

Vol. 4 | No.1
Jan-March, 2006

Project INVITE

- Introduction Projects
- Rural Dispensary Mgmt. System - RDMS (1)
- Talimrojgar
- Service Cadre Automation
- Power Scheme
- Customized Project Manager
- CLRSYS
- Museum Administration System
- RDMS (2)
- Kala Academy Portal
- e-Governance News:**
- Dataquest e-Gov Summit-06
- 9th eGov Conference, Kochi

Editorial Team

**Neeta Shah
Prashant Shah**

Project INVITE

INTRODUCTION

Gujarat Informatics Ltd. (GIL) & IBM India on 10th June, 2005 announced the signing of a MoU to fuel academic excellence in the State of Gujarat named project INVITE – Initiative to Nurture a Vibrant Information Technology Ecosystem. The MoU was signed in presence of Hon'ble Education Minister, Smt. Anandiben Patel, Principal Secretary (Education), Commissioner (Technical Education); Shri J N Singh, Managing Director, Gujarat Informatics Ltd. (GIL) and Secretary, Science & Technology Department and Mr. Rod Solomons, EBO Executive – Software Group, IBM India.

In our earlier news letter of December-2005 we had covered overview and brief about project INVITE - 2005. In this news letter, we have covered Brief of each of the Top Ten winning Projects.

The prize distribution Ceremony for project INVITE 2005 was held on 24th March, 2006 at Gajjar Hall, Ahmedabad. Chief Guest on this occasion was Shri P. Panneervel, Principal Secretary, Education Department. Detail of whole ceremony is mentioned in the eGovernance News part at the end.

Sequence diagram of the project :

PATIENT MANAGEMENT	PATIENT REGISTRATION		
	PATIENT TREATMENT	INPATIENT	
		OUTPATIENT	
	PATIENT TEST REQUEST		
LAB TEST	BLOOD TEST SETUP		
	TEST DETAILS	X-RAY	
		CT-SCAN	
		SONOGRAPHY	
		BLOOD TEST	
	VIEW TEST REQUEST		
ACCOUNTING	FIXED COST		
	PATIENT ACCOUNTS	ENTER TRANSACTION	INPATIENT
			OUTPATIENT
	SUPPLIER TRANSACTION		
	ENTER SALARY TRANSACTION		
	GRANTS RECEIVED		
	VIEW REPORTS	CASHBOOK REPORT	
		EXPENSE SUMMARY	
		EXPENSE DETAILS	
INVENTORY	ITEM		
	VIEW BATCH		
	INVOICE		
	SUPPLIER		
	CATEGORY		
	REPORTS	DATEWISE ISSUE REPORT	
		STOCKS NON-AVAILABILITY REPORT	
		EXPIRY ITEMS REPORT	
		ITEMWISE ISSUE REPORT	

Looks:



The screenshot shows the TalimRojgar.gov website in a Microsoft Internet Explorer browser window. The browser title is "TalimRojgar - Microsoft Internet Explorer" and the address bar shows "http://localhost:8080/talimrojar/index.jsp". The website header features the TalimRojgar.gov logo and the tagline "We Make Dreams Come True". The navigation menu includes "Home", "Register New", "Advance Search", "Newspaper Jobs", and "Resume Builder". A status bar at the top right indicates "You are not Logged in | Login".

The main content area is divided into several sections:

- Other Facilities:** A sidebar menu with links for "Resume Tips", "Interview Tips", "Events", "Map Search", and "FAQs".
- Candidate Section:** Described as "An effective job search facility".
- Employer Section:** Described as "Best resume search with job posting facility".
- Resume Builder:** Described as "A powerful tool to prepare resume".
- Newspaper Jobs:** Described as "Regular updates of newspaper jobs".
- Jobs Search:** A search box with fields for "Keywords", "Category", "Functional Area", and "Location", along with a "Search" button.

At the bottom of the page, there are links for "Government Related Websites", "Contact Us", and "Feedback". Logos for IBM, INVITE, and GIL are also present.

Education deputy director:

- Education deputy director extends Registered User, working under Education director. Education deputy director has access to view and update all information. Education deputy director is authorized by their top level (Administrator).

District Education Officer (DEO):

- DEO extends Registered User. DEO has access to view and update all information below their level, DEO is authorized by their top level deputy director and education director (Administrator). DEO is responsible to authorize all users working under them directly (like Education Inspector, Principal, Clerk, etc.) and users authorized by school Principal like teacher, clerk etc.

Principal:

- Principal extends Registered User. Principal has access to view and update all information below their level, Principal is authorized by DEO. Principal is responsible to authorize all users working under them like teacher, Assistant teacher, clerk etc.

Teacher, Clerk, Superintendent, EI, Auditor:

- All of the above users extend Registered User. They can access to view all related information. All users are authorized by their top level user.

Database Engine (DB/2 8.1.7.445):

- The Database Engine stores the system information passed to it in a database format.

Notes: - Updated and new user information must be authorized by the higher authority then only his/her information would be considered for the cadre management.

1.0 MODULES:

SCAS is divided into major four modules.

- 1) Entry (employ personal, job, work and cadre information).
- 2) DEO & School
- 3) Report & Search
- 4) Administrator

2.0 SCMS Silent Feature:

- Web based Application.
- Keep track of Personal, education, job and sonority Information Cadre wise.
- Various MIS Reports. · Important Statistics.
- Level search. · Multi tire system architecture.
- Open source. · Platform independent.
- Seamless integration with any other Tools(Transfer Tool) · Scalable.

