**Functional Requirements Document**

**Open Data Platform**

**(Website only)**

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| **Version** | **Description of Change** | **Author** | **Date** |
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# INTRODUCTION

Open Data Platform is envisioned to be a platform for creating and hosting Open Data Portals. The portal is intended to be used by Governments and their agencies to publish certain data collected by them to the outside world. Consumers can consume and manipulate the data freely without any restrictions such a patent or copyright.

## Purpose

Open Data Platform solution has been architected to have four components.

* Web Portal
* Data Management System/Content Management System (DMS/CMS)
* User Relation Management (URM)
* Communities

Purpose of this document is to document the Functional Requirements for Web Portal and User Relation Management (URM)

## Background

Open Data movement advocates availability of certain data to everyone for consumption and manipulation without any restrictions such as patents and copyright. Governments and agencies of some countries have already adopted this and built their Open Data Portals.

Existing Open Data Portals have been built on commercial platforms using commercially licensed software. The intension of this project is to build Open Data Platform consuming Open Source software.

Drupal 6 has been identified for building this platform.

## Scope

Scope of this document involves documenting the following.

* User roles and privileges of each role
* Functionality for Website and URM

## Definitions, Acronyms and Abbreviations

|  |  |
| --- | --- |
| DMS | Dataset Management System |
| CMS | Content Management System |
| URM | User Relation Management |
| ODP | Open Data Platform |

## References

Following have been referred to for creation of this document.

* Scope document provided by stake holders
* Data.gov, data.gov.uk and india.gov.in

## Assumptions and Constraints

### Assumptions

Following assumptions have been made while documenting the functional requirements.

* DMS/CMS and Communities components will be developed separately and will be integrated with Website and URM components.
* Data for datasets, documents and apps will be imported into Website by DMS/CMS.

### Constraints

ODP should be developed under the following constraints.

* Drupal 6 should be used as a backbone
* All the components and libraries to be used should be open source and freely distributable
* ODP should comply to the following standards
  + WCAG 2.0 Level A and Majority of AA
  + ~~Guidelines of Indian Government Websites (GIGW)~~
  + Section 508
  + Open Web Application Security Project (OSWAP)

## Document Overview

This document captures the functional and non functional requirements for Open Data Platform. It has following sections.

# METHODOLOGY

TDB

# FUNCTIONAL REQUIREMENTS

## Context

Feedbacks

Database & files

Users/Roles

Feedbacks

Links

Data Gov

URM

PMO

Agencies

Communities

**DMS**

Admin

**CMS**

Admin

Content

## User Requirements

TBD

## Data Flow Diagrams

TBD: To be updated during design

## Logical Data Model/Data Dictionary

TBD: To be updated during design

## Functional Requirements

## Website

## Home Page

| **Section/ Requirement ID** |  | **Requirement Definition** |
| --- | --- | --- |
| FR1 | | **Top Header Links** |
|  | FR1.1 | Following links should be part of the header   * Social plugins * RSS * Global search |
| FR1.2 | Following links will be available in the header for accessibility options   * Skip to navigation * Skip to main content * High and low contrast & Color themes * Customising font size |
| FR2 | | **Featured Region**  The featured region on the homepage should be divided into two sections   * Rotating panels * Recent Catalogs, Popular Catalogs and Major Events as tabs |
|  | FR 2.1 | **Rotating Panel**   * CMS * Inthe CMS, there should be an option to create/suspend/delete panels to be displayed on the homepage. * Each of the panels should have title, content, description and image upload. * Frontend * The panels should have sliding effect. * It should have buttons for prev, play/stop and next that will enable the user to control the behavior of the panels. * The main content for the panel should be an image and the panel title and description should be added as “alt” attribute for the image. * In the javascript disabled mode, it should only show the panel title and description. |
| FR 2.2 | **Recent Catalogs, Popular Catalogs and Major Events**  These three sections should be displayed as tabs.   * CMS * Admin should be able to define the tabs for this block (max=3 and min=1). * The view section for each tab should be configured by admin.   + Name of each tab   + No. of items to be displayed * The first two tabs (Recent and Popular Catalogs) should have dataset list and admin should be able to define the number of items required in the dataset list. * The third tab (Major Events) could have static content which should be editable by admin or it should be able to aggregrate data from the external RSS link. Link will be defined in admin. * Frontend * Recent and Popular Catalogs tabs should display the items of each type of catalog (Dataset, Apps and Document) in a round robin fashion as a slide show. * Major Events tab should display the text added in CMS or the Aggregated RSS feeds without any animation effect. |
| FR3 | | **Navigation Bar**   * CMS * The admin should be able to define the links and link name for the main navigation. * Frontend * Navigation links which will enable to access the inner pages within the website. * Following links will be a part of the navigation.   + Catalog   + Metrics   + Communities   + Featured Gallery   + Open Data Sites   + What’s New |
| FR4 | | **Blocks on the Home Page**   * CMS: * Admin should be able to configure the number of blocks on home page. * Admin should also be able to configure the number of blocks required per row. * Each of the blocks will have title, image, description and link to the associated page. * Admin should able to customize the visual appearance of the block like the block size, background color and the text color. * Frontend * Blocks added by the admin should be displayed below the navigation bar. |
| FR 5 | | **Footer** |
|  | FR5.1 | Following links should be displayed in the footer   * Help * About us * FAQ * Terms of use * Link to us * Add to favorites * Tell a friend * Contact us * Accessibility Statement |
| FR5.2 | Sitemap should be displayed in the expanded format in the footer |

