dt.gov.in/gallery/bharathi-park-and-museum/",	Mapped	we shall fill based on API url??
lineage		Unmapped	Kindly share mapping tables for lineage
Sector		Unmapped	
Keywords	Unmapped (To be filled by pipeline)		To be added by Pipeline . What is difference between tags and keywords
tags	Unmapped (To be filled by pipeline)		To be added by Pipeline . keywords need to be discussed
people group		Unmapped	What is to be filled ?
language	"languages": [ "en", "kn" ]	Mapped	default is english
source	Unmapped (To be filled by pipeline)		What is to be filled ?
source record id	,		
source language			

# API Response Know India - Photogallery : Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query/Remarks
source published date	created_at	Mapped	
workflow state		Unmapped (To be filled by pipeline)	This will tell the pipeline processing status like ACQUIRED, TRANSFORMED, TAGGED
updated by -		Unmapped (To be filled by pipeline)	This will be the user id of the pipeline
created at		Unmapped (To be filled by pipeline)	This will be the date when the data is fetched in NIP
updated at		Unmapped (To be filled by pipeline)	This will be the date when the data is updated in NIP
archival date		Unmapped (To be filled by pipeline)	This will be the date when the data is archived in NIP
size		Unmapped (To be filled by pipeline)	This will be the size of the data received of one record
lastHitStatusCode		Unmapped (To be filled by pipeline)	This will be the HTTP status code when pipeline hits the source url e.g 200,404 etc
md5 hash		Unmapped (To be filled by pipeline)	This will be the md5hash of the data received of one record
itemBody		Unmapped (To be filled by pipeline)	This will be the API response body
Facet Search Map		Unmapped	To be added by pipeline based on the faceted search options for the data Ps: this did not exist earlier Eg:stateName:Haryana,category:tourism

## API Response Know India - PhotoGallery : Specific Fields..Mapping

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
category	"galleryCategoryName": [ "Travel & Tourism" ],	Mapped	
Featured image url	"full_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ec0a1841b3b3728321e7088/uploads/2018/04/2018041991.jpg"	Mapped	There will no images stored in NIP
photos	"gallery_images": [ { "title": "Bharathi Park Entrance", "alt": "Bharathi Park Entrance", "image": "https://cdn.s3waas.gov.in/s3b4288d9c0ec0a1841b3b3728321e7088/uploads/2018/04/2018041988.jpg", "thumb_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ec0a1841b3b3728321e7088/uploads/2018/04/2018041988-150x150.jpg", "full_img_url": "https://cdn.s3waas.gov.in/s3b4288d9c0ec0a1841b3b3728321e7088/uploads/2018/04/2018041988.jpg" },	Mapped	Is it same as 'Featured image url'. If yes, it can be removed
Custom category		Unmapped	Is it same as 'category'. If yes, it can be removed

## Objective : 2

### Suggested Facets search



*"Based on a review of the Know India Photogallery API response received, the following search types are suggested to improve search capabilities:"*

- Simple Text Search
- Faceted Search

**Simple Text Search :** This is similar to 'google search' and we need to define **surface areas of search** like title,state etc

**Faceted Search :** We may offer options in faceted search to make the search more comprehensive.

- gallery Category Name  
"galleryCategoryName": [ "Travel & Tourism" ]
- Popularity  
(totalViews, totalLikes, isLiked) - Start Rating (star rating bases on 3 attribute)
- stateName

## Objective :3

### Business Use Cases



*Faceted options offered for e.g searching Photogallery in Uttarakhand.  
Search becomes more narrow with each Facet selection:*

Usecase	Search Attributes
Show <b>photos</b> of <b>Travel &amp; Tourism</b> in <b>UK</b>	stateName, Photos , category, title



Objective : 1



## Analysis API Responses

**1.4 Content Type : Knowindia - Culinary delights**



REQUEST URL = <https://api.s3waas.gov.in/api/v1/getCulinaryList>

### Request PayLoad

```
{
  "deviceId": "10E6B617-914F-4380-9C42-7393D0EB058D",
  "categoryId": "",
  "searchText": "",
  "stateId": "",
  "districtId": "",
  "placeTypeId": "",
  "pageIndex": "1",
  "recordPerPage": "10",
  "most_liked": "0",
  "most_viewed": "0",
  "popular": "0",
  "language": "en"
}
```

