

e-Governance Project Phase 2
Website Revamp of SIGeGov (Special Interest Group for
e-governance)

Documentation for the website

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Software Requirements

1. Django version 1.6.1

```
sudo pip install Django==1.6.10
```

2. Django modules

Install synaptic from this link:

<http://askubuntu.com/questions/131979/how-to-install-synaptic-package-manager>

The commands to be used are:

1. sudo apt-get update
2. sudo apt-get upgrade
3. sudo apt-get install synaptic

Go to synaptic manager and install:

1. python-django-registration module.
2. python-django-social-auth module.
3. django-vote module
4. django-haystack module

3. solr-4.10.2

```
curl -LO https://archive.apache.org/dist/lucene/solr/4.10.2/solr-4.10.2.tgz  
tar xvzf solr-4.10.2.tgz
```

4. pip install pysolr

```
pip install -e https://github.com/toastdriven/django-haystack.git
```

5. Install java version "1.7.0_75" in your system. Download and install it here -

<http://www.oracle.com/technetwork/java/javase/downloads/index.html>

Database setup:

1. Assuming mysql is present in the system, If not refer <https://help.ubuntu.com/12.04/serverguide/mysql.html>
2. Now go to mysql CLI, [mysql -u root -p]
 - Create a database as eGov; [create database eGov]
3. Now change the database details in django settings.
 - Go to project's main directory
 - vim test1/settings.py
 - At line 70 and 71, change the username and password with mysql username(root) and password.
4. Now setup the django tables in the database.
 - python manage.py syncdb [It will create all the tables in eGov database]

- During the process it will ask for superuser account, Enter the given details
 username: admin
 password: admin
 email: sigegovadmin@gmail.com
 - You can also create superuser using
 python manage.py createsuperuser
5. Enter project data in tables.
 python manage.py runserver [It will start a django server locally on port 8000]
 6. Open 127.0.0.1:8000/sigegov/enter_data in any browser window. It will enter the value in database. [Close the window, Ignore error page]

Running Solr backend:

1. Go to solr directory
2. cd example/
3. java -jar start.jar [It will start the solr server, move to another terminal window]

Setup indexes for solr search:

1. Create a schema.xml from django haystack indexes so that solr can return the query output
 python manage.py build_solr_schema > schema.xml
2. cp schema.xml to solr [Assuming solr is present in the home directory]
 cp schema.xml ~/solr-4.10.2/example/solr/collection1/conf/schema.xml
3. Now run solr schema as mentioned in previous step
 - Go to solr directory
 - cd example/
 - java -jar start.jar [It will start the solr server, move to another terminal window]
4. Now build the indexes. Go to project's main directory.
 python manage.py rebuild_index

Running django server:

1. Go to project's main directory.
2. python manage.py runserver [It will start a django server locally on port 8000]

Two servers should always run in the backend one for django and other for solr.

Home page: 127.0.0.1:8000/sigegov

Django admin page: 127.0.0.1:8000/admin

Technologies Used

There are various MVC, MV frameworks available to choose from. Some of server-side frameworks to choose from were:

- Laravel (PHP)
- Django (Python)
- Ruby on Rails
- ASP.NET

Some of the client-side frameworks to choose from were BackboneJS, AngularJS, Silverlight. requirements. **Important aspects** came into play when deciding the technologies used. Some of which are mentioned below:

- Performance
- Scalability
- Developer friendly
- Continuous Support and heavy documentation
- Support on various browsers
- Support on mobile devices

After careful benchmarking, we built the SigEGov website's backend with the following technologies.



Python and django's MTV(Model Template View) architecture were used because of the following reasons:

- Rapid prototyping
- Reuse of existing parts of application
- Powerful Template system
- Automatic admin interface
- Complete development environment
- Additional apps of django
- Python's numpy, scipy for handling large datasets in the future

The website's search, both multi-field and PDF search were implemented using solr of haystack modular search. **Factors for benchmarking** search were:

- Quick
- Support Regex
- Support multi-field
- Support PDF search
- Scalable

- Maintainability



Some of the advantages of **haystack** are:

- Spelling suggestions
- Faceting
- Highlighting
- Search term boosting

Performance improvements with Apache Solr:

High traffic sites running search queries against the database can start to degrade the site's overall performance if the database becomes the bottleneck. This is also true for lower traffic sites with lots of content. Complex search queries can be slow to run.

Requirements for features such as faceted search are becoming increasingly common. This can be delivered in conjunction with Django core search using the Faceted Search module but the inherent scalability and performance implications are well documented by the module's maintainers.