## Header Links

| **Section/ Requirement ID** |  | **Requirement Definition** |
| --- | --- | --- |
| FR6 | | **Top Header Links Functionality** |
|  | FR6.1 | **Theme Selector**   * CMS * Four themes should be provided for the admin to select from. * All themes should be based on one Drupal theme with the same information architecture. * There should be a provision for adding new theme that has the same information architecture. * There should be a provision to edit/update following components of the theme.   + Header image   + Logo image   + Flag image   + CSS: With changes to fonts and colors * Admin should be able to select a theme from the available pool of themes. * Frontend * The theme selected by the admin should be reflected on the frontend.   Example URL:  http://india.gov.in/theme.php |
| FR6.2 | **Social Plugins**   * CMS   + The admin user should be able to define the source code (Javascript and HTML code) for the AddThis social bookmarking plugin. * Frontend   + The source code added by the admin should be displayed in the footer.   **Notes:** When the website is re-distributed to other countries, they need to create new AddThis account, which will enable them to keep a track on share statistics. |
| FR6.3 | **RSS**   * CMS:   + Admin should define the different content types that will be exposed as RSS feeds. * Frontend: * In frontend, user should be able to access the different RSS feeds marked in admin. * On the RSS feeds page, there will be a list of feeds exposed in admin. The three different feeds   + Latest data sets,   + Latest Apps/Tools   + Latest document.   Example: [**http://timesofindia.indiatimes.com/rss.cms**](http://timesofindia.indiatimes.com/rss.cms) |
| FR6.4 | **Global Search**   * Frontend   + Form to search the contents within the website and generate the search results.   + The search results page should have two panels: small panel - filtering or sorting result list. Big Panel – Displaying the search results.   + Ref Link: http://data.gov.uk/search/apachesolr\_search/energy * CMS   + Provision in CMS to define the position of panels. Filtering panel can be moved to right hand side and vice-versa. Similalry for search results panels as well. |
| FR 6.4.1 | **Small Panel (Filtering/Sorting)**  The small panel will have following options to filter the search results:   * The search result can be **Sorted by**   + Relevancy relevant to search keyword   + Title – alphabetic   + Type Category – alphabetic   + Last Updated – chronological   + Rating – highest to lowest * Filtered by: Filtering the search results with the available available catalog type and the content suggested by users.   + Dataset Catalogs (no of results)   + Document Catalogs (x)   + APP/Tool/Service Catalogs (x)   + Data Requests by users (x) * Filter by Available Resource Formats: The resource formats which are associated with each of the datasets.   + [ZIP (68)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3AZIP)   + [TXT (45)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3ATXT)   + [NetCDF (13)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3AnetCDF)   + [Unverified (8)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3AUnverified)   + [CSV (7)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3ACSV)   + [XLS (7)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3AXLS)   + [HTML (3)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3AHTML)   + [PDF (3)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3APDF)   + [RDF (2)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3ARDF)   + [Csv (2)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3Acsv)   + ZIP/RAR/TAR (x)   + TXT (x)   + CSV (x)   + XLS (x)   + HTML (x)   + PDF (x)   + RDF (x) * Filter by Publisher/Owner Agency/Sub-Agency: Filtering the results based on the different agencys and their sub-agency.   + Agency 1(x)     - Sub agency1(x)     - Sub agency2(x)     - Sub agency3 (x)     - ……     - ……   + Agency 2(x)   + Agency 3(x)   + Agency 4(x)   + …….   + ……. * Filter by States Within the Country: Filtering the results based on the different states of the datasets   + Maharashtra(x)   + Karnataka(x)   + Delhi(x)   + Goa(x) |
| FR6.4.2 | **Big Panel - Displaying search results**   * Based on the keywords and filters selected in the small panel, the big panel will show the search results. * Search results on “xyz” to display the following attributes of the result set: * Title with link to data * Type * Rating * Description * Link to agency/sub-agency * Below the search result list, there should be a paging option to navigate between different search result lists. It will show the list of pages in horizontal format with prev and first before the page list and next and last should be appended after the page list. * After the user navigates on the second page, the first and the previous options will be available. * By default it should display total 10 items per in the search result list. * If the list does not have more than 10 search results, the paging option should not be shown. |
| FR6.5 | **Advance Search - Frontend**   * The link for advance search option will be visible on the search results page. * The advance search should have similarity to [www.data.gov](http://www.data.gov) page. * It should have the ability to search content across the site. * Ref Link: <http://search.usa.gov/search/advanced?affiliate=datagov&enable_highlighting=true&locale=en&m=false&page=-1&query=INdia> * The following options should be there for advance search page.   1. All of these words: It should have the ability to search *all the keywords* mentioned in the textbox in any part of the page – meta data or in title of the page. User can only select any one of the options (drop down box).   2. Exact phrase: It should have the ability to search *exact matching* *keywords* mentioned in the textbox in any part of the page – meta data or in title of the page. User can only select any one of the options (drop down box).   3. Any of these words: It should have the ability to search *any of available keywords* mentioned in the textbox in any part of the page – meta data or in title of the page. User can only select any one of the options (drop down box).   4. None of these words: It should search within the website which does not have the matching keywords. In any part of the page – meta data or in title of the page. User can only select any one of the options (drop down box).   5. File type: Ability to search the keywords in the prescribed file format. This search option will be in a drop down format and it will have following options:      + Adobe PDF      + Microsoft Excel      + Microsoft Powerpoint      + Microsoft Word      + Text |
|  | * 1. Results per page: User should be able to customise results per page based on the options provided in the drop down. It should have the followin options: 10,20,30,40 and 50. * The first 4 advance search options will have a text field to specify the keywords and drop down box with two options - any part of the page and in title of the page . |
| FR6.6 | **Accessibility Options**.   * Frontend * Options to change website formatting based on the different accessibility guidelines. * Font size: Option for increasing, decreasing and setting back to normal mode option. * Contrast Mode: Option to toggle the website in contrast and normal mode. * Links for skip to main navigation and skip to main content. * Option for different colors.   [**http://www.mit.gov.in/**](http://www.mit.gov.in/)  [**http://finmin.nic.in/**](http://finmin.nic.in/) |