Total Records : 165

### Response

```
{
  "resultFlag": 1,
  "message": "Detail Found",
  "totalRecords": 165,
  "pages": 17,
  "cache": 0,
  "data": [
    {
      "index": "culinarydelight",
      "type": "doc",
      "id": "Fd6jcyGbvAOITNx40il",
      "source": {
        "image": "https://cdn.s3waas.gov.in/s354229abfca5649e7003b83dd4755294/uploads/2019/07/2019072122.jpg",
        "title": "Rasaj Kadhi",
        "description": "Rasaj Kadhi is very tasty and popular in all over Shahdol.\n",
        "totalViews": 0,
        "totalLikes": 0,
        "isLiked": 0,
        "cityName": "Shahdol",
        "cityID": 23,
        "stateName": "Madhya Pradesh",
        "statecode": "MP",
        "stateID": 17,
        "placeCategoryName": [
          "Main Course"
        ],
        "placeCategoryID": [
          113
        ],
        "video_url": "",
        "id": 20733,
        "imageList": {
          "title": "Rasaj Kadi",
          "alt": "Rasaj Kadi",
          "image": "https://cdn.s3waas.gov.in/s354229abfca5649e7003b83dd4755294/uploads/2019/07/2019072122.jpg",
          "thumb_img_url": "https://cdn.s3waas.gov.in/s354229abfca5649e7003b83dd4755294/uploads/2019/07/2019072122-150x150.jpg",
          "full_img_url": "https://cdn.s3waas.gov.in/s354229abfca5649e7003b83dd4755294/uploads/2019/07/2019072122.jpg"
        },
        "gallery_images": [],
        "siteurl": "https://shahdol.nic.in",
        "url": "https://shahdol.nic.in/en/culinary-delight/rasaj-kadhi",
        "created_at": "2019-07-21T12:09:38",
        "updated_at": "2019-07-29T09:32:45",
        "importance": [
          "Local"
        ],
        "languages": [
          "en",
          "hi"
        ]
      }
    ]
  },
}
```

# API Response Know India - Culinary delights - Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
id		Unmapped (To be filled by pipeline)	
title/name	"title": "Rasaj Kadhi"	Mapped	This will be taken into account for free text serach
description	"description": "Rasaj Kadhi is very tasty and popular in all over Shahdol.\r\n",	Mapped	
url	"siteurl": "https://shahdol.nic.in", "url": "https://shahdol.nic.in/en/culinary-delight/ra saj-kadhi/",	Mapped	we shall fill based on API url??
lineage		Unmapped	Kindly share mapping tables for lineage
Sector		Unmapped	
Keywords	Unmapped (To be filled by pipeline)		To be added by Pipeline . What is difference between tags and keywords
tags	Unmapped (To be filled by pipeline)		To be added by Pipeline . keywords need to be discussed
people group	Unmapped		What is to be filled ?
language	"languages": [ "en", "kn" ]	Mapped	default is english
source	Unmapped (To be filled by pipeline)		What is to be filled ?
source record id	,		
source language			

# API Response Know India - Culinary Delight : Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query/Remarks
source published date	created_at	Mapped	
workflow state		Unmapped (To be filled by pipeline)	This will tell the pipeline processing status like ACQUIRED, TRANSFORMED, TAGGED
updated by -		Unmapped (To be filled by pipeline)	This will be the user id of the pipeline
created at		Unmapped (To be filled by pipeline)	This will be the date when the data is fetched in NIP
updated at		Unmapped (To be filled by pipeline)	This will be the date when the data is updated in NIP
archival date		Unmapped (To be filled by pipeline)	This will be the date when the data is archived in NIP
size		Unmapped (To be filled by pipeline)	This will be the size of the data received of one record
lastHitStatusCode		Unmapped (To be filled by pipeline)	This will be the HTTP status code when pipeline hits the source url e.g 200,404 etc
md5 hash		Unmapped (To be filled by pipeline)	This will be the md5hash of the data received of one record
itemBody		Unmapped (To be filled by pipeline)	This will be the API response body
Facet Search Map		Unmapped	To be added by pipeline based on the faceted search options for the data Ps: this did not exist earlier Eg:stateName:Haryana,category:Historic

