SILVER TOUCH®

Case Study

Educational Web Portal For Department of Higher Education, Haryana (India)

[CMS WEBSITE – GOVT. /PSU – ASP.NET, MSSQL]

Client Overview

About Client: Client is **Department of Higher Education, Haryana (India).** The Department is focused on all-round development of the students and to make them self reliant and globally competitive, Department has been taking new initiative in providing student centric and teacher oriented education programs. Setting up of new educational institutions, expanding the capacity and improving the existing institutions is their primary focus. They improve the pedagogy for better results, Attract private partners and conduct programs & policies, Use of Technology in Higher Education, Training & capacity building of the teaching human resource.

Requirement Overview: Department wanted to develop web portal using Content Management System for Higher Education, Haryana. The actual aim was to disseminate information relevant to stake holders utilizing user friendly interface.

Need for the Web Portal

- Bring Transparency in the entire functionality (department)
- Digitize the information about Colleges, Employees and Students
- To have a bird's eye view of employee service records, trainings, and promotions
- Subject wise work load and Sanctioned Post detail Management
- Employee Transfer Management
- Admission Process to be computerized for easy access to students
- Transparency in Merit List generation and scholarship system

They also wanted to include:

- Online Admission Process
- Online Scholarship management
- College Staff set up
- College Infrastructure set up
- Courses & Subject details
- Search and Locate colleges
- Event Calendar
- Media Management
- Online Feedback & Complaint Tracking System
- MIS Reports

© copyright 1992-2014 all rights reserved. Property of SilverTouch Technologies Ltd.

CMMi Level 5 RATED

Educational Web Portal

Proposed Solution:

Silver Touch has proposed the solution to the Department on .Net based technology platform using Content Management System. To bring transparency in the system, the Web Portal has been designed and developed to create a flexible and informative database that is easy to maintain. Web Portal has been integrated with content management system. The purpose of the portal is to disseminate information relevant to stake holders utilizing user friendly customer interface. It is a one point source of co-ordination for the all Colleges, Management, Teachers, Students and all departmental processes. The portal is capable enough to manage all the existing and upcoming Govt. Colleges and Aided Colleges.

- Proposed solution provides User Friendly Portal Interface, Content Management Based Portal with Content Authorization, Role based access to the web portal

- Website is Cross Browser Compatible, exhibits features such as Online Feedback, Online Public Grievance, Guidelines and Online form for Admission, Various scholarship schemes and online scholarship form, college Staff & Infrastructure, Media Management (i.e. Image Gallery, Video Gallery), Event Calendar, News, Search, Website Visitors Count, Various Reports

- Website is compliant with international standards such as W3C, WCAG, Web 3.0 and it is compatible with major operating systems and browsers