## Main Navigation

|  |  |  |
| --- | --- | --- |
| Section/ Requirement ID |  | **Requirement Definition** |
| FR7 | | **Navigation Bar**   * CMS * The admin should be able define the links and link name for the main navigation. * Frontend * Navigation links which will enable to access the inner pages within the website. * Following links will be a part of the navigation.   + Catalog   + Metrics   + Communities   + Featured Gallery   + Open Data Sites * What’s New |

## Catalogs

| **Section/ Requirement ID** | | **Requirement Definition** |
| --- | --- | --- |
| FR8 | | **Catalogs**   * Backend * The data for the catalog page will be sourced from DMS/CMS. * The top rotating panels for catalog pages should be manageable by admin. * Admin should be able to upload the image, title and description for the panels. * Admin should be able to decide which panels (smaller block – filter panels and bigger block – dataset list) should be positioned in the left or right block and vice versa. This functionality should work similarly to positioning of search results page. * Admin should be able to add content to three blocks viz. title, description, image and associated link. * Frontend * There should be three different types of catalogs   + Raw Data   + App/Tools/Service   + Documents Catalog. * All the three different catalog sets should be displayed as submenu under “Data” menu of the main navigation. * Each of the different catalogs page should have rotating panels at the top. They will display content added by the admin in the CMS. * Below the rotating panels, there should be three blocks as added by the admin * The title and image of the block should be linked to associated pages.   Example: http://explore.data.gov/ |
|  | FR8.1 | **Smaller Side/Block**   * The smaller block should have a search box. It should only have keyword search on specific datasets page. * The smaller side block will have links for quick searches. The search filters for this will be as per section……() * Option to define the number of results which we want to display on the larger block. * On selecting any of the filter options (as mentioned in xxx-yyy section), the datasets relevant to the selection would be displayed under the bigger block. |
| FR8.1.1 | **Search Box**  Searching the datasets on a specific keywords. Search results needs to be listed in the larger section of the block. |
| FR8.1.2 | Following options should be provided based for sorting the dataset list:   * Relevancy – relevant to search keyword * Title – alphabetic * Type Category – alphabetic * Last Updated – chronological * Rating – highest to lowest |
| FR8.1.3 | Following options should be provided for filtering the dataset list based on different catalogs   * Dataset Catalogs * Document Catalogs * APP/Tool/Service Catalogs * Data Requests by users |
| FR8.1.4 | Following options should be provided for filtering the dataset liston different available resource formats.ZIP (68)TXT (45)NetCDF (13)[Unverified (8)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3AUnverified)   * + [CSV (7)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3ACSV) * [XLS (7)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3AXLS) * [HTML (3)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3AHTML) * [PDF (3)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3APDF) * [RDF (2)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3ARDF) * [Csv (2)](http://data.gov.uk/search/apachesolr_search/climate?filters=sm_resource_formats%3Acsv) * ZIP/RAR/TAR * TXT * CSV * XLS * HTML * PDF * RDF * Unverified/Unidentified |
| FR 7.1.5 | Filter by Publisher/Owner Agency/Sub-Agency   * Agency1 * Agency2 * Agency3 * ……. |
| FR8.1.6 | Filter by States within the country   * Maharashtra (x) * Delhi(x) * Goa(x) * ……. |
| FR8.1.7 | Filtering the datasets based on cities and local bodies   * New Delhi(x) * Mumbai(x) * Panaji(x) * ……. * ……. |
|  | FR8.2 | **Larger Side/Block**  The following components will provided in the large side of the block (dataset list).   * Dropdown to sort the dataset. * Dataset result. * Pagination. * Suggest dataset link. |
| FR8.2.1 | * Dropdown with below options to sort the dataset * Most Relevant * Most Accessed * Most Rated * Most Commented * Alphabetical * Newest * Oldest * By default Most Relevant option would be selected |