3.0 Limitation:

· Limited master maintenance module.

4. Power Scheme

- **TEAM NAME :** HiTech Logic
- **TEAM MEMBERS:** 1. VEENA R. RAO 2. CHARVI N. SHAH 3. SAUM SRIVASTAVA
- **GUIDED BY:** Mr. Hemal Patel – MSC IT pro. - Surat,
Mr. P.H. Jagtap – Social Justice & Empowerment Department, GoG

This is a web based system for SOCIAL JUSTICE and EMPOWERMENT DEPARTMENT OF GUJARAT Government. The system automates the current manual system that is to give loans to SC, BC and other minority communities. Basically the Department has few corporations under it such as Schedule Caste Development Corporation, backward class Development Corporation and minority finance and Development Corporation. This corporation provides loads to respective classes as per the different schemes. The system maintains all the information related to the beneficiary, the different types of schemes, district, taluka, village information, recovery details, legal transaction details, document handling transaction details, disburse information etc.

There are following users of the system:

- ✓ **S.J.E.D. Level officer**
- ✓ **Corporation Level Users**
- ✓ **District Level Users**
- ✓ **Applicants and**
- ✓ **Visitors**

The system consists of many modules and is accessible as per the permissions.

The facilities offered to the visitors are as follows:

Home Page:

This page is displayed to all the visitors of the site. The page contains the following link:

Download Application Form –

This links to a page that would allow the visitor or the user to download the application form for applying for a loan to any scheme that is currently being offered.

Current Schemes –

This links to a page that displays the list of all the current ongoing schemes being offered as per the Class that could be SC, BC or minorities.

List of District Offices –

The page displays all the district offices and their details such as address, phone no. etc.

Feedback –

The page is for retrieving the feedback of visitors or beneficiaries about the site for its further improvement.

Contact US –

This page displays all the detail of the Corporation.

About Us –

The page is for displaying the detailed history of the SOCIAL JUSTICE and EMPOWERMENT DEPT. That is the various functions it performs and the reasons.

The facilities offered to the **corporation level user's** are as follows:

Log In: The user needs to login into the site through the main home page.

Home page of corporation level user's:

This page displays a menu that contains various links.

The corporation user is allowed to perform various tasks and hence includes the following modules:

1) Create Users : Corporation users can create the users of district level.

2) Master Modules:

Corporation Manipulation:

Taluka Manipulation:

Project Manipulation:

Social Group Manipulation:

Social Class Manipulation:

Cheque Manipulation:

Lawyer Manipulation:

Visit Manipulation:

District Manipulation:

Village Manipulation:

Scheme Manipulation:

Caste Manipulation:

Sub – Caste Manipulation:

Bank Manipulation:

Hearing Manipulation:

Beneficiary Application Form:

3) Transaction Modules:

Beneficiary Advance Module:

Recovery Transaction:

DHC (document handled charges) transaction:
Legal Fee transaction:
Corporation Transaction:
Monthly Transaction:

This is a process that runs on 1st day of every month, this starts with all the Reports:

The corporation user can then view the following reports:

- Beneficiary reports
- Ledger report
- Recovery reports
- General reports

The various facilities offered to S.J.A.D. level officer are as follows:

- 1) **Create Users:** The S.J.A.D officer can create users of corporation level.
- 2) **View Reports:** All the reports that corporation level officer can view can be viewed by S.J.A.D officer.

The various facilities offered to district level users are:

- 1) **Beneficiary Entry Module:** same as explained in corporation level.
- 2) **Reports**

