

GEO in JISF (Part -1)

About

JISF is a project undertaken by a2i to centralize, optimize, and manage government e-Services (Digital Services) in a better way. This project aims to centralize the e- Services of Judiciary department and units by providing them a set of standards and guidelines. Thus this project is establishing a digital framework for all e-Governance in Bangladesh. This project centralizes commonly used data and it's use. This project also facilitates optimization of data and functional use by establishing an enterprise service bus (ESB) for government.

In this project a big set of information are used which are stored and managed in different data domains. Therefore, to get integrated with JISF project, it is required to understand the data and the definition of each standard data. From this point of understanding this “Data Definition Standard” documentation has been prepared.

This document will mention and explain all the data that are managed through the JISF Ecosystem.

How to use

Each data has different set of information which together defines a data properly. The information is explained against each standard data mentioned in this document:

General Information	
Title	Description
Reference No	A reference number assigned by the committee
Entity Name	The name of the data domain or category.
Attribute Name	The name of the data item, aggregation or domain
Data Source	The original source of specified data, therefore, from where this data is originated.
Description	The description for the item.

Core Definition	
Title	Description
Data Type	The data might be numeric, alphabetic etc. The type of respective data is mentioned in this attribute
Data Limit	It is generally the length or maximum possible size of the data.
Default Value	Sometimes there remains some default value which is set by the system if the application or user do not provide any data for that specific field. This is known as Default Value.
Attribute Type	
Nullable	Null means “Defined Empty Field”. If a data has the provision to be empty, then then the data will be called as “Nullable”
Unique	Sometimes a data can be unique and cannot be stored duplicate, those Unique data types are mentioned by this section.

Data Notes	
Title	Description
Multiplicity Notes	Additional information on whether systems or collections should allow for multiple values per person for this item. In addition, for each Aggregation, the following is provided:
Usage Note	The usage type of a data is described in this section.
Security Note	How a data is kept secured, or whether keeping a data secure is necessary or not is described in this section.
History Note	There might have some additional historical information regarding to any data, which will be explained in this section.
Collection Notes	Additional information that will be useful to designers of data collections.

Geological Data

Geological data sets are a very important and mandatory part of JISF. As any digital service of government is involved with the geological information of citizens, keeping a detailed list of geological data in JISF ecosystem is mandatory.

The geological data include country, division, district, Upazila, union, city corporation, municipality, thana, ward, post office, cantonment etc. type of data. All these data are explained below:

Geo Data, Country

General Information	
Reference No	
Entity Name	geo_countries
Attribute Name	id
Data Sources	
Description	A unique numeric identity for each Country, generated by system.
Core Definitions	
Data Type	integer
Data Limit	11
Default Value	
Attribute Type	
Nullable	No
Unique	Yes
Function	Auto Increment, Numeric
Item Level Validation	
Algorithms	
Data Notes	
Multiplicity Notes	System will generate this value uniquely, and no duplicate will be generated.

Usage Note	This data will be hidden from application viewers.
Security Note	This ID is a unique identifier for a data-set which is confidential and used only internally in the application.
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_countries
Attribute Name	name
Data Sources	
Description	Name of countries that will be used in the system.
Core Definitions	
Data Type	varchar
Data Limit	255
Default Value	
Attribute Type	
Nullable	Yes
Unique	Yes
Function	
Item Level Validation	
Algorithms	N/A

Data Notes	
Multiplicity Notes	This data will be unique.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_countries
Attribute Name	country_code
Data Sources	
Description	A unique code for each Country, inserted manually by user.
Core Definitions	
Data Type	varchar
Data Limit	255
Default Value	
Attribute Type	
Nullable	Yes
Unique	Yes
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	
Multiplicity Notes	This data will be unique.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	

Collection Notes	
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Geo Data, Division

General Information	
Reference No	
Entity Name	geo_divisions
Attribute Name	id
Data Sources	
Description	A unique numeric identity for each division, generated by system.
Core Definitions	
Data Type	integer
Data Limit	8
Default Value	
Attribute Type	
Nullable	No
Unique	Yes
Function	Auto Increment, Numeric
Item Level Validation	
Algorithms	