| FR8.2.2 | The bigger side would have list of datasets with following columns:   * + Sl. No.   + Name/Title of the Dataset: Hyperlinked Title of the dataset leading to metadata description page, name of agency/sub-agency contributed, category of dataset and brief description on the dataset   + Popularity: No of views of the dataset   + Rating: Visitor rating in the scale of one to five   + File Formats: Small icons, w.r.t. available file formats and the Alt Tag to show ‘Download’. On clicking it should flash browser control of saving the dataset in the client machine. |
| FR8.2.3 | **Pagination**   * Would display 1 of xxx pages (out of y,yy,yyy records) * Along with pagination format “**<<Previous 1 2 3 4 5 6 7 8 9 10 Next>>**” * Option to display no. of entries on a page to be decided by the visitor using a dropdown menu with options viz. 10, 25, 50 and 100 on top as well as on the bottom of the page. |
| FR8.2.4 | **Metadata Description Page**  Ref Link:<http://explore.data.gov/Foreign-Commerce-and-Aid/U-S-Overseas-Loans-and-Grants-Greenbook-/5gah-bvex>   * On selection of a specific dataset it would display metadata fields with available file formats to download showing file type and file size. * The top portion/block (just below the global navigation) the dataset title and brief description of the dataset would be displayed. * On the left side Share the data set using Facebook, Twitter, Email, Print (only icons of these options) will be given. In this line specially designed icons on Contact Owner, Rate, Discuss and Embed would be displayed. On selecting any of these options the page would be divided into two portions (75% and 25%). |
|  | * In the smaller portion the actions on these icons would be as detailed below (in the line):   + **Contact Owner**: This option would call the Feedback component and would be displayed in the smaller region of the screen. The options would be:     - “Purpose/Reason of contacting the owner. This will be a drop down with following options       * Offensive content       * Copyright violation       * Spam or Junk       * Personal Information       * Other – default     - Subject: This will be the combination of dataset title and the purpose of contact.     - Short Message.     - Email id of the sender     - Verification code/text (for security purpose). Captcha code.   + **Rate**:     - This option would call the Rating Component, which would have option to allow users to rate the metadata in the scale of 1 to 5 (in stars).full or half stars may also be chosen, select/de-select rates can be done.     - The user will rate a dataset on each of the three aspects viz: Quality, Accessibility and Usability.     - Once done from a machine for a given dataset cannot be again rated in next **XX** no. of hours and text inputs/ observations on the dataset/metadata may also be given.     - The overall rating would be displayed wherever Rating is to be shown. |
|  | * + **Discuss**:     - Threaded discussion component would be called on selection of this option.     - The conversations would be around the specific dataset opened. Initially it would display a button showing Add Comments.     - The following fields will be opened as the user clicks on Add new comment: Name, Email, Comments and captcha.     - Then it would continue the discussion by the users as long as they want.   + **Embed**: It would open the Embed component. This is the code that one can use in their website for displaying this dataset and related activities around this dataset. This is to consume this dataset without physically owning the same. It would have option to choose the size of the area (pre-defined as well as custom size) where you want to place this web service. It would have a Done and Preview action buttons. * The next block would give the available file formats to download viz. XML, XLS, XLSX, PDF etc. (for datasets) and DOC, DOSX, PDF (for documents) and Binary file formats, HTML, XHTML, ASPX etc. (for APPs, Tools and Services). The download datasets option would also capture the number of times users have downloaded the datasets.   Following this the allowed metadata elements under different heads would be displayed. Exact meta data is to be defined. |
| FR8.2.5 | **Suggest a dataset**  Ref Link: http://explore.data.gov/nominate  Link would call/open the “Suggest Dataset” component and allow user to give suggestions. The suggested dataset will be listed in the URM Module. The fields required for suggest dataset form would be Name, email and suggest dataset description field. |