Other useful Apache Solr Features:

Apache Solr also supports indexing and searching multiple sites (imagine internal intranet site and external corporate site), indexing attachments (eg PDFs, Excel documents) and recommended content blocks driven by a node's taxonomy. The module page and the Acquia Search overview both have a good overview of the Apache Solr features that Drupal supports.

The **front-end** for our website used the following technologies:



All of these provided with:

- Better interactivity
- Easier navigation
- Compact design

All the technologies used are also used by reputed brands for example Twitter uses solr for search and Google uses Ajax for Maps.

Features Implemented

- Improved 3-step user registration
- Search by **PDF** and **state-wise** and also **multi-field search using Ajax**
- **Comment** on project, **upvote/appreciate** the project
- **Social Media Plugins** added to share the page and increase outreach.
- **Compare** between two projects
- Support to **Google Translate API**
- Make the website more **accessible** with extensive testing in Chrome Vox Reader
- Implement a simple **chat service** for the website
- Show **website tours**, to acquaint the user about the workflow

The detailed workflow has been shown in the screenshots below:

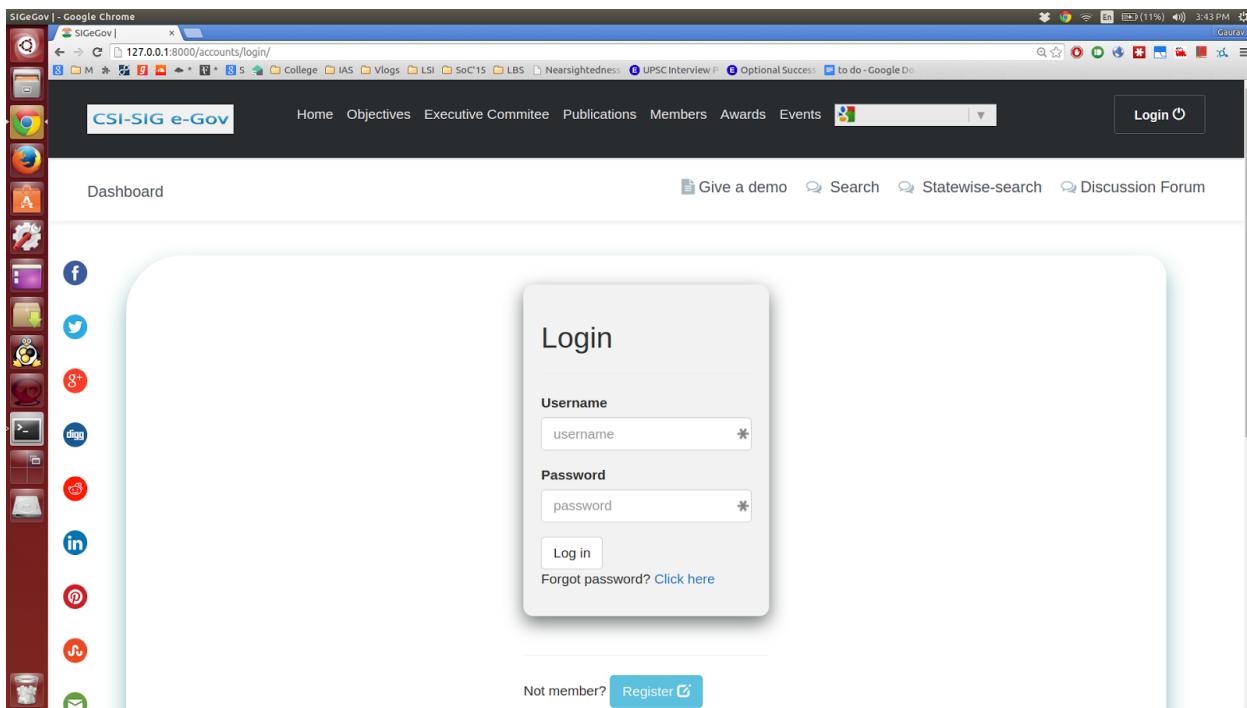
3 step-user Registration

As, a part of the requirements of the project, we were told to implement a 3-step registration which follows such a workflow :

1. New User signup
2. Verification on personal e-mail verification
3. Admin approves user request from his dashboard
4. User get's notified by e-mail
5. Now user can sign-in

The workflow has been shown in the following steps :

Login Page



New User Registers

SIGeGov | - Google Chrome

127.0.0.1:8000/accounts/register/

CSI-SIG e-Gov

Home Objectives Executive Committee Publications Members Awards Events

Save Site Never... Not Now Login

Dashboard Give a demo Search Statewise-search Discussion Forum

Login

Username: gauravp

Email: gparida94@gmail.com

Password: *****

Password Again: *****

Submit

Waiting for 127.0.0.1...