Data Notes	
Multiplicity Notes	System will generate this value uniquely, and no duplicate will be generated.
Usage Note	This data will be hidden from application viewers.
Security Note	This ID is a unique identifier for a data-set which is confidential and used only internally in the application.
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_divisions
Attribute Name	division_name_eng
Data Sources	
Description	Name of division in English Text
Core Definitions	
Data Type	varchar
Data Limit	255
Default Value	
Attribute Type	
Nullable	No
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	
Multiplicity Notes	This data will not be unique.
Usage Note	This data will be viewable inside the application openly.
Security Note	

History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_divisions
Attribute Name	division_name_bng
Data Sources	
Description	Name of division in Unicode Bengali Text
Core Definitions	
Data Type	varchar
Data Limit	255
Default Value	
Attribute Type	
Nullable	No
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	
Multiplicity Notes	This data will not be unique.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_divisions
Attribute Name	bbs_code
Data Sources	

Description	A unique code of geological location provided by Bangladesh Bureau of Statistics.
Core Definitions	
Data Type	char
Data Limit	4
Default Value	
Attribute Type	
Nullable	Yes
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	
Multiplicity Notes	BBS Code will be unique for each division.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

Geo Data, District

General Information	
Reference No	
Entity Name	geo_districts
Attribute Name	id
Data Sources	
Description	A unique numeric identity for each district, generated by system.
Core Definitions	
Data Type	integer
Data Limit	8
Default Value	

Attribute Type	
Nullable	No
Unique	Yes
Function	Auto Increment, Numeric
Item Level Validation	
Algorithms	
Data Notes	
Multiplicity Notes	System will generate this value uniquely, and no duplicate will be generated.
Usage Note	This data will be hidden from application viewers.
Security Note	This ID is a unique identifier for a data-set which is confidential and used only internally in the application.
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_districts
Attribute Name	geo_division_id
Data Sources	
Description	The system generated unique ID of division which is associated with district.
Core Definitions	
Data Type	integer
Data Limit	8
Default Value	
Attribute Type	Foreign Key
Nullable	No
Unique	
Function	
Item Level Validation	
Algorithms	
Data Notes	

Multiplicity Notes	
Usage Note	This data will be hidden from application viewers.
Security Note	This ID is a unique identifier for a data-set which is confidential and used only internally in the application.
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_districts
Attribute Name	district_name_eng
Data Sources	
Description	Name of district in English Text
Core Definitions	
Data Type	varchar
Data Limit	255
Default Value	
Nullable	No
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	

Multiplicity Notes	This data will not be unique.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_districts
Attribute Name	district_name_bng
Data Sources	
Description	Name of district in Unicode Bengali Text
Core Definitions	
Data Type	varchar
Data Limit	255
Default Value	
Nullable	No
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	
Multiplicity Notes	This data will not be unique.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_districts
Attribute Name	bbs_code
Data Sources	
Description	A unique code of geological location provided by Bangladesh Bureau of Statistics.
Core Definitions	
Data Type	char
Data Limit	4
Default Value	
Nullable	Yes
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	
Multiplicity Notes	BBS Code will be unique for each district.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

Geo Data, City Corporation

General Information	
Reference No	
Entity Name	geo_city_corporations
Attribute Name	id
Data Sources	
Description	A unique numeric identity for each City Corporation, generated by system.

Core Definitions	
Data Type	integer
Data Limit	8
Default Value	
Attribute Type	
Nullable	No
Unique	Yes
Function	Auto Increment, Numeric
Item Level Validation	
Algorithms	
Data Notes	
Multiplicity Notes	System will generate this value uniquely, and no duplicate will be generated.
Usage Note	This data will be hidden from application viewers.
Security Note	This ID is a unique identifier for a data-set which is confidential and used only internally in the application.
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_citycorporations
Attribute Name	geo_division_id
Data Sources	
Description	The system generated unique ID of division which is associated with city corporation.
Core Definitions	
Data Type	integer
Data Limit	8
Default Value	
Attribute Type	Foreign Key
Nullable	No
Unique	

Function	
Item Level Validation	
Algorithms	
Data Notes	
Multiplicity Notes	
Usage Note	This data will be hidden from application viewers.
Security Note	This ID is a unique identifier for a data-set which is confidential and used only internally in the application.
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_citycorporations
Attribute Name	geo_district_id
Data Sources	
Description	The system generated unique ID of district which is associated with city corporation.
Core Definitions	
Data Type	integer
Data Limit	8
Default Value	
Attribute Type	Foreign Key
Nullable	No
Unique	
Function	
Item Level Validation	
Algorithms	
Data Notes	
Multiplicity Notes	
Usage Note	This data will be hidden from application viewers.
Security Note	This ID is a unique identifier for a data-set which is confidential and used only internally in the application.