Benefits

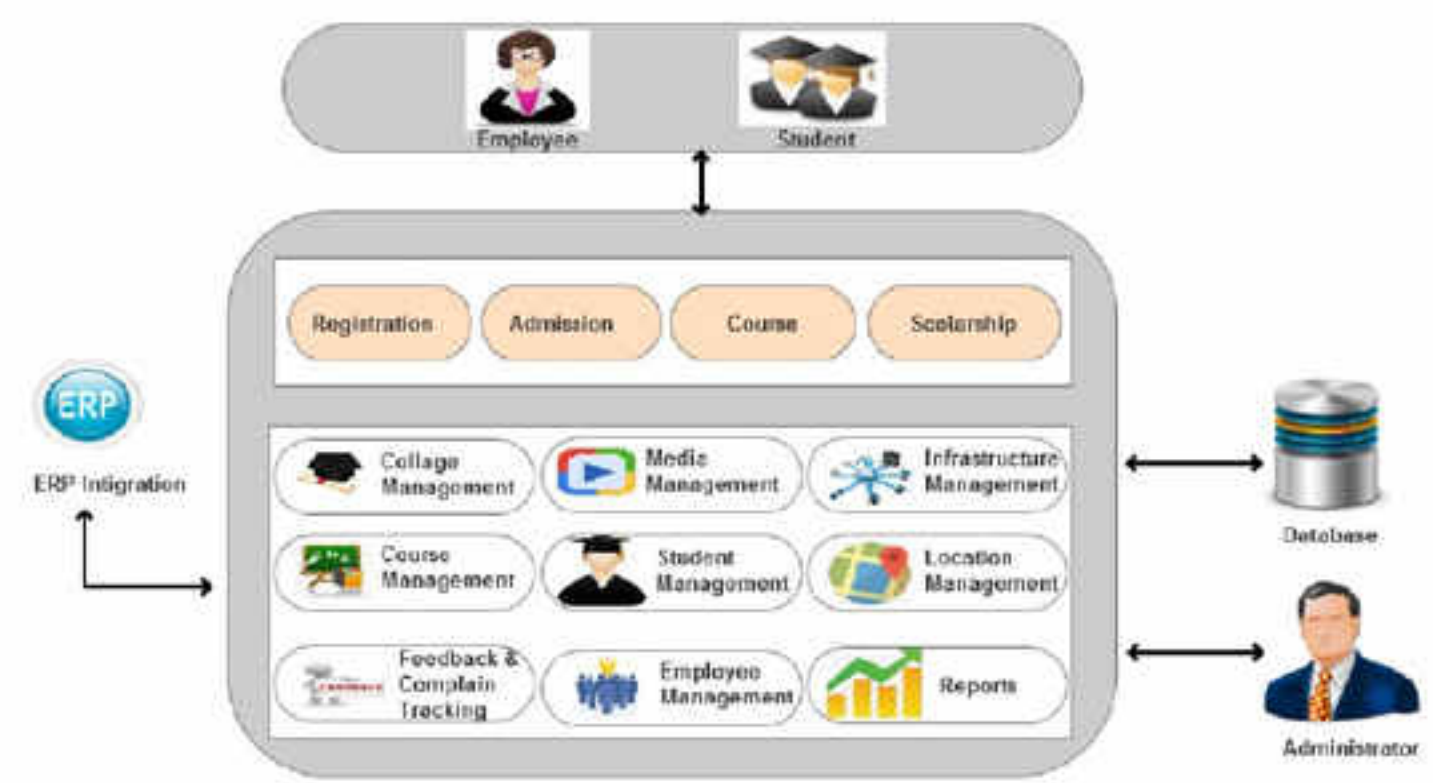
1. Students seeking admission in various courses can apply for Admissions online.
2. Generation of online merit list.
3. Public Grievance Cell is available for students as support cell.
4. Admission System also electronically notifies candidates about the outcome of the admission through SMS and E-Mail Alerts.
5. Information of various scholarship schemes and facilities for students in various colleges is available online. Students can apply for Scholarship online.
6. Complete infrastructure, courses details about each college are available online.
7. It has digitized the information of Employees like Service Records, Training details, Transfers etc.
8. Facility to manage the Website through Content Management System.
9. Student can get news and notices from website and download documents.

Objectives

1. To create easy Administration module and reduce manual work.
2. To improve the Quality of Service and Information to all the major stakeholders.
3. To develop centralized storage and access to Individual College & Head Office Data.
4. To integrate various functions of Department and generate combined MIS reports for all Institutes from single portal.