User Verifies e-mail

Account activation on example.com - gparida94@gmail.com - Gmail - Google Chrome

https://mail.google.com/mail/u/1/#inbox/14d09d1f3600e69f

Google Gmail 2 of 15

Inbox (14) +Gaurav

Compose

sigegov.gov@gmail.com to me 3:43 PM (1 minute ago)

Activate account at localhost:
<http://localhost:8000/accounts/activate/9e0dc72d02925a410d497d08a7b2b901fa258a77/>
Link is valid for 7 days.

Click here to Reply or Forward

0.13 GB (0%) of 15 GB used Manage Terms - Privacy Last account activity: 1 hour ago Details

Sign into chat Search people... Elizabeth Clark C... Sai Vineet Shikher Somal Walter Bender acbart

Take me to Inbox X

User still can't access the profile because he hasn't been approved by the admin

The screenshot shows a Google Chrome window with multiple tabs open. The active tab is titled "SIGeGov | Unauthorized - Google Chrome" and displays the URL "localhost:8000/sigegov/not_authorized/". The page content is a large white box containing the text "You are not authorized to view this page". Above this message, there is a navigation bar with links like "Home", "Objectives", "Executive Committee", etc. On the left side of the browser window, there is a vertical toolbar with various icons for social media and other applications.

Admin view to approve new users

The screenshot shows a Google Chrome window with the URL "127.0.0.1:8000/sigegov/" in the address bar. The title bar says "SIGeGov | Admin - Google Chrome". The main content area is titled "Welcome to Administrator Page". It features a "Create Event" button and a "Pending Users" section. In the "Pending Users" section, there is a row for "gauravp" with a "View Profile" button and a "Confirm Pending" button with a checkmark icon. Below this is a "Accepted Users" section featuring a banner image of two people smiling in front of a building, with the text "e-Governance Reaching the Unreached". The left side of the browser window has a vertical toolbar with various icons.

Admin approves user "gauravp"

The screenshot shows the SiGeGov Admin dashboard. On the left is a vertical sidebar with various social media and application icons. The main content area has a header "Welcome to Administrator Page" with a "Create Event" button. Below it are sections for "Pending Users" (empty) and "Accepted Users" (list item "gauravp" with a "View Profile" button). A banner at the bottom features the text "e-Governance Reaching the Unreached".

Mail is sent to user that admin has approved his profile

The screenshot shows a Gmail inbox. The message subject is "Regarding Membership Request at Sigegov". The message body reads:
Hi,
Your membership request has been approved by admin. You can now login into the system.
Regards,
SigeGov Team