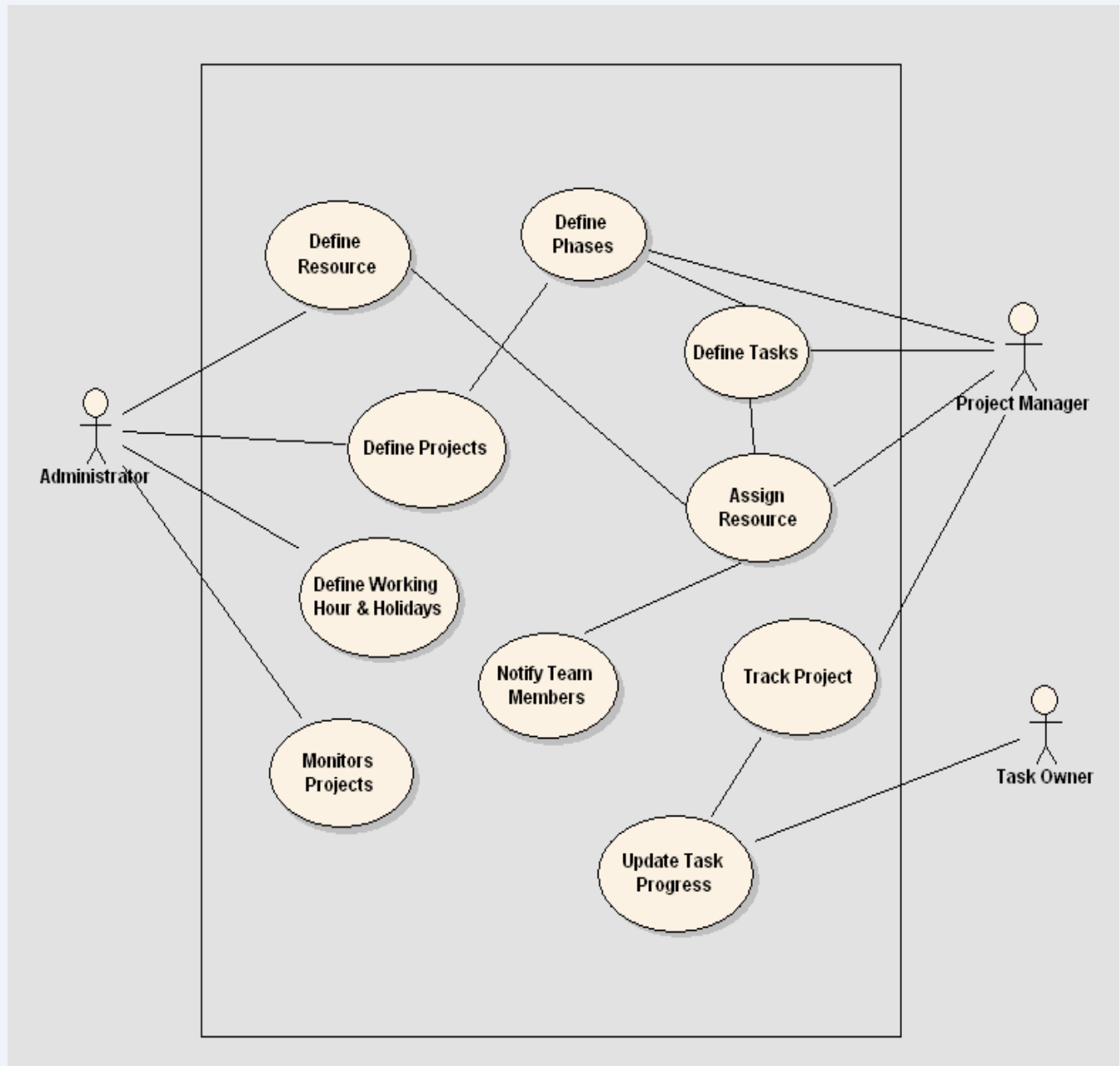
5. Customized Project Manager

- **TEAM NAME :** InfoKnights
- **TEAM MEMBERS:** 1. PRIYANK DESAI 2. SANKET KOTHARI 3. KUNAL JHA 4. TEJAS PATEL
- **GUIDED BY :** Prof. H.J.Patel – M. S. University - Vadodara,
Mr. Prashant Shah & Amarish Darji - GIL

Project Management is an art and science as well, there are no fixed rules for how to do project management but provided some guidelines or some basic rules to manage project can definitely provide uniformity in organization of project. Guidelines used for project management in GIL are as follows:

- 1 After project has been assigned to project manager he shall organize project into phases and tasks.
- 2 Project Manager should divide project into phases depending on type and size of project.
- 3 Project Manager then should divide phases into tasks.
- 4 For each task duration and start date and constraints and task owner should be defined.
- 5 Then interrelationships between tasks are defined
- 6 After that resources required for each tasks are identified (in this case we are talking about human resource)
- 7 After resource has been identified resources should be assigned to tasks.
- 8 Project Manager should take care that resources are not over allocated.
- 9 Once project starts task owner on time of interval updates the progress of task.
- 10 Project Manager should monitor project progress.
- 11 Project Manager when feels requirement of changing project plan i.e. redefining timings of tasks and phases.
- 12 Project Manager should close project when it is completed.

Activity Diagram for Customized project Manager:



CLRSYS Application is based on the idea of developing a plug-ins for software, the facility provided in Eclipse. We used an open source GIS software called “udig” and built a “toolbar plug-in”, called CLRSYS plug-in, with the filename “distancetool1” into it. We have developed our project in Java and we have followed coding conventions that are followed in Java for methods, classes and variables. We have used MYSQL as database server and SQL as query language.

The software provides three basic features and the procedure adapted follows them:

1) Digitizing of the maps:

There are free softwares available that can convert scanned maps to shapefile format, which can be viewed in our software. Free software that can do this work is epilinfo 2000 link to this software is http://www.soi.city.ac.uk/~dk708/res/epi_info2k.zip, POPMAP and mapscan software http://www.soi.city.ac.uk/~dk708/res/un_popmapscan.zip.

Open source software AUTOTRACE that can convert bitmap to shapefile is provided in <http://autotrace.sourceforge.net/>.

NOTE:

Things that need to be taken care while converting scanned map to shapefile are Shapefile should be saved as cityname.shp for e.g. if city is Gandhinagar then shapefile should be gandhinagar.shp and each surveyed land is called feature, each feature has distinct ID, this ID should be in format gandhinagar.1, gandhinagar.2.

2) Displaying survey –id and related info:

When a shape file (in our case a land map of a city) is loaded into the application, one has to select a “Box selection” tool bar in the toolbar menu and select a segment (defined by a boundary) to highlight it and change its color. This is in effect selecting a particular survey-id, which we will retrieve depending on the selection in the background and the info related to that particular survey-id is retrieved by requesting the MYSQL server. Then by selecting the CLRSYS toolbar plug-in and clicking on the map (anywhere) pops up the JAVA form, called Info-form, displaying the information related to that survey-id which was previously retrieved from the MYSQL server.