## API Response Know India - Culinary Delights : Specific Fields..Mapping

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
category	"placeCategoryName": [ "Main Course" ],	Mapped	
Featured image url	"image": "https://cdn.s3waas.gov.in/s354229abfcfa5649e7003b83dd4755294/uploads/2019/07/2019072122.jpg",	Mapped	There will no images stored in NIP
photos	"imageList": { "title": "Rasaj Kadi", "alt": "Rasaj Kadi", "image": "https://cdn.s3waas.gov.in/s354229abfcfa5649e7003b83dd4755294/uploads/2019/07/2019072122.jpg", "thumb_img_url": "https://cdn.s3waas.gov.in/s354229abfcfa5649e7003b83dd4755294/uploads/2019/07/2019072122-150x150.jpg", "full_img_url": "https://cdn.s3waas.gov.in/s354229abfcfa5649e7003b83dd4755294/uploads/2019/07/2019072122.jpg" },	Mapped	Is it same as 'Featured image url'. If yes, it can be removed
Custom category		Unmapped	Is it same as 'category'. If yes, it can be removed

## Objective : 2

### Suggested Facets search



*"Based on a review of the Know India Culinary delights API response received, the following search types are suggested to improve search capabilities:"*

- Simple Text Search
- Faceted Search

**Simple Text Search :** This is similar to 'google search' and we need to define **surface areas of search** like title,state etc

**Faceted Search :** We may offer options in faceted search to make the search more comprehensive.

- placeCategory Name  
"placeCategoryName": [main course,breakfast" ]
- Popularity  
(totalViews, totalLikes, isLiked) - Start Rating (star rating bases on 3 attribute)
- stateName
- Importance  
(local,global,state)

## Objective :3

### Business Use Cases



*Faceted options offered for e.g searching the Culinary delights in MP. Search becomes more narrow with each Facet selection:*

Usecase	Search Attributes
Show all the <b>dishes</b> of <b>madhya Pradesh</b>	Image,video,title,state,city_name
Show Me <b>Main course dishes</b> of <b>Madhya Pradesh</b>	Image,video,title,state,city_name

# Analysis API Responses

Objective : 1



**1.5 Content Type : Knowindia - Helpline**





REQUEST URL = <https://api.s3waas.gov.in/api/v1/getHelpLineList>

#### Request PayLoad

```
{
  "deviceId": "1BC986C3-0B2E-4698-AE31",
  "pageIndex": "1",
  "perPage": "100",
  "stateId": "",
  "districtId": "",
  "language": "en"
}
```

**Total Records : 803**

#### Response

```
{
  "resultFlag": 1,
  "message": "Detail Found",
  "totalRecords": 803,
  "pages": 0,
  "cache": 0,
  "data": [
    {
      "_index": "helpline",
      "_type": "_doc",
      "_id": "wdzERogBvAOITNx4sJzz",
      "_source": {
        "siteid": 177,
        "siteurl": "https://nawada.nic.in",
        "statecode": "BR",
        "title": "Krishi (Farmer Helpline Center)",
        "content_type": "helpline",
        "url":
          "https://nawada.nic.in/district-helpline/krishi-farmer-helpline-center/",
        "id": 27028,
        "helpline_number": "18001801551",
        "languages": [
          "en"
        ]
      }
    }
  ],
}
```

# API Response Know India - Helpline - Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
id		Unmapped (To be filled by pipeline)	
title/name	"title": "Krishi (Farmer Helpline Center)",	Mapped	This will be taken into account for free text serach
description		Unmapped	
url	"siteurl": "https://nawada.nic.in","url": "https://nawada.nic.in/district-helpline/krishi-farmer-helpline-center",	Mapped	we shall fill based on API url??
lineage		Unmapped	Kindly share mapping tables for lineage
Sector		Unmapped	
Keywords	Unmapped (To be filled by pipeline)		To be added by Pipeline . What is difference between tags and keywords
tags	Unmapped (To be filled by pipeline)		To be added by Pipeline . keywords need to be discussed
people group	Unmapped		What is to be filled ?
language	"languages": [ "en", "kn" ]	Mapped	default is english
source	Unmapped (To be filled by pipeline)		What is to be filled ?
source record id	,		
source language			