Now the user can login to the site

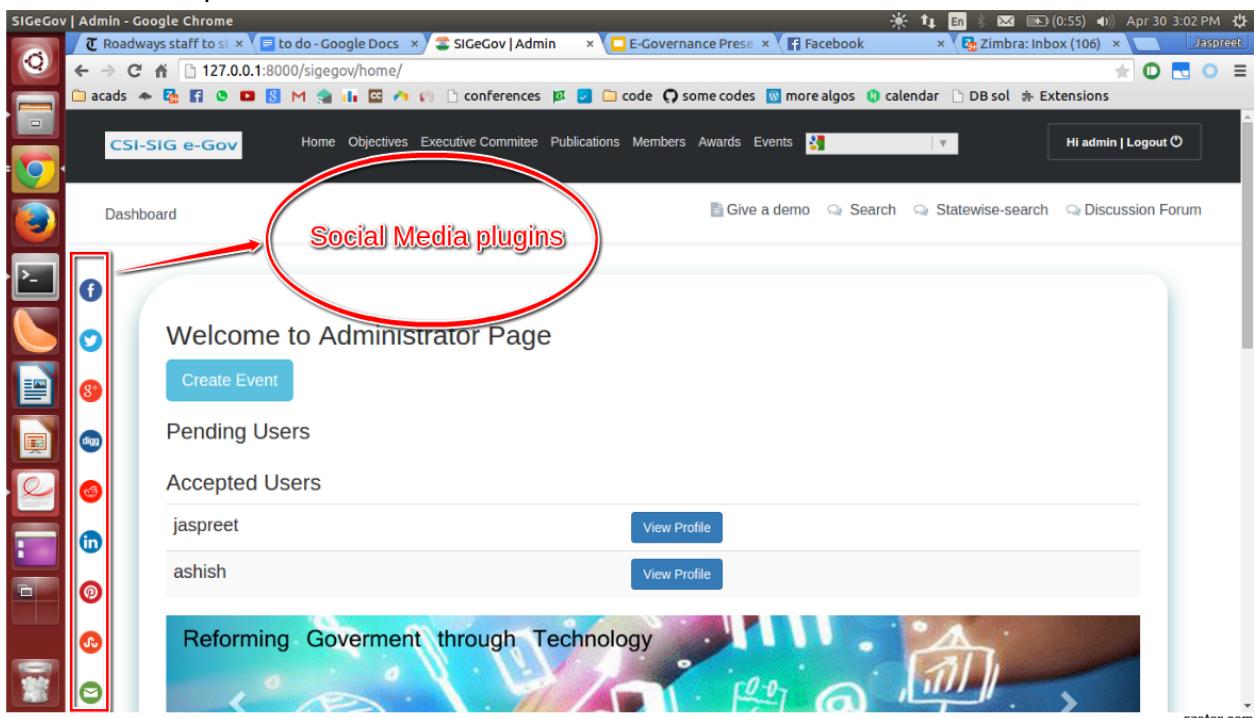
The screenshot shows a web browser window titled "SiGeGov | Admin - Google Chrome". The address bar displays "127.0.0.1:8000/sigegov/". The top navigation bar includes links for Home, Objectives, Executive Committee, Publications, Members, Awards, Events, and a search bar. A user profile "Hi gauravp | Logout" is visible. On the left, there is a vertical sidebar with various social media sharing icons (Facebook, Twitter, LinkedIn, etc.). The main content area features a banner with the text "e-Governance Reaching the Unreached" and a small image of two people. Below the banner, a section titled "SIG on eGovernance" contains text about the Special Interest Group's objective and its impact on governance. The text reads:

Computer Society of India (CSI), has implemented the concept of "Special Interest Groups" to promote activities and research in few focused areas. Special Interest Group on e-Governance (SiGeGov) has been formed accordingly. The basic objective has been to focus on an important area where Information Technology can be leveraged and bring like minded professionals together to add value by bringing out recommendations relevant to various stake holders.

India has already established itself as a leader in the Information Technology sector and create research echo system in the country in this area. Governments are under pressure to deliver a range of services in a timely, efficiently, economical, equitable, and transparent and corruption free manner to its citizens. E-Governance can have a profound impact on the poor and ultimately on the economic output and growth of the country as a whole. Information acts as a revolutionary force in bridging the digital divide. IT can vastly extend access to education, health care, financial services, vocational skills, administrative services and other aspects of the modern society. to many more people at far lower costs apart from generating employment. IT can dramatically reduce the cost of

Social Media Implementation

Social Media Support was provided in the project, which can be used to share the website on different social platforms.



Multi-field Search of Publications

Multi-field search can be done on the basis of putting different options in the columns of Name of the project, State of the Project, Department and the Type of the Project. It uses ajax based search, so no refresh is done between different search calls. Previously, search was done using a **single field only**, but now we can search based on **four fields** and the **intersection of the results** is also done as a part of the search. On clicking on the given project, one can view the details of the project too.

Below image shows the **Govt-to-Citizen projects in Andhra Pradesh**

The screenshot shows a web browser window with the URL <http://127.0.0.1:8000/sigegov/publications/>. The page title is "Publications Search". A red oval highlights a search query: "Query All Govt-to-Citizen projects in Andhra Pradesh with multi-field search support". Below the query, two input fields are highlighted with red boxes: "State Andhra" and "Category Govt-to-Citizen". The main content area displays a table of projects:

Project Title	State	Department Name	Category
MGNREGS-AP(National Rural Employment Guarantee Act - Andhra Pradesh Software)	Andhra Pradesh	Department of Rural Development	Govt-to-Citizen(G2C)
Mee Seva: A Citizen-Friendly G2C Delivery System, Government of Andhra Pradesh	Andhra Pradesh	Department of Information Technology and Communications	Govt-to-Citizen(G2C)
India Development Gateway	Andhra Pradesh	Centre for Development of Advanced Computing	Govt-to-Citizen(G2C)
Implementation of the Indian National Tsunami Early Warning System	Andhra Pradesh	Ministry of Earth Sciences, Government of India	Govt-to-Citizen(G2C)
Mee Seva: A Citizen-Friendly G2C Delivery	Andhra Pradesh	Department of Information	Govt-to-Citizen(G2C)