## Metrics

| **Section/ Requirement ID** | | **Requirement Definition** |
| --- | --- | --- |
| FR9 | | **Metrics**   * Open source charting tool is to be used to represent the following mentioned metrics/reports and display as charts. * This section would have following Sub-sections for displaying metrics and charts on following classification/sub-classifications. * The metrics page should be equivalent to data.gov metrics page.   Ref Link: http://www.data.gov/metric |
|  | FR9.1 | Ref link: <http://www.data.gov/suggestdataset>  In the URM module, there should be a provision to mark a flag for each suggested feedback. The piechart needs to be  created based on the different flags marked for suggested feedback.  Suggested Datasets/Documents/APPs/Tools/Services   * Already Published (in % terms) * Actionable (%) * Potentially Actionable (%) * Not actionable – Regulatory (%) * Not actionable – Unclear (%) * Not actionable – Other (%) |
|  | FR9.1.1 | **Agency Wise**: It would display a page having columns  “Agency/Sub-Agency/Organization name, Raw DataSets (High  Value), Documents (High Value), APPs/Tools/Services (High  Value), Total (High Value), Date of Last Submission”.   * Along with total datasets, high value datasets would be provided in brackets. * The list can be sorted using any of these table headings. * Proper pagination and option to display number of entries per page would be provided. * Page and no. of entries are also to be shown appropriately * A Summary would be provided with column and row totals   On clicking any of these Agency/Sub-Agency/Organization links it would open another page having Tabs on “Raw DataSet Catalogs, Document Catalogs, APP/Tool/Service Catalogs”. Features given below as **Annex-I - http://www.data.gov/list/agency/20/0/catalog/raw/page/1/count/50**  **Annex-I**   * The page under any of these tabs would list down all available entries (with hyperlinked to metadata description page) as under “**Bigger Side Block**” of 1.3.1 in a tabular format with columns “Name/Title, Rating, Agency/Sub-Agency, Category”. * The brief description of the Catalog entry would be displayed just below the Name/Title of the catalog entry * The list can be sorted using the any of these table headings. * Proper pagination and option to display number of entries per page would be provided. * Page and no. of entries are also to be shown appropriately * Ratings and number of votes would be there in the Ratings column   Ref Link: http://www.data.gov/metric |
|  | FR9.1.2 | **Month Wise**  Ref Link:  http://www.data.gov/metric/federalagency/datasetpublishedpermont   * It would display a page having a metric of information on month wise datasets published. These would be displayed for last one year. * On selection of Year from the dropdown box data of the selected year (month wise) would display with an additional column for total figures and a row for displaying aggregates. * These numbers/figures would be hyperlinked. * On clicking any of these hyperlinks it would open another page having Tabs on “Raw DataSet Catalogs, Document Catalogs, APP/Tool/Service Catalogs”. Features given below as **Annex-I** above (2.a.i). |
|  | FR9.1.3 | **Category Wise**  Ref link:  http://www.data.gov/metric/federalagency/datasetbycategory   * It would display a page having a separate charts on different catalogs (Raw Datasets, Documents, * APPs/Tools/Services) and legends on category wise published catalogs. * These categories are defined as controlled vocabulary for meta-tagging catalogs. These would be displayed as on date. * Provision for selection/filtering year wise from use of a dropdown box. * The categories can be limited to 10 most contributed datasets and rest to be clubbed into Other category. * The charts to be drawn using an Open Source Tool/API/Component most suited for Drupal 6 environment. |
|  | FR9.1.4 | **High Value and Featured Datasets**   * It would display a page having a separate charts on different   catalogs (Raw Datasets, Documents, APPs/Tools/Services) and legends on Total, High value and Featured Datasets published.   * These would be displayed for as on date. Provision for   selection/filtering agency wise, category wise and year wise  from use of dropdown boxes.   * The charts to be drawn using an Open Source Tool/API/Component most suited for Drupal 6 environment. |