# API Response Know India - Helpline : Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query/Remarks
source published date	created_at	Mapped	
workflow state		Unmapped (To be filled by pipeline)	This will tell the pipeline processing status like ACQUIRED, TRANSFORMED, TAGGED
updated by -		Unmapped (To be filled by pipeline)	This will be the user id of the pipeline
created at		Unmapped (To be filled by pipeline)	This will be the date when the data is fetched in NIP
updated at		Unmapped (To be filled by pipeline)	This will be the date when the data is updated in NIP
archival date		Unmapped (To be filled by pipeline)	This will be the date when the data is archived in NIP
size		Unmapped (To be filled by pipeline)	This will be the size of the data received of one record
lastHitStatusCode		Unmapped (To be filled by pipeline)	This will be the HTTP status code when pipeline hits the source url e.g 200,404 etc
md5 hash		Unmapped (To be filled by pipeline)	This will be the md5hash of the data received of one record
itemBody		Unmapped (To be filled by pipeline)	This will be the API response body
Facet Search Map		Unmapped	To be added by pipeline based on the faceted search options for the data Ps: this did not exist earlier Eg:stateName:Haryana,category:Historic

## API Response Know India - Helpline : Specific Fields..Mapping

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
Helpline Number	"helpline_number": "18001801551",	Mapped	
Custom category		Unmapped	Is it same as 'category'. If yes, it can be removed

# Queries



*Below are some finding query on attributes:*

- ❖ We need to use State\_code as facilitate search but how can someone get statecode because helpline number are state specific?

## Objective : 2

### Suggested Facets search



*"Based on a review of the Know India Helpline API response received, the following search types are suggested to improve search capabilities:"*

- Simple Text Search
- Faceted Search

**Simple Text Search :** In simple text google search search we can give option as **"State" and "City"** attribute to search helpline numbers base on these two attributes. Ex: Farmer helpline number of Rajasthan.

**Faceted Search :** We may offer options in faceted search to make the search more comprehensive.

- stateName
  - Statecode
  - Category
  - Contenttype
- "content\_type": "helpline"

## Objective :3 Business Use Cases



*Faceted options offered for e.g searching the specific helpline numbers in state  
Search becomes more narrow with each Facet selection*

Usecase	Search Attributes
Phone <b>Number</b> of <b>women helpline MP</b>	helpline_number, title ,state Name
<b>Voter helpline</b> number to bihar	helpline_number, title ,state Name

# Analysis API Responses

Objective : 1



**1.6 Content Type : Knowindia - Produce**





# REQUEST URL = <https://api.s3waas.gov.in/api/v1/getIndiaProduceList>

## Request Payload

```
{
  "deviceID": "10E6B617-914F-4380-9C42-7393D0EB058D",
  "categoryId": "",
  "searchText": "",
  "stateId": "",
  "districtId": "",
  "placeTypeId": "",
  "pageIndex": "1",
  "recordPerPage": "10",
  "most_liked": "0",
  "most_viewed": "0",
  "popular": "0",
  "language": "en"
}
```

Total Records : 174

```
Response
{
  "totalRec": 1,
  "message": "Data Found",
  "statusCode": 174,
  "pageNo": 1,
  "total": 1,
  "data": [
    {
      "id": "10E6B617-914F-4380-9C42-7393D0EB058D",
      "category": "Vegetables",
      "searchText": "Tomato",
      "stateId": "10",
      "districtId": "10",
      "placeTypeId": "1",
      "pageIndex": "1",
      "recordPerPage": "10",
      "most_liked": "0",
      "most_viewed": "0",
      "popular": "0",
      "language": "en"
    }
  ],
  "pageNo": 1,
  "total": 1,
  "statusCode": 174,
  "message": "Data Found",
  "totalRec": 1
}
```

# API Response Know India - Produce - Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
id		Unmapped (To be filled by pipeline)	
title/name	"title": "Resham Kendra, Narmadapuram"	Mapped	This will be taken into account for free text serach
description		Unmapped	
url	"siteurl": "https://narmadapuram.nic.in" or "url": "https://narmadapuram.nic.in/en/district-produce/resham-kendra-h oshangabad/"	Mapped	we shall fill based on API uri??
lineage		Unmapped	Kindly share mapping tables for lineage
Sector		Unmapped	
Keywords	Unmapped (To be filled by pipeline)		To be added by Pipeline . What is difference between tags and keywords
tags	Unmapped (To be filled by pipeline)		To be added by Pipeline . keywords need to be discussed
people group		Unmapped	What is to be filled ?
language	"languages": [ "en", "kn" ]	Mapped	default is english
source	Unmapped (To be filled by pipeline)		What is to be filled ?
source record id	,		
source language			