Project Description & Flow

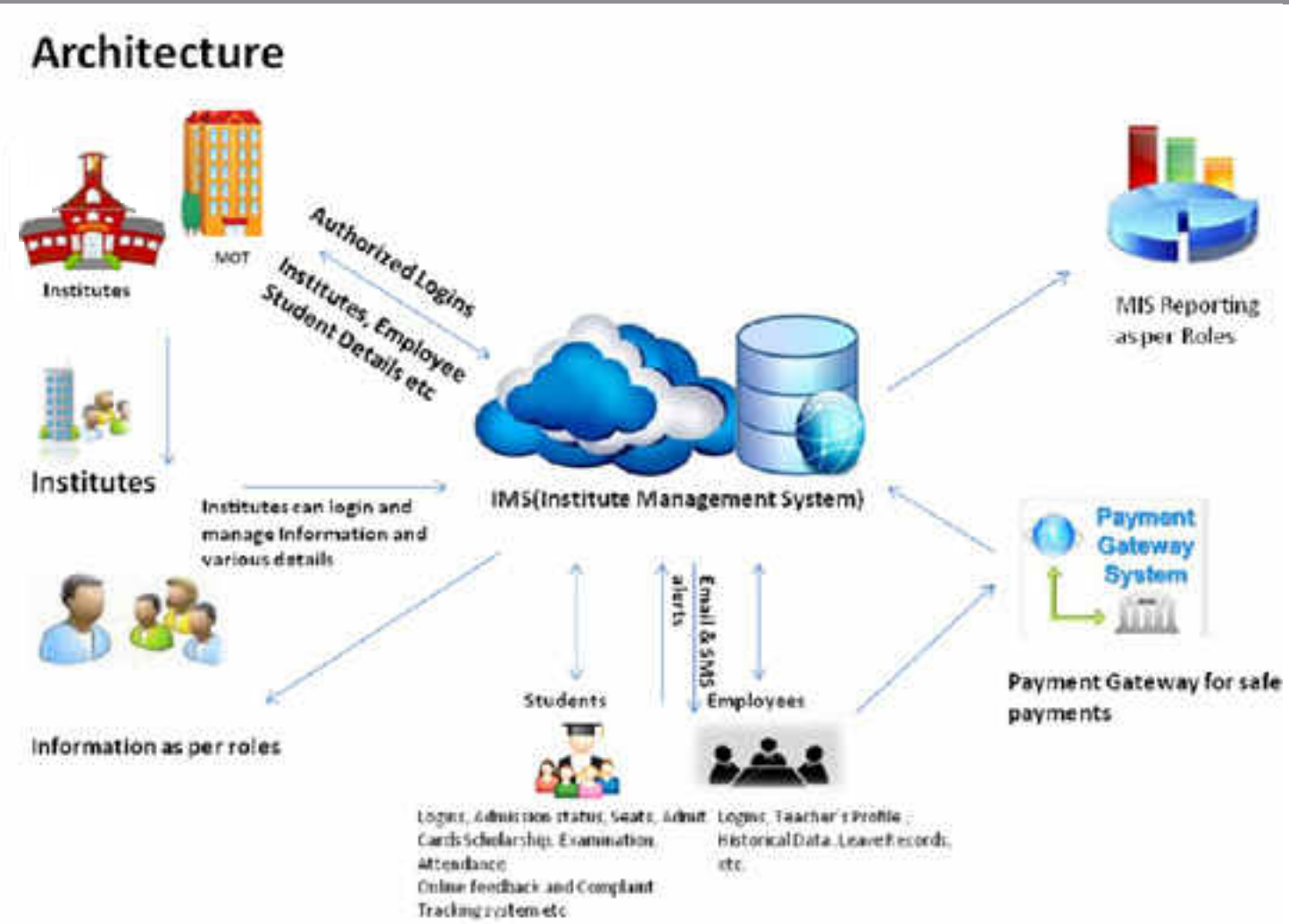
Project Flow



Project Description

The web portal is single point of source for to coordinate with all Colleges, Management, Teachers, Students and all the department process. Various Colleges and Universities are integrated to this portal and broadcasting essential information for civilians, students and employees.

Broadview of the system



List of Modules:-

1 College Management:-

College related information can be updated. Additional colleges can be created.

Each college course, subjects, seats, Infrastructure details are managed by the administrator of the portal.

2. Course Management:-

Administrator can manage course details and differentiate students according to course.

3. Student Management:-

Administrator can mange student profile and update their admission status and scholarship details.

4. Media Management:-

Administrator can manage photo gallery, albums and images.

5. Employee Management:-

Employees can view their profiles by login and communicate through internal messaging system. Employee's educational details, Service records, Training, Transfer details are also available.

6. Infrastructure Management:-

College infrastructure details are managed by administrator.

7. Location Management:-

It displays College details district wise and clicking on college link has the detail about college. College location can be shown using Google map icon.

8. Feedback and complain Tracking:-

Administrator can manage user's feedback and can track user's complain and manage it.

- The main higher education control panel has all the rights for managing the Colleges, Employee data online.

- The web portal on the whole should have authorized Logins for all Colleges.

- The Department has the major administrative role to manage all the colleges' roles and access rights to change, edit or update information.