|  | FR9.2 | **Suggested Datasets/Documents/APPs/Tools/Services:** It would  display a page having a pie chart on suggested datasets under  classifications mentioned under *xyz*.   * This page would have provision to display some introductory content. * This page would also have provision to receive **“Suggest Datasets”** from the visitors. Following inputs would be asked:   1. input text boxes for email and   2. multiline text box for entering suggestions * Necessary security related issues to be taken care.   Ref Link: <http://www.data.gov/suggestdataset> |
|  | FR9.2.1 | **Day Wise Visitors for Previous Month:** It would display a page  having a bar charts on each day of the previous month.  Provision for selection/filtering other month’s visitor data by  use of a dropdown box.   * The server Access Log may be used to plot this chart * The charts to be drawn using an Open Source Tool/API/Component most suited for Drupal 6 environment.   Ref Link:  http://www.data.gov/metric/visitorstats/dailyvisitorstatistics/September-2011 |
|  | FR9.2.2 | **Month Wise Visitors for Previous Year:** It would display a page  having bar charts on each month of the last one year (starting  from just previous month). Provision for selection/filtering  other calendar year’s visitor data by use of a dropdown box.   * The server Access Log may be used to plot this chart * The charts to be drawn using an Open Source Tool/API/Component most suited for Drupal 6 environment.   Ref Link:  http://www.data.gov/metric/visitorstats/monthvisitorstats |
|  | FR9.2.3 | **Country/ State/Province/City Wise Visitors:** It would display  separate pages (tabs) having a bar charts on top 10 visiting   * Countries * States/Provinces within the implementing country * Cities within the implementing country * The server Access Log may be used to plot this chart * The charts to be drawn using an Open Source   + Tool/API/Component most suited for Drupal 6 environment.   Ref Link:  http://www.data.gov/metric/visitorstats/countrystatistics/September-2011 |
|  | FR9.2.4 | **Number Of Downloads By Category/Organization:** It would  display separate pages (tabs) having a list on no. of download by   * Category * Agency/Sub-Agency/Organization * The list would be shorted by any of the column headers (Category or Agency and downloads) * The pagination and no. of entries per page could also be decided by the visitor using a dropdown menu with options viz. 25,50,100 * The server/database Access Log may be used to plot this chart   Ref Link:  http://www.data.gov/metric/visitorstats/monthlyredirectbydatacategory |
|  | FR9.2.5 | **Number Of Downloads For Year And Month Wise:** It would  display a page having bar charts on each month of the last one  year (starting from just previous month). Provision for  selection/filtering other calendar year’s visitor data by use of a  dropdown box.   * The server/database Access Log may be used to plot this chart * The charts to be drawn using an Open Source Tool/API/Component most suited for Drupal 6 environment.   Ref Link:  http://www.data.gov/metric/visitorstats/monthlyredirecttrend |
|  | FR9.2.6 | **Top 10 Datasets:** It would display a page having a drop down  box containing following options.   * Most Downloaded 10 Datasets (All Time) * Most Downloaded 10 Datasets (Lat 30 days) * Most Downloaded 10 Datasets (Lat one year) * Most Recently Added 10 Datasets * Highest Rated 10 Datasets * Most Viewed 10 Datasets   The list of the above results would be under column headers viz. Sl. No., Title, Agency/Sub-Agency, Category, No. of Downloads and Avg. Overall Rating.   * The server/database Access Log may be used to plot this chart * The charts to be drawn using an Open Source Tool/API/Component most suited for Drupal 6 environment.   **Ref Link:**  **http://www.data.gov/metric/visitorstats/top10datasetreport** |
|  | FR9.3 | Allow users to download any of these reports in PDF, CSV or  Excel format |