The following screenshot shows the project view:

The screenshot shows a web browser window with the URL http://127.0.0.1:8000/sigegov/view_publication/148/. The page title is "VAT Information System". A modal dialog box titled "Project Details" is displayed, containing the following information:

Name	Description
VAT Information System	
Document Id	2007
Department Name	Govt. of Gujarat Office of Commissioner of Commercial Taxes
Name	M.M. Shrivastava
Designation	Commissioner of Commercial Taxes
Email	comm-st@gujarat.gov.in
Address	

Search by PDF

Searching inside the contents of PDF was also implemented as a part of this project, the data from the PDF's are extracted and the indexed into the database by the haystack module for solr based search in django. solr was used primarily because of its modularity and its possible large scalable implementation.

The screenshot below show query MGEL in the master search (meta-data and PDF):

Publications Search

Project Title	State	Department Name	Category	Pdf
Select				
Computerisation of Personnel Information Systems (CPIS)	Manipur	NIC Manipur	Govt-to-Govt(G2G), Govt-to-Employee(G2E)	File

Below shows the keyword “MGEL” in the PDF file of the project CPIS:

MGEL S/W was developed using MS Access and given to all the Departments for data entry using their own PCs. Necessary training were also imparted to the Nodal officers of every department for data entry. NIC collected data in the digital forms only which was later on verified by the staff from the concerned department. Thus, the data entry of MGEL started in the year 2002. Response was not impressive in the beginning. It took almost 4 years to complete the Project with the real initiative of State Government.

At present, CPIS is the real driver of all the Government Departments to streamline the staffing pattern as well as to weed out irregular staff. It has almost become Virtual Policy for transfer and promotion, and enforced in every department effectively.

WHAT IS CPIS ?

CPIS is a computerised database containing details of the sanctioned posts and service particulars of all employees in each office of the Government.

Search By State / Map Based Search

An image of the India's map is loaded and based on the state clicked in the map, it will then display the results of the projects that have been implemented in that State (The page being loaded is same as that of Search for multiple fields (modular code)).

SIGeGov | Map Search - Google Chrome

127.0.0.1:8000/sigegov/view_statewise/

CSI-SIG e-Gov

Home Objectives Executive Committee Publications Members Awards Events Give a demo Search Statewise-search Discussion Forum

Dashboard

Statewise Map Based Search

Jammu and Kashmir
Himachal Pradesh
Punjab
Chandigarh
Haryana
Delhi
Uttarakhand
Sikkim
Arunachal Pradesh

300 km
200 mi
© d-maps.com

SIGeGov | Search - Google Chrome

127.0.0.1:8000/sigegov/publications/Rajasthan/

CSI-SIG e-Gov

Home Objectives Executive Committee Publications Members Awards Events Give a demo Search Statewise-search Discussion Forum

Dashboard

Publications Search

Compare

Search in PDF

« 1 2 3 4 5 »

Project Title	State	Department Name	Category	Pdf
Select <input type="text"/>	Rajasthan			File
e-Governance in Jhalawar District, Government of Rajasthan	Rajasthan		Govt-to-Citizen(G2C), Govt-to-Govt(G2G)	File
e-Governance in Jhalawar District, Government of Rajasthan	Rajasthan		Govt-to-Citizen(G2C), Govt-to-Govt(G2G)	File
Pali District, Rajasthan	Rajasthan		Govt-to-Citizen(G2C), Govt-to-Business(G2B), Govt-to-Govt(G2G), Govt-to-Employee(G2E)	File
Rajasthan VAT	Rajasthan	Commercial Taxes Department of	Govt-to-Citizen(G2C), Govt-to-	File

Comment about the Project

The authorised users can comment about the respective projects. The comments of each project is stored in the database and thus, can be viewed later on too. The commenting feature of the website is displayed below in picture :

The screenshot shows a web browser window with multiple tabs open. The active tab is 'SIGeGov | Publications - Google Chrome' at the URL '127.0.0.1:8000/sigegov/view_publication/2/?c=2'. The page title is 'CSI-SIG e-Gov'. The main content area displays a 'Dashboard' with a message: '2 comments have been posted.' Below this, two comments are listed:

- Posted by: Jaspreet Singh on April 30, 2015, 4:12 p.m.**
Can you tell me about the Database Used.
- Posted by: Gaurav on April 30, 2015, 4:13 p.m.**
We use MySQL database for the project.

Below the comments, there is a form for posting a new comment:

Post a comment !