# API Response Know India - Produce : Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query/Remarks
source published date		Unmapped	
workflow state		Unmapped (To be filled by pipeline)	This will tell the pipeline processing status like ACQUIRED, TRANSFORMED, TAGGED
updated by -		Unmapped (To be filled by pipeline)	This will be the user id of the pipeline
created at		Unmapped (To be filled by pipeline)	This will be the date when the data is fetched in NIP
updated at		Unmapped (To be filled by pipeline)	This will be the date when the data is updated in NIP
archival date		Unmapped (To be filled by pipeline)	This will be the date when the data is archived in NIP
size		Unmapped (To be filled by pipeline)	This will be the size of the data received of one record
lastHitStatusCode		Unmapped (To be filled by pipeline)	This will be the HTTP status code when pipeline hits the source url e.g 200,404 etc
md5 hash		Unmapped (To be filled by pipeline)	This will be the md5hash of the data received of one record
itemBody		Unmapped (To be filled by pipeline)	This will be the API response body
Facet Search Map		Unmapped	To be added by pipeline based on the faceted search options for the data Ps: this did not exist earlier Eg:stateName:Haryana,category:Historic

## API Response Know India - Produce : Specific Fields..Mapping

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
category	<pre>"category": [ {   "id": 182,   "category": "Handicraft" } ]</pre>	Mapped	
Subcategory	<pre>"subCategory": [ {   "id": 161,   "category": "Horticulture" } ]</pre>	Mapped	
Featured image url	<pre>"image": "https://cdn.s3waas.gov.in/s3c8ffe9a587b126f152ed3d89a146b445/uploads/2019/07/2019070450-1024x767.jpg"</pre>	Mapped	There will no images stored in NIP
photos	<pre>"imageList": {   "title": "Resham.",   "alt": "Resham",   "image":     "https://cdn.s3waas.gov.in/s3c8ffe9a587b126f152ed3d89a146b445/uploads/2019/07/2019070450-1024x767.jpg",   "thumb_img_url":     "https://cdn.s3waas.gov.in/s3c8ffe9a587b126f152ed3d89a146b445/uploads/2019/07/2019070450-150x150.jpg",   "full_img_url":     "https://cdn.s3waas.gov.in/s3c8ffe9a587b126f152ed3d89a146b445/uploads/2019/07/2019070450.jpg" }</pre>	Mapped	Is it same as 'Featured image url'. If yes, it can be removed
Custom category		Unmapped	Is it same as 'category'. If yes, it can be removed

# Queries



*Below are some finding query on attributes:*

- ❖ Is **category** is also known as **placeCategoryName**?
- ❖ There is another field as **gallery\_images** shall we use that?
- ❖ what is **isLiked** field?

## Objective : 2

### Suggested Facets search



*"Based on a review of the Know India Produce API response received, the following search types are suggested to improve search capabilities:"*

- Simple Text Search
- Faceted Search

**Simple Text Search :** In simple text google search search we can give option as **"State" and "City" etc** attribute to search produce base on attributes. Ex: Popular Crop in MP.

**Faceted Search :** We may offer options in faceted search to make the search more comprehensive.

- Popularity  
(totalViews, totalLikes, isLiked) - Start Rating (star rating bases on 3 attribute)
- stateName
- Category  
"category": [ { "id": 158, "category": "Natural" } ],
- subcategory  
"subCategory": [ { "id": 157, "category": "Crops" } ],

## Objective :3

### Business Use Cases



*Faceted options offered for e.g searching the Produce crop in MP. Search becomes more narrow with each Facet selection*

Usecase	Search Attributes
Show all the <b>produce</b> of <b>madhya Pradesh</b>	Image,video,title,state,city_name
Show Me <b>famous produce Crops</b> of <b>Madhya Pradesh</b>	Image,video,title,state,city_name