History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_city_corporations
Attribute Name	city_corporation_name_eng
Data Sources	
Description	Name of City Corporation in English Text.
Core Definitions	
Data Type	varchar
Data Limit	255
Default Value	
Nullable	No
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	
Multiplicity Notes	This data will not be unique.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_city_corporations

Attribute Name	city_corporations_name_bng
Data Sources	
Description	Name of City Corporation in Unicode Bengali Text.
Core Definitions	
Data Type	varchar
Data Limit	255
Default Value	
Nullable	No
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	
Multiplicity Notes	This data will not be unique.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

General Information	
Reference No	

Entity Name	geo_city_corporations
Attribute Name	bbs_code
Data Sources	
Description	A unique code of geological location provided by Bangladesh Bureau of Statistics.
Core Definitions	
Data Type	char
Data Limit	4
Default Value	
Nullable	Yes
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	
Multiplicity Notes	BBS Code will be unique for each district.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

Geo Data, City Corporation Wards

General Information	
Reference No	
Entity Name	geo_city_corporation_wards
Attribute Name	id
Data Sources	
Description	A unique numeric identity for each City Corporation Ward, generated by system.
Core Definitions	
Data Type	integer

Data Limit	8
Default Value	
Attribute Type	
Nullable	No
Unique	Yes
Function	Auto Increment, Numeric
Item Level Validation	
Algorithms	
Data Notes	
Multiplicity Notes	System will generate this value uniquely, and no duplicate will be generated.
Usage Note	This data will be hidden from application viewers.
Security Note	This ID is a unique identifier for a data-set which is confidential and used only internally in the application.
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_citycorporation_wards
Attribute Name	geo_division_id
Data Sources	
Description	The system generated unique ID of division which is associated with city corporation ward.
Core Definitions	
Data Type	integer
Data Limit	8
Default Value	
Attribute Type	Foreign Key
Nullable	No
Unique	
Function	
Item Level Validation	

Algorithms	
Data Notes	
Multiplicity Notes	
Usage Note	This data will be hidden from application viewers.
Security Note	This ID is a unique identifier for a data-set which is confidential and used only internally in the application.
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_citycorporation_wards
Attribute Name	geo_district_id
Data Sources	
Description	The system generated unique ID of district which is associated with city corporation ward.
Core Definitions	
Data Type	integer
Data Limit	8
Default Value	
Attribute Type	Foreign Key
Nullable	No
Unique	
Function	

Item Level Validation	
Algorithms	
Data Notes	
Multiplicity Notes	
Usage Note	This data will be hidden from application viewers.
Security Note	This ID is a unique identifier for a data-set which is confidential and used only internally in the application.
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_citycorporation_wards
Attribute Name	geo_city_corporation_id
Data Sources	
Description	The system generated unique ID of city corporation which is associated with city corporation ward.
Core Definitions	
Data Type	integer
Data Limit	8
Default Value	
Attribute Type	Foreign Key
Nullable	No
Unique	
Function	
Item Level Validation	
Algorithms	
Data Notes	

Multiplicity Notes	
Usage Note	This data will be hidden from application viewers.
Security Note	This ID is a unique identifier for a data-set which is confidential and used only internally in the application.
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_city_corporation_wards
Attribute Name	ward_name_eng
Data Sources	
Description	Name of Ward in English Text.
Core Definitions	
Data Type	varchar
Data Limit	255
Default Value	
Nullable	No
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	

Multiplicity Notes	This data will not be unique.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_city_corporation_wards
Attribute Name	ward_name_bng
Data Sources	
Description	Name of Ward in Unicode Bengali Text.
Core Definitions	
Data Type	varchar
Data Limit	255
Default Value	
Nullable	No
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	
Multiplicity Notes	This data will not be unique.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

General Information	
Reference No	
Entity Name	geo_city_corporation_wards
Attribute Name	bbs_code
Data Sources	
Description	A unique code of geological location provided by Bangladesh Bureau of Statistics.
Core Definitions	
Data Type	char
Data Limit	4
Default Value	
Nullable	Yes
Unique	No
Function	
Item Level Validation	
Algorithms	N/A
Data Notes	
Multiplicity Notes	BBS Code will be unique for each district.
Usage Note	This data will be viewable inside the application openly.
Security Note	
History Notes	
Collection Notes	

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