- A content management system (CMS) is a bundled application to create, manage, store and deploy content on Web pages. Web content includes text and embedded graphics, photos, videos that displays content. Information of the college pertaining to Activities, Committees, News, NCC and NSS is available.

- On successful admission form submission, each student is provided with a username and password. On login the student can check admission status, print admission form, apply for scholarship.

- Each Employee has been given a Unique ID. Employees can view their profiles by login and communicate through internal messaging system. Employee's educational details, Service records, Training, Transfer details are also available.

- ERP (Enterprise Resource Planning) is an integrated system that operates in real time without relying on periodic update.

Project Approach / Activities

The Project was divided into various phases to achieve the best results in less time with optimal utilization of available resources:

Phase 1: System Requirement Study
Phase 2: Design Preparation & Integration
Phase 3: Development of the required features
Phase 4: Testing all features and making deployment plan
Phase 5: Go Live

Educational Web Portal

Technology

Development Environment

Technology	Specifications
Technology & Framework	.Net Framework 4.0
Languages	C#, jQuery, JavaScript
Operating System	Windows 7
Database	Microsoft SQL Server 2008 R2
Web Server	IIS 7.0

Deployment Environment

Technology	Specifications
Technology & Framework	.Net Framework 4.0
Languages	C#, jQuery, JavaScript
Operating System	Windows 2008
Database	Microsoft SQL Server 2008 R2
Web Server	IIS 7.0

Duration

1. Project Development Time: 1200 hours
2. Project Lifecycle : 100 Days

Key Challenges

1. ERP (Enterprise Resource Planning) is an integrated system that operates in real time without relying on periodic update. It has a common database, which supports the process of the department. The quick information of real data is shown on the dashboard.

Results Achieved

1. Project has been completed and running successfully.
2. Department has designed and developed a flexible and informative database that is easy to maintain.
3. Web Portal has integrated content management system.
4. The Portal has the links of all Universities.
5. The portal is capable enough to manage all the existing and upcoming Govt. Colleges and Aided Colleges.
6. Total 51184 students have applied online through the Portal till date.
7. Data for 88 Government Colleges out of 96 has been captured in the database.
8. Data of about 2030 teachers has been captured in the databases.
9. The scholarship benefits given to the students can be updated on yearly basis. The colleges can update their sports events details. The Committee detail can be updated and the information will be available for the students on the website.
10. The Perspective Plan can be updated for the upcoming session. The facilities available in the colleges can be updated for the

information on website. The NCC/NSS units detail along with their activities and achievements can be updated as required.

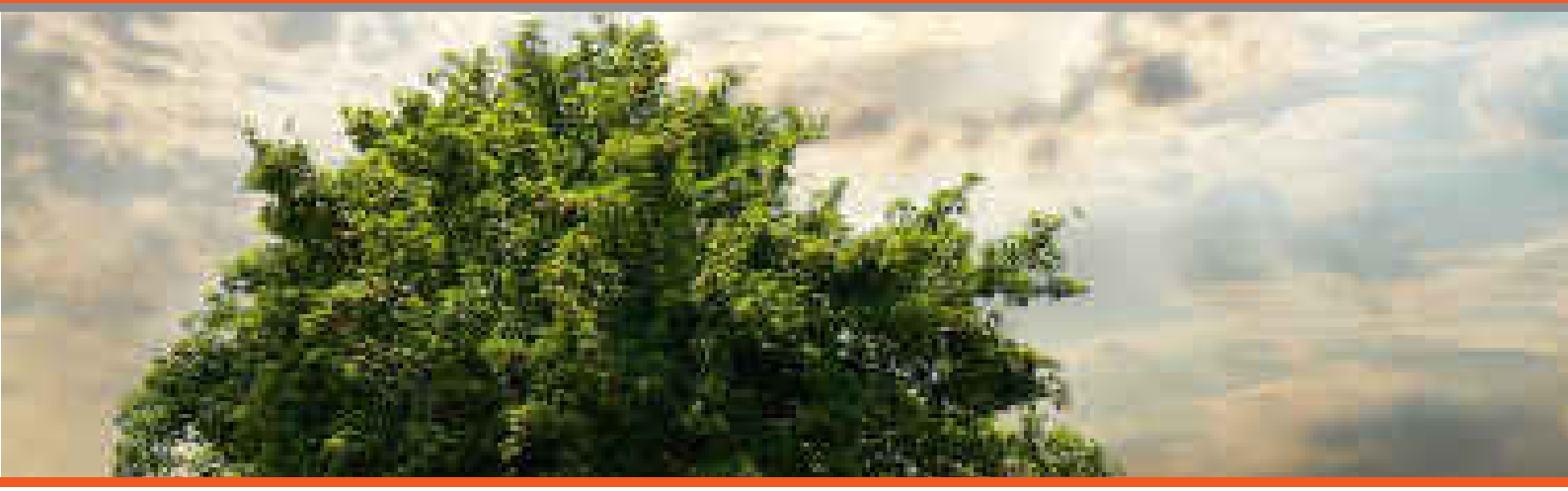
11. The Job Mela if organized, colleges can update the information of the event namely the participating companies' names, colleges and students who were benefitted.