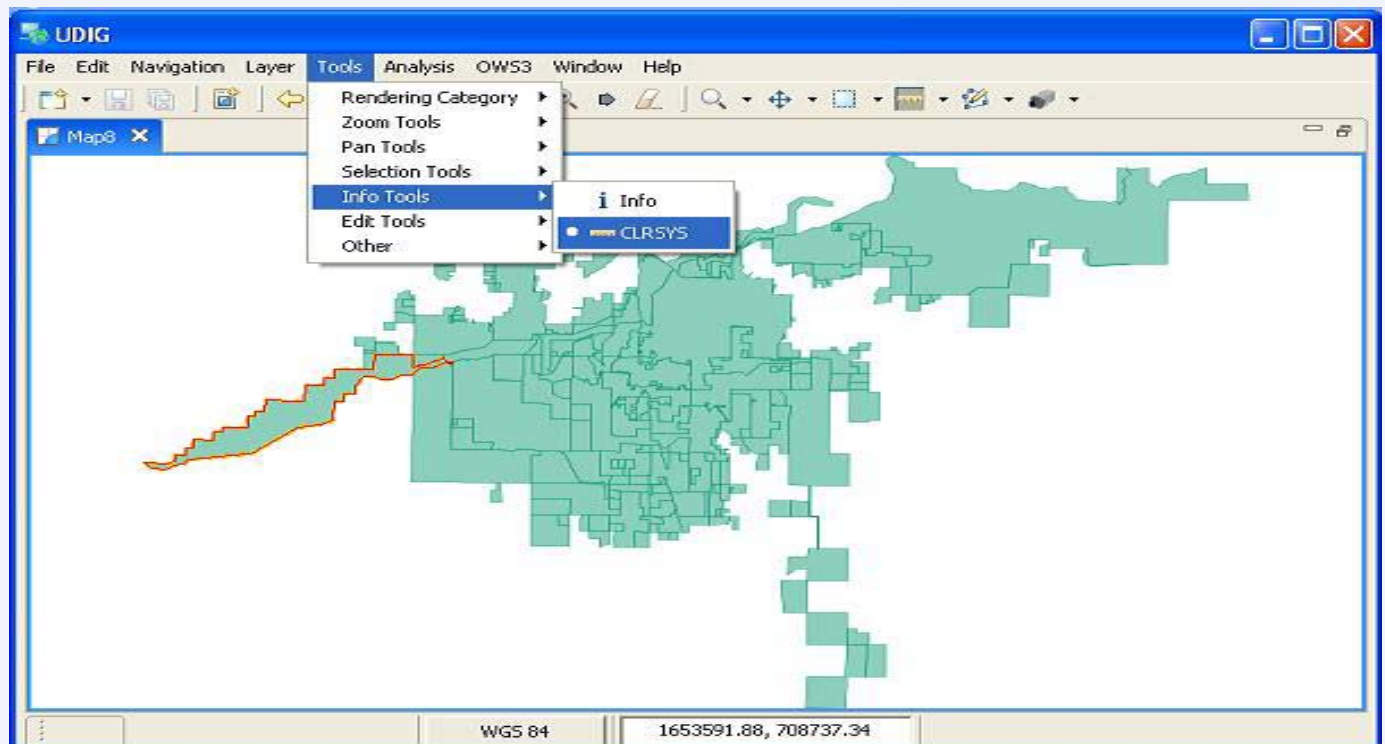
3) Search and Update features:

Addressing the Search feature, clicking of the “Search” button in the Info-form pops-up another JAVA form, called the Search-form, which asks for the search string and the category of search. Various relevant categories of search like search by survey-id, search by land address and type of land are being provided. The resultant matching record information is displayed in the Info-form and segment corresponding to that particular matched survey-id change in color in the current map. In case multiple matching records the “Next found” button click in the Search-form does the displaying information and highlighting of segment for the next matching record in the database search in MYSQL server. And this continues for all the matched records in the search.

Coming to the update feature, when the land information is displayed in the Info-form for a selected segment in map, if the fields are changed the “Commit” button in the Info-form updated the current information in the Info-form in that particular record in the MYSQL server database.