# Analysis API Responses

Objective : 1



**1.7 Content Type : Knowindia - Public utilities**

**(School)**





REQUEST URL = <https://api.s3waas.gov.in/api/v1/getSchoolList>

### Request PayLoad

```
{
  "deviceId": "1BC986C3-0B2E-4698-AE31",
  "pageIndex": "1",
  "perPage": "10",
  "categoryId": "",
  "stateId": "",
  "districtId": "",
  "language": "en",
  "distance": 0,
  "device_latitude": "",
  "device_longitude": ""
}
```

**Total Records : 10000**

### Response

```
{
  "resultFlag": 1,
  "message": "Detail Found",
  "totalRecords": 10000,
  "pages": 0,
  "cache": 1,
  "data": [
    {
      "_index": "publicutility",
      "_type": "_doc",
      "_id": "Jd3tZogBvAOITNx4bYGk",
      "_source": {
        "siteid": 127,
        "siteurl": "https://eastgodavari.ap.gov.in",
        "statecode": "AP",
        "title": "",
        "content_type": "public-utility",
        "url": "https://eastgodavari.ap.gov.in/public-utility/192343",
        "id": 192343,
        "created_at": "2017-08-08T10:17:57",
        "updated_at": "2017-08-08T10:17:57",
        "img_title": "",
        "thumb_img_url": "",
        "full_img_url": "",
        "latitude": "",
        "longitude": "",
        "email": "",
        "phone": "",
        "website_link": "",
        "pin_code": "",
        "address": "MPPS (NO.3) PONNAMANDA",
        "category": [
          "Schools"
        ],
        "languages": [
          "en"
        ]
      }
    }
  ]
}
```

# API Response Know India - Public Utilities (School) - Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
id		Unmapped (To be filled by pipeline)	
title/name	"title": ""	Mapped	This will be taken into account for free text search
description		Unmapped	
url	"siteurl": "https://eastgodavari.ap.gov.in" "url": "https://eastgodavari.ap.gov.in/public-utility/192343",	Mapped	we shall fill based on API uri??
lineage		Unmapped	Kindly share mapping tables for lineage
Sector		Unmapped	
Keywords	Unmapped (To be filled by pipeline)		To be added by Pipeline . What is difference between tags and keywords
tags	Unmapped (To be filled by pipeline)		To be added by Pipeline . keywords need to be discussed
people group	Unmapped		What is to be filled ?
language	"languages": [ "en", "kn" ]	Mapped	default is english
source	Unmapped (To be filled by pipeline)		What is to be filled ?
source record id	,		
source language			

## API Response Know India - Public Utilities (School) : Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query/Remarks
source published date		Unmapped	
workflow state		Unmapped (To be filled by pipeline)	This will tell the pipeline processing status like ACQUIRED, TRANSFORMED, TAGGED
updated by -		Unmapped (To be filled by pipeline)	This will be the user id of the pipeline
created at		Unmapped (To be filled by pipeline)	This will be the date when the data is fetched in NIP
updated at		Unmapped (To be filled by pipeline)	This will be the date when the data is updated in NIP
archival date		Unmapped (To be filled by pipeline)	This will be the date when the data is archived in NIP
size		Unmapped (To be filled by pipeline)	This will be the size of the data received of one record
lastHitStatusCode		Unmapped (To be filled by pipeline)	This will be the HTTP status code when pipeline hits the source url e.g 200,404 etc
md5 hash		Unmapped (To be filled by pipeline)	This will be the md5hash of the data received of one record
itemBody		Unmapped (To be filled by pipeline)	This will be the API response body
Facet Search Map		Unmapped	To be added by pipeline based on the faceted search options for the data Ps: this did not exist earlier Eg:stateName:Haryana,category:Historic

## API Response Know India - Public Utilities (School) : Specific Fields..Mapping

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
category	"category":[ "Schools" ]	Mapped	
Address	"address":"MPPS (NO.3) PONNAMANDA"	Mapped	address line 1, address line 2, city, state, district Pincode not available
Phone	"phone":"9470401144"	Mapped	In some cases phone no. field empty
Latitude		Unmapped	
Longitude		Unmapped	
Custom category		Unmapped	Is it same as 'category'. If yes, it can be removed

# Queries



*Below are some finding query on attributes:*

- ❖ Pin code parameter is empty in some cases. So , do we require this in the response body?
- ❖ Is "content\_type": "public-utility" , can be considered as keyword?
- ❖ State Name - only State codes are present?