## Communities

| **Section/ Requirement ID** | **Requirement Definition** |
| --- | --- |
| FR10 | **Communities**  It would link to the existing and operational Communities module developed using Drupal Commons. |

## Featured Gallery

| **Section/ Requirement ID** | **Requirement Definition** |
| --- | --- |
| FR11 | **Featured Gallery (DataSets, Documents, APPs/ Tools/Services)**  **CMS**   * Provision in the DMS has been built in to mark a catalog as “Featured” and “High Value”. * Admin will have list of Featured and High value  catalogs in CMS * Admin should be provided with an option to be able to select or deselect from above list and assign to featured gallery * Admin should be able to upload graphic image and add text for each of  catalog assigned to featured gallery   **Frontend**   * This page should display the featured catalogs that have been selected in CMS as mentioned above. The rotating panel should be inline with the one shown in <http://www.data.gov/pastfeatureddatasets>. The animation effect may slightly defer. * These panels should be linked to the specific metadata description page. This page should be similar to the one explained in Metadata Description Page section in Catalogs menu with options to rate or download the dataset, if reqd and also to suggest a dataset. * There should be an area above the rotating gallery which will display the text entered by the admin from CMS. |

## Open Data Sites

| **Section/ Requirement ID** | | **Requirement Definition** |
| --- | --- | --- |
| FR12 | | **Open Data Sites Across the Globe**  **CMS**   * Admin should be able to add information about Open Data Sites as follows.   + Open Data Site URL   + Country, State within the Country, City/Local Body * Admin should have the facility to map Open Data Sites to the respective region on a graphical map.   **Frontend**   * This page should have the block displaying text below navigation bar. * Below above block number of Open Data Sites published/available under following classifications will be displayed:   1. International Sites (nos.)   2. Agencies/Sub-Agencies (nos.)   3. States Within the Country (nos.)   4. Cities/Local Bodies (nos.) * Above classifications should be represented in block with hyper Linking the number. * By default, bottom section of the page should display “International Open Data Sites” through an interactive Open Source Map and List of countries with their flags. * Clicking on any country should take user to respective country ODP site. User should be alerted while moving away from the the current website. User should be given an option to close this pop up and stop from navigating to the new page.   This page could be in the line of <http://www.data.gov./opendatasites> |
|  | FR12.1 | **International Sites (nos.)**   * On clicking the hyperlinked “International Sites (nos.)”, user should be taken to the section at the bottom of the open data site page displaying Open Source World Map, with country boundaries. * Clicking on any country should take user to respective country site. User should be alerted while moving away from the the current website. S/he should be given an option to close this pop up and stop from navigating to the new page. |
|  | FR12.2 | **Agencies/Sub-Agencies (nos.)**   * On clicking hyperlinked “Agencies/Sub-Agencies (nos.)” user should be taken to the metric page displaying data as defined in the metric section above. * Refer to: <http://www.data.gov/metric> |
|  | FR12.3 | **States Within the Country (nos.)**   * On clicking the hyperlinked “States Within the Country (nos.)” user should be taken to another page displaying the Country Map with State boundaries. * Cities would be marked as a bullet. * On clicking any of these state/city would take the user to the state/city specific open data website. * Refer to: <http://www.data.gov/statedatasites> |
|  | FR12.4 | **Cities/Local Bodies (nos.)**   * On clicking the hyperlinked “Cities/Local Bodies (nos.)” user should be taken to another page displaying the Country Map with State boundaries * Cities would be marked as a bullet. * On clicking any of these state/city would take the user to the state/city specific open data website. * Refer to: <http://www.data.gov/statedatasites> * Clicking on hyperlinked “States Within the Country (nos.)” or “Cities/Local Bodies (nos.)” takes the user to the same page. |

## What’s New

| **Section/ Requirement ID** | **Requirement Definition** |
| --- | --- |
| FR13 | **What’s New**  **CMS**   * CMS should have a provision for the admin to create blocks on this page and add title, image, description and link to the data blocks. * Current layout of this page will be inline with   http://www.data.gov/whatsnew   * Admin should able to customize the visual appearance of the block like the block size, background color and the text color using css. * Arrangement/layout of the page can be changed as and when desired by the admin. These could be in combination of running text under Heading Level 1, Heading Level 2 and in blocks (containing banners, buttons, etc.) or either of the options * HTML inside the blocks can be changed by admin as per requirement. * There will be section where RSS feeds can be configured by admin , to fetch feeds from various sources.   **Frontend**   * There will be a section which will display the text content and image uploaded by admin from CMS * This page will have a section at the bottom of the page which will display 3 data blocks. * This block will display the title, image, description mentioned by the admin from CMS. * Clicking on the links in the block will take the user to the respective links as defined by admin through CMS. * RSS feeds configured by admin will be fetched and displayed. |