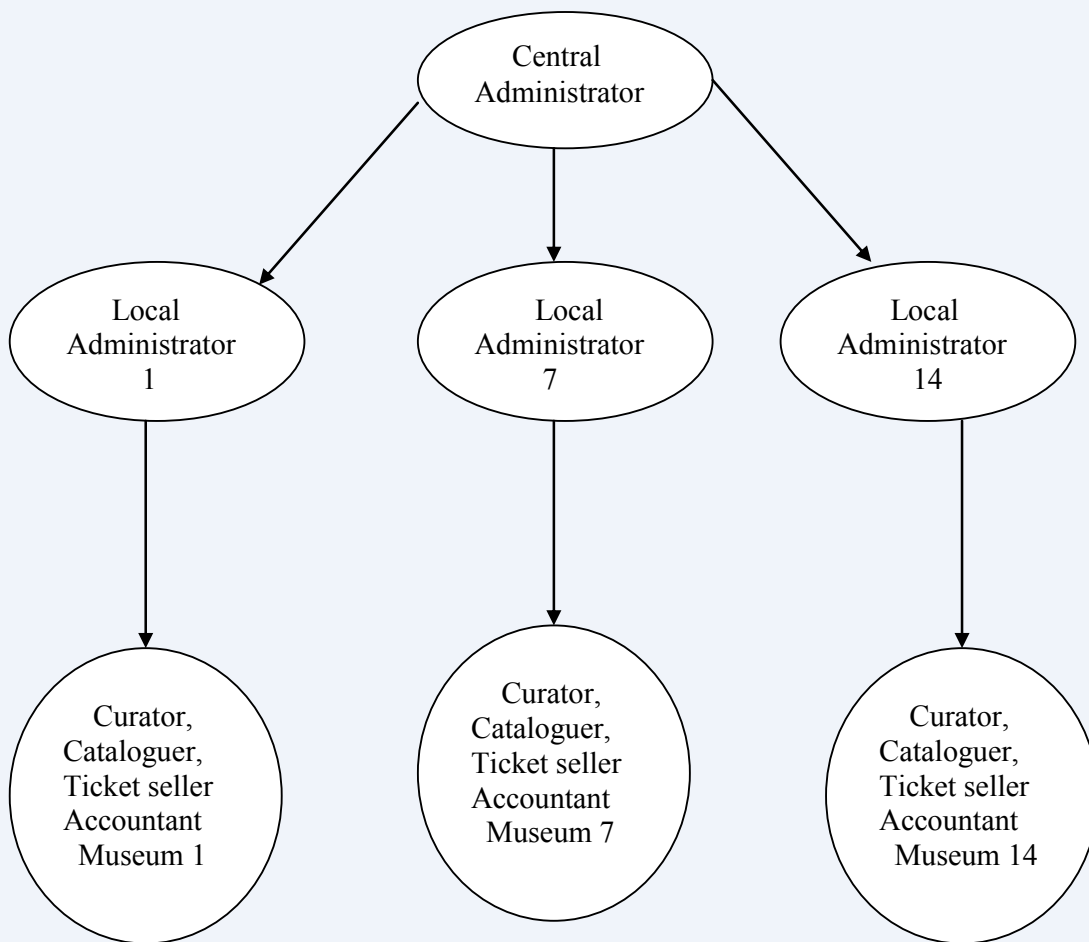
Salient features of the project:

We can search for a land based on the survey-id or type of land or location. We can access and update from remote servers and security related issues implemented. One of the screenshots is as follows:

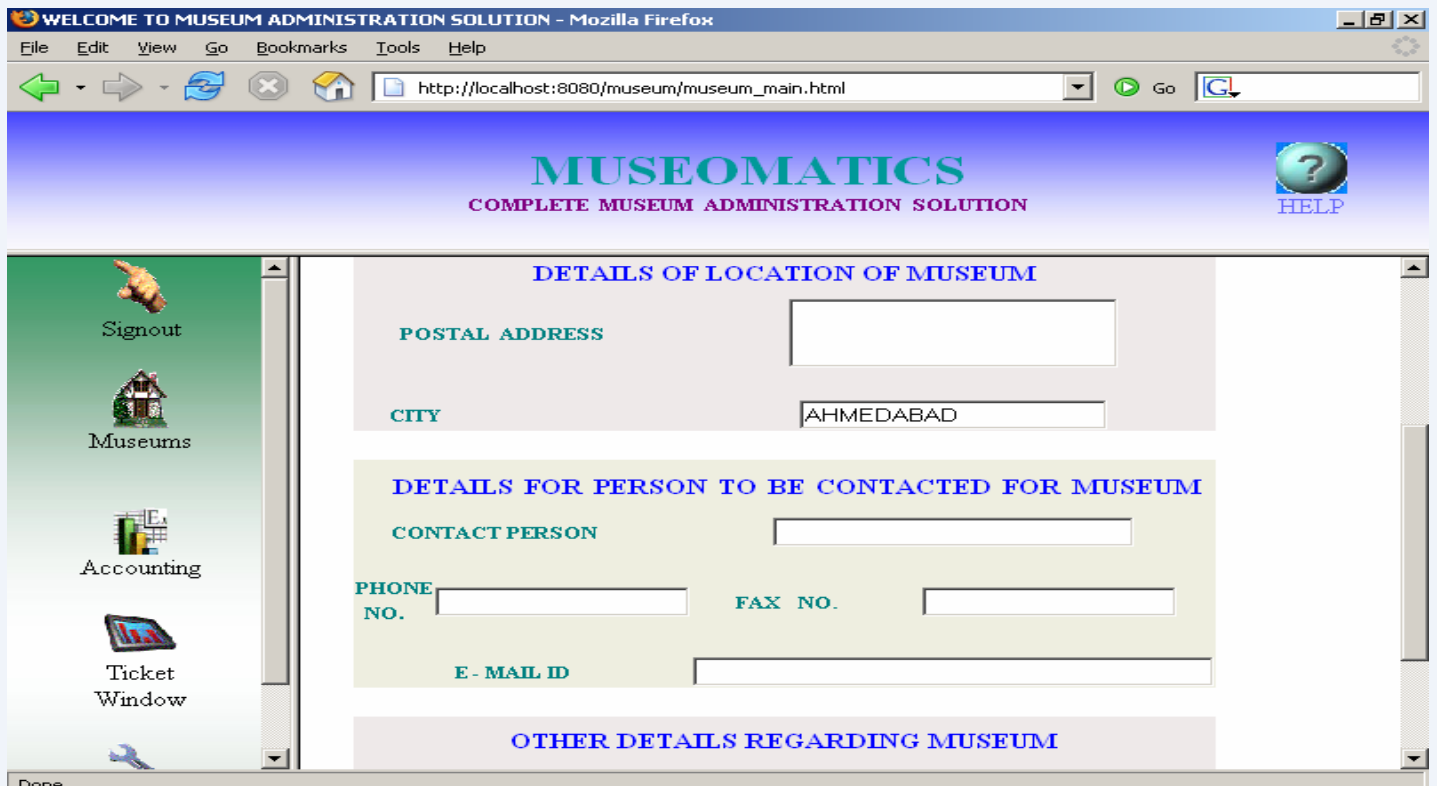
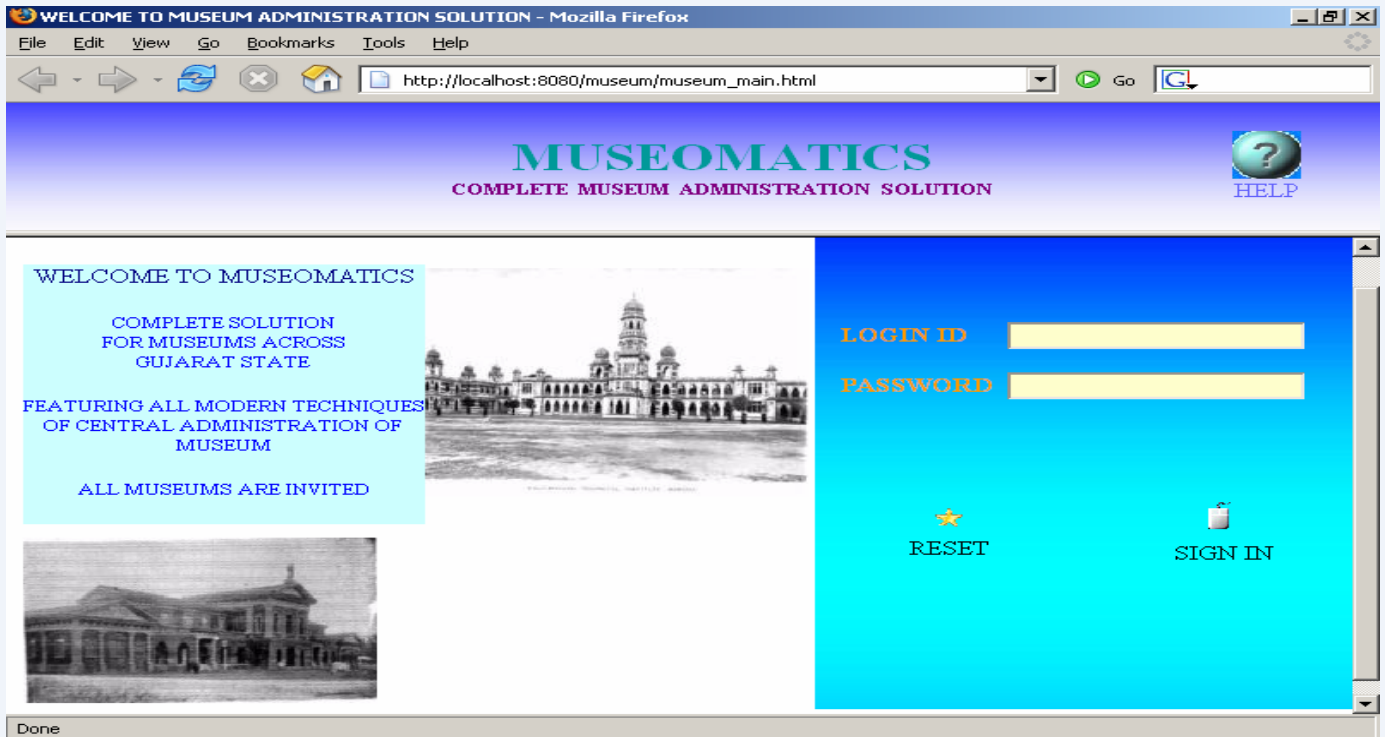


In **ticket-window module**, issues the tickets to the visitors who visit the museum. The daily report of income from visitors is submitted to the accountant at the end of a day. These tickets generated are important from security point of view.

