

# COLLEGE MANAGEMENT SYSTEM

## Abstract

College wants to computerize its admission process for higher education courses. Basic objectives are to extend their reach to geographically scattered students, reducing time in activities, centralized data handling and paperless admission with reduced manpower. Cost cutting, operational efficiency, consist view of data and integration with other institutions are other factors. Main challenges are effectively sync internal and external operations in such a manner that job can be finished within time limit and integration with different agencies on an agreed upon common data format.

## Existing System

The Current System is a browser which is not totally computerized especially for university admission process. The system takes lots of time in performing different activities, and there is no centralized data handling. There is no integration in the current system upon common data format

## Proposed System

The Proposed system is a browser which is completely related to internet browsing. The web enabled information management system designed to automate the entire operations of a modern. This system allows multi-divisional, multi-department system handling that includes various activities

## Scope of the System

The scope of the College Management System is as follows:

Cost cutting, operational efficiency, consist view of data and integration with other institutions are other factors. Main challenges are effectively sync internal and external operations in such a manner that job can be finished within time limit and integration with different agencies on an agreed upon common data format.

The proposed system scope is Internet. We are using this system through out the world. In future it can be enhanced to be a global communication medium for multinational companies. We can also implement internationalization (i18n) to support user interface in various/local languages.

## Module Description

**The system “College Management System” consists of 4 modules.**

### **1. Administrator**

## **2. Student User**

## **3. User Interface**

## **4. Reports**

### **Administrator:**

Has full access to all the modules of this system. Responsible for the accounts of all students, staff and remittances. Prepares and submits also Daily Reports, student reports.

Has restricted access. i.e., students have access to some of the modules only i.e. user can see the college list and seats list of all products and can take hall ticket through online.

### **User Interface**

Soothing Graphical User Interface with Context Sensitive Help Totally Menu Driven, with Keyboard Shortcuts for frequently used forms

### **Reports**

All frequently used reports at the click of a button

All reports can be previewed, printed, exported to Excel/Word etc., or can be export to PDF, XML, etc

## Features to be implemented

- Session management
- Connection pooling
- Normalized database
- Prevention of duplication login
- Design patterns
- Three-tier architecture
- Maintainability
- Easy deployment with Ant script.
- Exception handling
- Client-side validations

## Technologies to be used

- Web Presentation: HTML, CSS
- Client – side Scripting: Javascript

- Programming Language: Java
- Web based Technologies: JNDI, Servlets, JSP
- Database Connectivity API: JDBC
- Build Tool: ANT
- Debug Tool: Log 4J
- CASE tool: Rational Rose, Visual Paradigm, Enterprise Architect
- Backend Database: Oracle/SQL Server/MY SQL/MS Access
- Operating System: Windows XP/2000/2003, LINUX, Solaris
- J2EE Web/Application Server: Tomcat/Weblogic/WebSphere/JBoss/Glass Fish
- IDEs: Eclipse with My Eclipse plug-ins/Net Beans/RAD
- Browser: IE/Mozilla

## **Hardware requirements**

- Pentium processor ----- 233 MHZ or above
  - RAM Capacity ----- 128MB
  - Hard Disk ----- 20GB
  - Floppy disk ----- 1.44 MB
  - CD-ROM Drive ----- 32 HZ
- KEYBOARD ----- 108 Standard