## Objective : 2

### Suggested Facets search



*“Based on a review of the Public Utilities (School) API response received, the following search types are suggested to improve search capabilities:”*

- Simple Text Search
- Faceted Search

**Simple Text Search :** In simple text google search search we can give option as **“State” and “City” etc** attribute to search produce base on attributes.

**Faceted Search :** We may offer options in faceted search to make the search more comprehensive.

- Popularity  
(totalViews, totalLikes, isLiked) - Start Rating (star rating bases on 3 attribute)
- stateName
- content\_type (public-utility)  
"Hospitals , Schools , Banks ,School / Colleges , Municipalities , Postal ,Electricity"
- geoLocation  
(longitude, latitude) - Distance

## Objective :3

### Business Use Cases



*Faceted options offered for e.g searching the colleges in MP. Search becomes more narrow with each Facet selection:*

Usecase	Search Attributes
Show all the <b>school</b> of <b>madhya Pradesh</b>	Image,video,title,state,city_name, Geolocation
Show Me <b>famous school</b> of <b>Madhya Pradesh</b>	Image,video,title,state,city_name, Geolocation
Show <b>popular schools</b> in <b>MP</b> near by me	Image,video,title,state,city_name,geoLocation

# Analysis API Responses

Objective : 1

**1.8 Content Type : District - Who is Who**





REQUEST URL = <https://api.s3waas.gov.in/api/v1/getWhosWhoList>

### Request PayLoad

```
{
  "deviceId": "1BC986C3-0B2E-4698-AE31-5EA8121E0713",
  "pageIndex": 1,
  "perPage": 10,
  "name": "",
  "stateId": "",
  "districtId": "",
  "language": "en"
}
```

**Total Records : 10000**

### Response

```
{
  "resultFlag": 1,
  "message": "Detail Found",
  "totalRecords": 10000,
  "pages": 1000,
  "cache": 1,
  "data": [
    {
      "_index": "whoswho",
      "_type": "doc",
      "_id": "TN4teogBvAOITNx4KXV1",
      "_source": {
        "siteid": 140,
        "siteurl": "https://hamirpur.nic.in",
        "statecode": "UP",
        "stateName": "Uttar Pradesh",
        "stateID": 31,
        "cityName": "Hamirpur",
        "cityID": 140,
        "title": "Shri. Sumit Vyas",
        "designation": "Executive Engineer",
        "content_type": "whoswho",
        "url": "https://hamirpur.nic.in/whoswho/shri-sumit-vyas/",
        "id": 28809,
        "created_at": "2018-09-06T11:46:56",
        "updated_at": "2018-09-05T13:14:39",
        "email_address": "sumit09210@gov.in",
        "address": "Hamirpur",
        "phone_number": "9415909210",
        "fax_number": "",
        "room_number": "",
        "profile_url": "",
        "img_title": "",
        "thumb_img_url": "",
        "full_img_url": "",
        "category": [
          "9. Electricity Department"
        ],
        "importance": null,
        "views": 0,
        "isLiked": null,
        "languages": [
          "en",
          "hi"
        ]
      }
    }
  ]
}
```

# API Response District (Who is Who) - Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
id		Unmapped (To be filled by pipeline)	
title/name	"title": "Shri. Sumit Vyas"	Mapped	This will be taken into account for free text search
description		Unmapped	
url	"siteurl": "https://hamirpur.nic.in"	Mapped	we shall fill based on API url??
lineage		Unmapped	Kindly share mapping tables for lineage
Sector		Unmapped	
Keywords	Unmapped (To be filled by pipeline)		To be added by Pipeline . What is difference between tags and keywords
tags	Unmapped (To be filled by pipeline)		To be added by Pipeline . keywords need to be discussed
people group		Unmapped	What is to be filled ?
language	"languages": [ "en", "kn" ]	Mapped	default is english
source	Unmapped (To be filled by pipeline)		What is to be filled ?
source record id	,"_id": "TN4teogBvAOITNx4KXV1"	Mapped	Assume this is given in API response
source language			