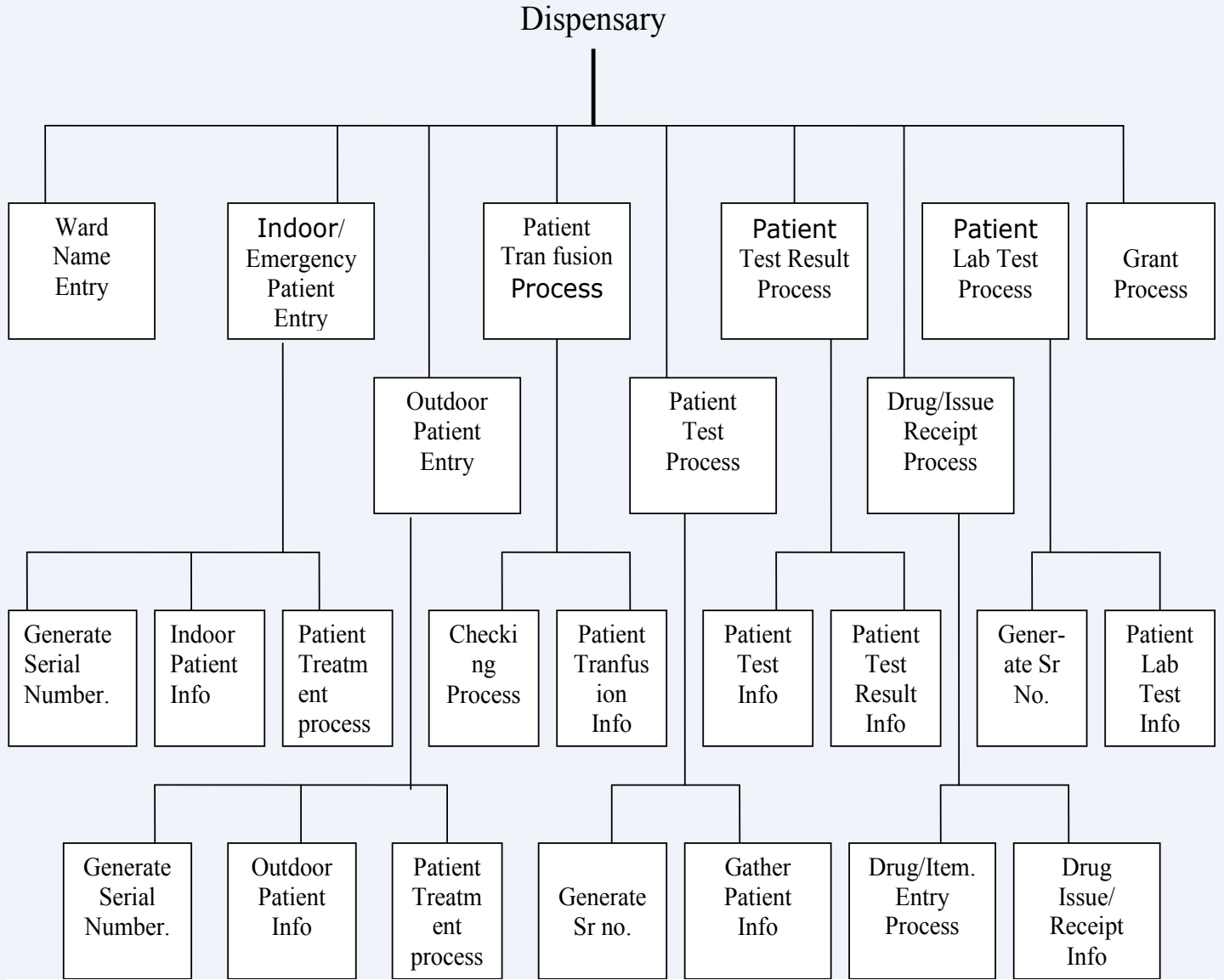
The access has been provided to various users of Museomatics in accordance to their designations. The system classifies the users as following.



Screenshots of the Application:



Process Hierarchy:



9. Kala Academy Portal

- **TEAM NAME :** Quarkz
- **TEAM MEMBERS:** 1. AVI MEHTA, 2. RAMNATH R IYER
- **GUIDED BY :** Ms. Binita Desai - DAIICT,
Ms. Ankita Patel - Sport, Youth & Cultural Activities Department, GoG

The Kala Academy project catering to artists from various disciplines is a Web Portal that intends to be an Information gathering and dissemination centre on the internet. The portal serves people affiliated to following academies:

1. Lalit Kala Academy - painters and photographers
2. Sangeet and Natak Academy - performing artists
3. Sahitya Academy -writers and poets

The portal serves users through a common interface which is designed so keeping the usability in mind. The home page serves the users with the latest news and events as entered by the site admin (admin interface included with project and can be accessed from link: <http://<base URL>/index.php?page=admin>).

Portal intends to serve following aims:

- Data of all Artists with various details stored through Profile facility
- Provide an Events Calendar
- Registration Facility
- Search Facility
- Blogging Facility to each Artist
- A fully functional Admin-side to manage the website, homepage etc.

All above modules have been completed and following modules are yet to be done:

- Advanced Search
- Uploading of Media from artists
- Gallery for the media files
- IE fixes (Internet Explorer does not render some things properly)
- Security & error-checking/validation across the site

Some of the prominent features of the portal are:

1. Completely Dynamic content
2. Complete administration through Admin pages including main page, User Registration, events, news
3. A "WYSIWYG" editor for news and events thus no trouble of formatting the articles.

Screenshot of the home page of Portal:



The screenshot shows a Mozilla Firefox browser window displaying the Kala Academy website. The browser title is "Kala Academy - Mozilla Firefox". The address bar shows the URL "http://invite.aiq.qnet/index.php". The browser interface includes a menu bar (File, Edit, View, Go, Bookmarks, Tools, Help), a toolbar with navigation buttons, and a bookmarks bar with folders for Email, QNet, News, DA-ICT, Development, Personal, and Entertainment. The website content features the "kala academy" logo in English and Gujarati, a search bar, and a navigation menu with links for "Post to blog", "Manage my files", "Edit my profile", and "Logout". The main content area is divided into "News" and "Events" sections. The "News" section lists "Column layouts for CSS" and "PM re-inaugurates center for fools". The "Events" section lists "Anti-workshop protest by d.c.", "Another workshop for children", and "Workshop for delinquent children". Below these is a "Recent Blog-posts" section with a post titled "Wassup, Doc?" by "craze_cruzer" on "28th Dec, 10:44" with the text "Howdy???". The footer contains copyright information: "Copyright © 2005 Ramnath R Iyer ALL RIGHTS RESERVED" and links for "Terms Of Service", "About Us", "Support & Feedback", and "Frequently Asked Questions". The browser status bar at the bottom shows "Done" and an "Adblock" button.