12. News and notices are there for the students displayed on the website. The principal message can be updated and added for the website.

13. We have used ERP for integrating all Colleges data in single database.

Screen Shots

Rajiv Gandhi Govt.College, Saha
Online Admission
HOME
COURSES
INFRASTRUCTURE
FACULTY
CONTACT Us
ACTIVITES
SCHOLARSHIP
SPORTS
COMMITTEES
PERSPECTIVE PLAN
NCC/NSS
FACILITIES
MERIT LIST
ACADEMIC CALENDER
DOWNLOAD SECTION
WELCOME TO COLLEGE
PRINCIPAL MESSAGE
EVENTS



Deliver best products, software solutions and services, on time with quality, and as per customer expectations

About SilverTouch

SilverTouch, a company established in 1992 is widely accepted for its IT solutions with a huge customer base in more than 20 countries across the world.

SilverTouch is actively engaged in Enterprise software development, enterprise content management, document management and IT consulting services such as Business process optimization, process consulting, implementation and customization of ERP. SilverTouch leads brilliantly in new technical developments such as: Mobile Application development services on iPhone, iPad, Blackberry, Android, J2ME and Windows mobile platforms. Even now, SilverTouch helps its global clients for major developments, deployments and managements of their mobility solutions and enterprise application development programs.

SilverTouch has alliance with several industry leaders such as Microsoft, Apple, Cisco, IBM, Oracle, SAP, Java, Dell, VM ware, Symantec, Sonic Wall which provides a competitive edge over other industry peers and targets to understand and cater to all types of requirements that concern our clients, thereby, leading to serve them precisely to their satisfaction.

For more information, please visit www.silvertouch.com or email info@silvertouch.com

SILVER TOUCH®
CMMi Level 5

India Headquarter
SilverTouch Technologies Limited
2nd Floor, Saffron,
Nr. Panchwati Circle,
Ahmedabad-380 006.
Phone : +91 - 79 - 2656 31 58
E-mail : info@silvertouch.com
Web : www.silvertouch.com

United Kingdom
SilverTouch Technologies UK Limited
Essex Technology & Innovation Centre,
Unit 7, The Gables,Ongar - CM5 0GA,
United Kingdom
Phone : +44 - (0) 127-736-4689
E-mail : info@silvertouchtech.co.uk
Web : www.silvertouchtech.co.uk

North America
SilverTouch Technologies INC
497 Route 27,
Iselin, NJ 08830
United States
Phone : +1 201 299 3529
E-mail : info@semaphore-software.com
Web : www.semaphore-software.com

© copyright 1992-2014 all rights reserved. Property of SilverTouch Technologies Ltd.

INDIA • UK • USA • NETHERLANDS • AUSTRALIA • FRANCE • GERMANY

This statement of work is proprietary of SilverTouch Technologies Ltd. and contains trade secrets and confidential information which is solely the property of SilverTouch Technologies Ltd. This statement of work is intended for internal use only. Therefore, it shall not be used, reproduced, copied, disclosed and transmitted, in whole or in part, without the express consent of SilverTouch Technologies Ltd.