## Footer Links

The home page for this website will be divided into different section: header, content and footer.

| **Section/ Requirement ID** |  | **Requirement Definition** |
| --- | --- | --- |
| FR14 | | **Footer Links Functionality** |
|  | FR14.1 | **Help**   * CMS * The help section and associated pages should be editable in the admin. * Frontend * Help section should be a brief tutorial page which will have different sections and associated pages links. * Page link about brief tutorial of how to use the website. * **Complete details on the following aspects** should **given in separate pages** as follows * Various Sections and their utility * Accessibility Aspects and Screen Reader Access * Effective use of the Search Facility * Use of Various File Formats * Specification for Promotional Banners * Using Choose Themes for the Website |
| FR14.2 | **About Us**   * CMS * The about us page should be editable in the admin. * Frontend * It should display the content added by the admin. |
| FR14.3 | **FAQ**   * CMS * In admin, user should be able to define the questions and answers related to that. * Answers could be text or streaming media (audio or video file) uploaded in CMS. * Frontend * Page with the list of all possible questions and answers related to that. * Some of the FAQ questions are answerable by audio/video medium**.** It should stream the audio or video in the player. |
| FR 14.4 | **Terms of use:**   * CMS * The Terms of use page should be editable in the admin. * Frontend: * Content added by the admin should be displayed. * This page will typically contain a Disclaimer Statement along with Privacy Policy, Data Policy and Moderation of Policy Statements.   1. Privacy Policy: This can be in the line of <http://www.data.gov/privacypolicy> or <http://www.india.gov.in/termscondtions.php>   2. Data Policy: This can be in the line of <http://www.data.gov/datapolicy>.   3. Moderation Policy: This can be in the line of <http://www.india.gov.in/bottom_pdf/cmap.pdf> |
| FR 14.5 | **Link to Us**   * CMS * The Link to us page should be editable in the admin. * Frontend: * Content added by the admin should be displayed. * The purpose of this page is to encourage the visitor to place the link ofData.Gov.CC on their website. |
|  | FR 14.6 | **Add to Favorites**  This link should open the browser’s “Add a Favorite” dialog box asking to bookmark this website to the visitor’s favorite. |
| FR 14.7 | **Tell a Friend**   * Frontend * Users should be able to recommend the website to their friends. * A form for encouraging the visitors to send email to their friends or inviting them to visit the website. It wil have following fields.   1. Name & Email of sender   2. Name and Email of receiver   3. Option to enter mulitple receivers   4. Comment box. * It should send an email to the recipients recommending the website. |
| FR 14.8 | **Contact us**   * Frontend * Based on the contact page configured in admin, it should show that particular type of contact page as listed below:   1. Simple page on contact address of the Website Information Manager.   2. A page with some content, hyperlinked texts and a simple form with input as Name, Email, Subject, Category of message (A drop down box with few options to be decided by the admin) and a textbox for message (expandable box) * CMS * The admin should be able to choose either of the options mentioned in the contact frontend section. * The categories mentioned above (for type 2 contact page) should have configurable parameters and manageable by the backend CMS. |
|  | FR 14.9 | **Accessibility Statement**   * CMS * The Accessibility page should be editable in the admin. * Frontend: * It should display the content added by the admin. * This page should show the accessibility statement. Ref link: http://www.data.gov/accessibility |

## User Relation Management

TBD

## Administrator (PMO) Interface

TBD

## PMO Core Group Interface

TBD

## Respondent (POC) Interface

TBD

# OTHER REQUIREMENTS

TBD

## Interface Requirements

TBD

### Hardware Interfaces

TBD

### Software Interfaces

TBD

### Communications Interfaces

TBD

## Data Conversion Requirements

TBD

## Hardware/Software Requirements

TBD

## Operational Requirements

TBD

### Security and Privacy

TBD

### Audit Trail

TBD

### Reliability

TBD

### Recoverability

TBD

### System Availability

TBD

### General Performance

TBD

### Capacity

TBD

### Data Retention

TBD

### Error Handling

TBD

### Validation Rules

TBD

### Conventions/Standards

TBD

# APPENDIX A - GLOSSARY

TBD