Visualisation Engine and its use & Create Post (Blog, Infographics, Visualization and App)

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Why Data Visualization

- **Data visualization** is the act of taking information (data) and placing it into a visual context, such as a map or graph.

- **Data visualizations** make big and small data easier for the human brain to understand.

- **Visualization** also makes it easier to detect patterns, trends, and outliers in groups of data.
- Custom Visualization Engine using Open Source Technology
- Facilitate to create maps - point and other charting options viz. bar, line, pie etc.
- Registered users can create, save and embed visualizations created from the published datasets and even with their own datasets
- Analyze mash-ups and time series data
- User friendly Interface with ease of Interacting on with the data
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<tr>
<th>Chart Type</th>
<th>Map Type</th>
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<td>Bar Chart</td>
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<td>Stacked Bar</td>
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<td>Pie Chart</td>
<td>LatLong Map</td>
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Functionality of Visualization Engine

Charts:
- Choose any type of chart with any valid series/variable
- Option to change the chart color
- Customize title, labels and notes
- Save, publish, default view, delete, clone options
- Complete view of the dataset
- Option of Group function, Filtering, select needed fields to an instance to make chart
- Transpose option
- Show total number of charts in list with complete view
- Share and download option

Maps:
- Choose options from series to make map
- Customized color for label, stroke, scale
- Show bubbles on states according to the data
- Save, publish
- Zoom in/out option
- Play/Pause/Stop option with time series
- Share and download option
How to Access Visualization Engine

Creating Views of Existing Visualization Instances:
- Accessing Visualization Engine through Resource
- Accessing Visualization Engine through Visualization Gallery
- Accessing through visualize.data.gov.in

Using Own Data
- Accessing Visualization Engine through ‘External Data’

Help wizard facility is available for the user
Create post (Blog, Infographics, Visualization and Application)

Brief Process

For creating and showcasing the Application, Blog, Infographics and Visualization (called as post) on OGD SaaS Instance site (say tn.data.gov.in), workflow contains two users; a subscriber and an instance user account having Admin rights referred as Community Admin.

Subscriber is an anonymous user, who can create posts after login and community admin would moderate posts.

User with Admin rights (Community Admin) can create post on OGD community site (https://community.data.gov.in) for their SaaS instance. Once approved by Administrator, it will be published on OGD Community Portal.

Further description includes two flows each by subscriber and community admin.

1. Post creation by subscriber, moderate by community admin and moderate/publish by Administrator
2. Post creation by community admin and moderate/publish by Administrator
1. Access the saas instance site and click on ‘Community’ tab. User is directed on community of saas instance.
1. Login to site (https://community.data.gov.in) – Click on login icon.

https://community.data.gov.in uses MyGov auth facility to complete login. If user is registered on auth, then enter auth login-id/password and click on ‘Log In with Password’, otherwise first register on MyGov auth through ‘Register Now’ link on authentication page.
1. After Login click on Dashboard.
1. After Login click on Dashboard. Click on ‘New’ to create a new post.
1. After Login click on Dashboard. Click on ‘New’ to create a new post. A sample filled form for post type ‘Blog’ is following. Add all the field description. Choose community type as ‘Tamil Nadu Community’.
2. Post is moderated by Community Admin and Administrator subsequently. Published post is visible on the Tamil Nadu Community page.