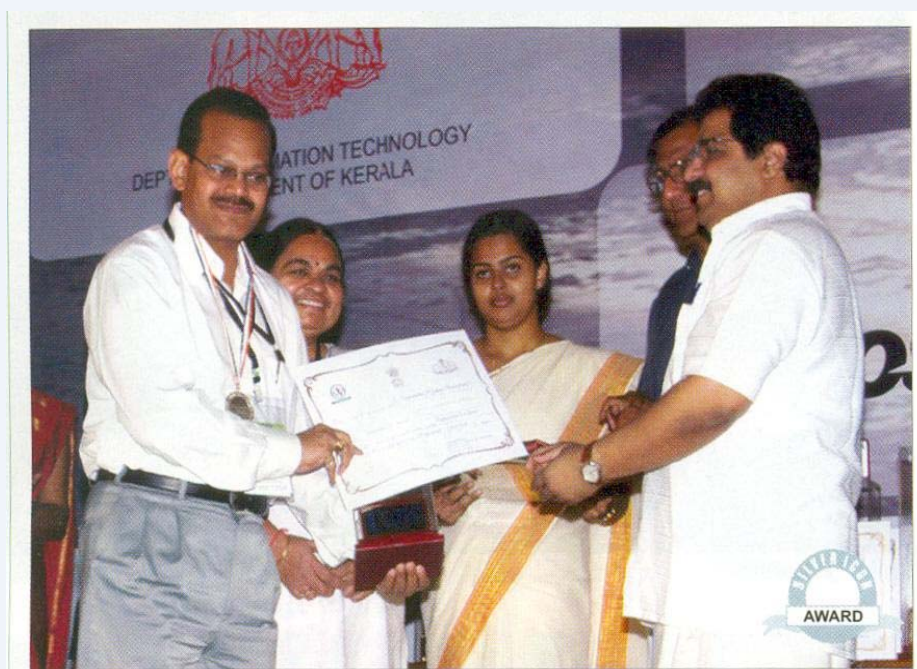
eGovernance News

Gujarat at 9th eGov Conference at Kochi

The 9th National e-Governance Conference, convened at Kochi in Kerala from 2nd to 4th February, 2006 under the joint auspices of the Department of Administrative Reforms and Public Grievance, Department of Information Technology, Government of India, and the Department of Information Technology, Government of Kerala, provided a forum for discussion on various e-Governance related issues among experts from administration, industry and academia, leading to the formulation of regional and national e-Governance strategies. The forthcoming national convention enabled delegates to share the success stories emanating from states which have already taken a lead in e-Governance. Awards are also distributed to recognize and appreciate the successful efforts by the states and / or organizations in achieving good governance using ICT.

Gujarat had participated in this Conference and Awards, organized at Kochi. Total 150 entries were submitted for the above eight category's across the India.

Gujarat had won Silver Icon Award for e-Nagarpalika (Vejalpur) for **“Professional Excellence In Process Reengineering – Professional”**



Gujarat bags Two Awards at Dataquest e-Gov Summit 2006

In order to create a balance of domain expertise and IT knowledge, the Dataquest e-Gov Summit 2006 was held at Mumbai on 24th February, 2006 for Western Region states to address 'The Vision', imperative for a country to chalk out a long-term integrated roadmap and for making India truly digital.

The conference was focus on presentations that address key segments for implementing e-Governance. These were included Best Practices and Case Studies from across India. The theme of this Summit was 'Digital India: Vision 20:20 for an e-Governed Nation' sums up the intent.

Gujarat had participated in this Conference and Awards. Apart from Gujarat, Maharashtra, Madhya Pradesh, Chhatisgarh, Goa, Dadar and Nagar Haveli and Div & Daman had also participated from Western Region.

There was following two Awards category in which Award was given.

- 1) Dataquest Best e-Governed State Award
- 2) Dataquest e-Gov Champion Award (Three Champions per Region)

Gujarat has won the Award for the both categories as follows:

- 1) Dataquest Best e-Governed State Award – Gujarat
- 2) Dr. Neeta Shah, Director (e-Governance), GIL

The above Awards were given based on the Dataquest-IDC e-Gov Satisfaction Index Survey. The Awards and Certificate have placed at the Hon'ble Chief Minister's Office.

It is a matter of great pleasure and pride for our State to achieve such prestigious awards.

WEB CORNER

Invite Project Organized by GIL & IBM

<http://www.invite.co.in>

eGov - 2006

<http://www.egovonline.net>

For electronic subscription to the bulletin, please email us with your email address at:

webmaster@gujaratinformatics.com

or visit us at:

www.gujaratinformatics.com

**Contact Address:
Gujarat Informatics Ltd.**

Block No. 1, 8th Floor,

Udyog Bhavan,

Gandhinagar - 382017

Phone: 079 - 23256022

Fax: 079 - 23238925