Name

Comment

A vertical sidebar on the left contains icons for various social media and sharing platforms, including Facebook, Twitter, LinkedIn, and Google+.

Appreciate the Project

As, people tend to appreciate the project, but one can't see other users appreciation for the project. So, an upvote system has been added to the project, so the authorised users can appreciate some project/s and the same will be stored in the database, so that the result is reflected everywhere

The screenshot shows a web browser window for the CSI-SIG e-Gov website. The URL is 127.0.0.1:8000/sigegov/view_publication/2/. The page displays 'Project Details' for the Child Record Information System - ChRIS. The details include:

Name	Description
Project Title	Child Record Information System - ChRIS
Document Id	2007-12
Department Name	Commissioner of Jabalpur Division
Name	Anil Srivastava
Designation	Principal Secretary, Government of Madhya Pradesh Departments of Rural Industries Horticulture & Food Processing Industries and Managing Director, MP Warehousing & Logistics Corporation, Bhopal
Email	anilshri@gmail.com
Address	E - 39, 45 Bunglows, TT Nagar, Bhopal
Phone	0755 – 2600506
Fax	0755 – 2600384
Mobile	NA

A modal window is overlaid on the page, prompting the user to "Use this button to show your appreciation for a project. Click again to take back." It features a large blue button with a white upward arrow icon and the number "0". Below the button are three small buttons: "Skip", "Back", and "Next".

Compare different projects

Different similar projects can be compared to each other and they data can also be filtered to see the limited information regarding the data being compared.

SIGeGov | Search - Google Chrome

127.0.0.1:8000/sigegov/publications/

CSI-SIG e-Gov

Home Objectives Executive Committee Publications Members Awards Events

Hi admin | Logout

Dashboard Give a demo Search Statewise-search Discussion Forum

Publications Search

Compare

Select any two projects from respective checkboxes in table and click this button to compare between them.

Name	State	Department Name	Category	Pdf
Child Record Information System - ChRIS	Madhya Pradesh	Commissioner of Jabalpur Division	Govt-to-Citizen(G2C)	File
MGNREGS-AP(National Rural Employment Guarantee Act - Andhra	Andhra Pradesh	Department of Rural Development	Govt-to-Citizen(G2C)	File

Skip Back Next >

SIGeGov | - Google Chrome

127.0.0.1:8000/sigegov/compare_publications/2%2C4/

CSI-SIG e-Gov

Home Objectives Executive Committee Publications Members Awards Events

Hi admin | Logout

Dashboard Give a demo Search Statewise-search Discussion Forum

Project Details

Name	Description 1	Description 2
Project Title	Child Record Information System - ChRIS	Mee Seva: A Citizen-Friendly G2C Delivery System, Government of Andhra Pradesh
Document Id	2007-12	2012
Department Name	Commissioner of Jabalpur Division	Department of Information Technology and Communications
Name	Anil Srivastava	Sanjay Jaju
Designation	Principal Secretary, Government of Madhya Pradesh Departments of Rural Industries Horticulture & Food Processing Industries and Managing Director, MP Warehousing & Logistics Corporation, Bhopal	IAS, Secretary, Department of IT & Communications, Govt. of Andhra Pradesh
Email	anilshri@gmail.com	sjaju1@yahoo.in
Address	E - 39, 45 Bunglows, TT Nagar, Bhopal	
Phone	0755 – 2600506	
Fax	0755 – 2600384	

Intro/Web Tour to different web pages

As a new user to the website, one doesn't tend to know about the different feature in the website. Hence, a button was added in some pages to give a short tour about the different features in the given page of the website. It was built using intro.js library in javascript.

Screenshot of page showing the “Give a demo button” on each page for the demo of that page

The screenshot shows a web page titled "Publications Search". At the top right, there is a "Give a demo" button with a red circle drawn around it. Below the button, a large red handwritten-style text says "start a page demo here". The page contains a table with three columns of project information: Project Title, State, and Department Name. Each row has a checkbox next to it. To the left of the table, there is a sidebar with social sharing icons (Facebook, Twitter, Google+, Digg, LinkedIn, Pinterest, StumbleUpon, and Email). A "Compare" button is located above the table. Below the table, there is a navigation bar with links for "«", "1", "2", "3", "4", "5", and "»".

A Sample demo for compare feature is shown below :

The screenshot shows the same "Publications Search" page as before, but with a modal dialog box overlaid. The dialog box has a red circle around its "Compare" button. Inside the dialog, there is a text instruction: "Select any two projects from respective checkboxes in table and click this button to compare between them." Below this text are four buttons: "Skip", "Back", "Next", and "Next". The main content area of the page is dimmed, and the "Compare" button in the table rows is highlighted with a blue border. The rest of the page elements, including the sidebar and navigation bar, are visible in the background.