## API Response District (Who is Who) : Common Fields..Mapping..1/2

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query/Remarks
source published date	created_at	Mapped	
workflow state		Unmapped (To be filled by pipeline)	This will tell the pipeline processing status like ACQUIRED, TRANSFORMED, TAGGED
updated by -		Unmapped (To be filled by pipeline)	This will be the user id of the pipeline
created at		Unmapped (To be filled by pipeline)	This will be the date when the data is fetched in NIP
updated at		Unmapped (To be filled by pipeline)	This will be the date when the data is updated in NIP
archival date		Unmapped (To be filled by pipeline)	This will be the date when the data is archived in NIP
size		Unmapped (To be filled by pipeline)	This will be the size of the data received of one record
lastHitStatusCode		Unmapped (To be filled by pipeline)	This will be the HTTP status code when pipeline hits the source url e.g 200,404 etc
md5 hash		Unmapped (To be filled by pipeline)	This will be the md5hash of the data received of one record
itemBody		Unmapped (To be filled by pipeline)	This will be the API response body
Facet Search Map		Unmapped	To be added by pipeline based on the faceted search options for the data Ps: this did not exist earlier Eg:stateName:Haryana,category:Historic

## API Response District (Who is Who) : Specific Fields..Mapping

Common Attribute (Shared by NIC Team)	Closest field from API response	Remarks	Query
Designation	"designation": "Executive Engineer"	Mapped	
email	"email_address": "sumit09210@gov.in"	Mapped	
phone	"phone_number": "9415909210"	Mapped	I
Mobile		Unmapped	
Address	"address": "Hamirpur"	Mapped	
Address Line 1 & 2		Unmapped	
CityName	"cityName": "Hamirpur"	Mapped	is it cityname or cityid ?
State	"stateName": "Uttar Pradesh"	Mapped	
District & Pincode		Unmapped	
category: (Administration, Revenue Department etc)	"category": [ "9. Electricity Department" ]	Mapped	Is it same as 'category'. If yes, it can be removed

## Objective : 2

### Suggested Search Facets



*"Based on a review of the District Who is Who API response received, the following search types are suggested to improve search capabilities:"*

- Simple Text Search
- Faceted Search

**Simple Text Search :** This is similar to 'google search' and we need to define **surface areas of search** like title,state etc

**Faceted Search :** We may offer options in faceted search to make the search more comprehensive.

- designation  
(BDO,District Supply Officer,MP)
- city  
(do we keep at district level) ?
- state  
(Bihar,Gujarat,Uttar Pradesh)
- district  
(Muzzafarpur,Rajkot)
- category
- (Block Office, Collectoate,Public Representative)

## Objective :3

### Business Use Cases



*Faceted options offered for e.g searching the officer lists in Gujarat  
Search becomes more narrow with each Facet selection:*

Usecase	Search Attributes
SHow officers of <b>all designations in Gujarat</b>	title,category,designation,state,district,email,address,phone
SHow officers of <b>all designations in Rajkot district of Gujarat</b>	title,category,designation,state,district,email,address,phone

# Going Forward-S3WAAS summary

## ***General Faceted Search Items***

- State
- District
- City
- Category
- SubCategory
- Geolocation (places near me ??)
- Popularity (based on  
TotalViews,totalLikes,isLiked ??)
- Lineage ?? (this is totally missing)
- Sector ?? (this is totally missing)

**Faceted Search Options will be put in Canonical form for each of the API**

## **Data cleansing**

- Some sites use state id..while some state name
- cityName might not be present for all
- category/subcategory not filled for all
- Geolocation(lat/long ) missing

## ***To show ON UI***

- Image,video url
- Title,
- District,city,state,description
- created\_at

# Going Forward-Faceted Search Prototype



- ❖ *Prototype faceted search functionality on one of the API (who's who) in elastic DB*
- ❖ *Develop a UI depicting faceted search option*
- ❖ *Integrate UI with backend*
- ❖ *Load test the integrated UI and share results*



# Going Forward-Change in Pipelines



Pipeline	Analysis	Remarks
Data Acquisition	It will be made API specific	API by default returns 10 records. Pipeline need to be changed to <b>iteratively</b> fetch all data of all districts
Data Transformation	Common for all API for canonical form. API specific for specific formats.	Needs changes for <b>new canonical form and specific formats</b>
Data Deduplication	No change	
Data Tagging	API specific tags	CMS needs to be explored
Data Storage	will change as per sink	
Data Search	will change as per source	Currently being prototyped with mock data
Data Views	Will change as per UI needs	Currently a faceted view is being prototyped
Localization	Surface translation	



Thank You