Google Translate API

Since, the audience reaching the website, may need multilingual support and hence, Google Translate API was added to the website and now the content can be view in multiple languages.

The following screenshot shows the languages in which a person can view the whole website

The screenshot shows a dropdown menu titled 'Select Language' with a list of 65 languages. The menu is part of a larger dashboard interface. At the top, there's a navigation bar with links for Home, Objectives, Executive Committee, Publications, Members, Awards, Events, and a search bar. On the left, there are social media sharing icons for Facebook, Twitter, Google+, LinkedIn, Pinterest, and Email. Below the language dropdown, there's a search bar for PDF files and a page navigation menu.

Language	Language	Language	Language	Language	Language	Language	Language	Language
Afrikaans	Cebuano	Finnish	Hmong	Khmer	Kazakh	Kazakh	Maltese	Romanian
Albanian	Chichewa	French	Hungarian	Korean	Lao	Mongolian	Sesotho	Swedish
Arabic	Chinese (Simplified)	Galician	Icelandic	Latvian	Myanmar (Burmese)	Nepali	Tajik	Yiddish
Armenian	Chinese (Traditional)	Georgian	Igbo	Latin	Myanmar (Burmese)	Sinhala	Tamil	Zulu
Azerbaijani	Croatian	German	Indonesian	Latvian	Nepali	Slovak	Turkish	
Basque	Czech	Greek	Irish	Lithuanian	Norwegian	Slovenian	Ukrainian	
Belarusian	Danish	Gujarati	Italian	Macedonian	Persian	Somali	Urdu	
Bengali	Dutch	Haitian Creole	Japanese	Malagasy	Polish	Spanish	Uzbek	
Bosnian	Esperanto	Hausa	Javanese	Malay	Portuguese	Sundanese	Vietnamese	
Bulgarian	Estonian	Hebrew	Kannada	Malayalam	Punjabi	Swahili	Welsh	

The following screenshot display the Publications page translated in Hindi

The screenshot shows a search results table for publications. The table has columns for Project Title, State, Department Name, and Category. Each row includes a checkbox and a 'File' link. The interface includes social media sharing icons on the left and a navigation menu at the bottom.

Select	Project Title	State	Department Name	Category	Pdf
<input type="checkbox"/>	Child Record Information System - ChRIS	Madhya Pradesh	Commissioner of Jabalpur Division	Govt-to-Citizen(G2C)	File
<input type="checkbox"/>	MGNREGS-AP(National Rural Employment Guarantee Act - Andhra Pradesh Software)	Andhra Pradesh	Department of Rural Development	Govt-to-Citizen(G2C)	File
<input type="checkbox"/>	Mee Seva: A Citizen-Friendly G2C Delivery System, Government of Andhra	Andhra Pradesh	Department of Information Technology and	Govt-to-Citizen(G2C)	File

Accessibility Testing

In an effort to support to have a more disabled friendly website, we did extensive testing in the website using Chrome vox reader to improve the accessibility of the website. A blind person can view the projects state wise and then listen to the reader and accordingly respond and do search. A short video has been added to show the feature in working:

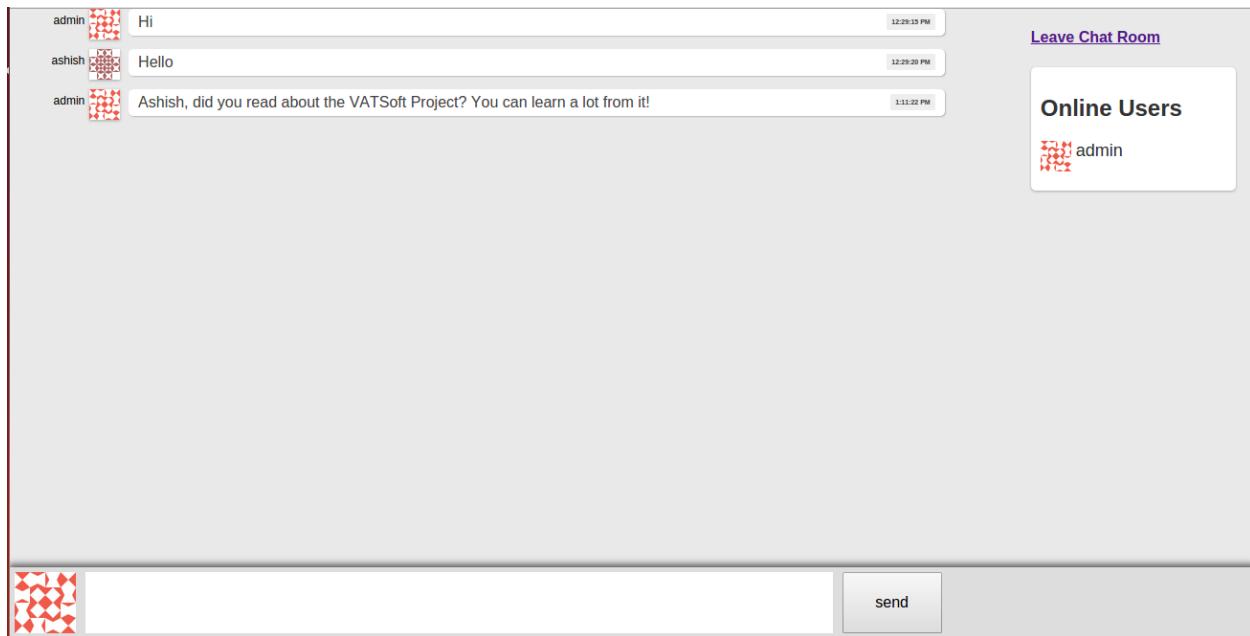
To show the accessibility feature, we had to take the video screen capture. To view the video please click on the click given below

<http://youtu.be/yysvQeJQrwk>

Chat Service

A simple chat service was also implemented in the project, where the users can logon and find multiple users in the same room and then conduct different discussions regarding different e-governance projects.

Here is a screenshot of the chat prototype we have developed



Events Notification

The admin can add different events for the project and the authorised users can view the events that are currently posted by the administrator.

Following is the screenshot of the functionality create event and the events page :

The screenshot displays two pages of the CSI-SIG e-Gov website, illustrating the event management functionality.

Create Event Page: This page shows a form for adding a new event. The fields include "Name of the Event" (Webinar on E-Governance Projects), "Name of organiser" (Administrator), and "Upload File" (Choose File: Webinar_Details.pdf). There are also social sharing icons on the left and a "Submit" button.

Project Title	Submittee	Complete PDF
E-Gov Project	TA's	File
E-Gov Project	Ashish	File
Project Title	Submittee	Complete PDF

Event Details Page: This page displays the details of the added events. It includes a table with columns for Project Title, Submittee, and Complete PDF. The table shows two entries: "E-Gov Project" submitted by "TA's" and "E-Gov Project" submitted by "Ashish". Below the table, it says "Showing 1 to 2 of 2 entries" and includes navigation buttons for Previous, Next, and a page number indicator (1).

View all Authorised User

As a part of connecting like minded-people, for helping each other regarding the implementation of the different projects, we show all the authorised users and their email to any authorised user on a page.

The administrator accessing the dashboard for all authorized users will look like this:

The screenshot shows the CSI-SIG e-Gov administrator dashboard. At the top, there is a navigation bar with links for Home, Objectives, Executive Committee, Publications, Members, Awards, Events, and a search bar. On the right of the top bar, it says "Hi admin | Logout". Below the top bar, there is a header with "Dashboard" on the left and links for Give a demo, Search, Statewise-search, and Discussion Forum on the right. A sidebar on the left contains social media icons for Facebook, Twitter, Google+, LinkedIn, and Pinterest. The main content area starts with a "Welcome to Administrator Page" message and a "Create Event" button. Below that, there are sections for "Pending Users" and "Accepted Users". Under "Accepted Users", there is a list with two entries: "jaspreet" and "ashish", each with a "View Profile" button. At the bottom of the screen, there is a banner with the text "e-Governance" and arrows on either side.

Conclusion

The scope of the project can further be enhanced by adding more CRUD functionalities, like many authorized members can create a event based on the access given by the Administrator. The extensive testing has been limited to Chrome on Desktop Devices. So, extensive testing needs to be done. One, additional feature that we can implement is to have a completely separate codebase for the mobile based devices, as the AJAX based search makes lot of simultaneous calls to the server, which may be limited in case of mobile based devices and the network capability.

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References

Link to the github repository - <https://github.com/aka001/SigeGov>

Link to short presentation -

https://docs.google.com/presentation/d/17dYh4XWb37VG5WZQvhTsxN4Uw8aMJxb642MvWDjJqVw/edit?pli=1#slide=id.g9b122880c_1_10