

Online College Management System

A Report for the Evaluation 3

of Project 2

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Abstract

The title of the task is "College MANAGEMENT SYSTEM FOR COLLEGE" (CMS). CMS is characterized as an application dependent on Intranet that expects to all the degrees of the board giving data inside an association. This framework can be utilized as a data the board framework for the school. For a given understudy/staff (Technical/Non-specialized) the Administrator makes login id and secret word, utilizing these understudy/staff (Technical/Non-specialized) can get to the framework to either transfer or download some data from the database. The front-end will be pages for customer side approval where as all business rationales will be in Java dwell at center layer. third layer of database will be intereacted with the layers, which would be Oracle database.

This paper is aimed at developing an Online Intranet College Management System (CMS) that is of importance to either an educational institution or a college. The framework (CMS) is an Intranet based application that can be gotten to all through the establishment or a predefined division. This framework might be utilized for checking attendence for the college. Understudies as well as staffs signing in may likewise get to or can be search any of the data in regards to school. Participation of the staff and understudies just as characteristics of the understudies will be refreshed by staff. This framework (C.M.S) is being created for a building school to keep up and encourage simple access to information.For a given understudy/staff (specialized/Non-specialized) can get to some data from the database.

Introduction

The College Management System is a web application which permits us to get to the all out data about the school, staff, understudies and offices. In this application we can get the most recent data about the understudies and staff. This application will keep up the understudies course subtleties, charge structures, prospectus and furthermore time tables for the understudies. The application will be kept up by the chairman and he can create the charge installments, leave reports and so on.

Literature Survey

Existing System

In the current framework, everybody must go to the college grounds to get the data about the school, courses, charge and time tables and so forth the current framework expend a lot of time to get any data about the universities. There is no security for the school documents and to keep secure we have to keep up the database. Be that as it may, there is no online calculation.

Disadvantages of the Existing System:

- College have limited time per a day
 - Time consuming process
 - Less security to the college information
 - We cannot create manually for all file within the time.

Proposed System

To solve existing system drawbacks, we build up a period effective application named as "College Management System". By utilizing this application any sort of client like understudy, staff and director can login into the framework and they can play out their ideal activity in this application. The proposed framework gives high security to the school data including understudy and staff subtleties.

Advantages of Proposed System:

The application can accessed through the internet

- User friendly application
- Any time can visit this application
- No need to visit college for getting college information

4. SCOPE FOR DEVELOPMENT OF

THIS PROJECT

The requirement of the user is to

- Access/ Search information.
 - Login to the system through the first page of the application
 - Change the password after logging into the system
 - View/change his/her details.
 - Can get help through the help option to view different features of the system.
 - Students can give feedback on college/staff/any other student.

An admin login should be present who can read as well as remove any uploads

5. GENERAL DESCRIPTION

User Characteristics: The target audience for CMS

product is the college students/staff (Technical/Non

technical). The users for this system are

Administrator – The Super user of the system.

Student – A user with limited access rights.

Staff – A user of the system who has more access rights than a normal user.

Product Perspective

The Product will be an independent application and might be run on numerous frameworks inside an Intranet organize. The item will require a console, mouse and screen to interface with the clients. The base equipment necessities for the item are determined in this report.

Overview of Functional Requirements

The client requires the following features:

The administrator governs the working of the system.

The staff can view the student's details.

A mechanism to uniquely identify each student

The students can view their marks/attendance/exam

schedules .

The system should have a login.

The system should have help feature.

6. USER VIEW OF PRODUCT USE:-

The front perspective on the framework comprises of various administrations gave by the framework and a login page with which a client is provoked to login in to the framework through his client name and secret word. Upon the understudy's login, his/her subtleties are refreshed in to the framework. At the point when all information is entered, the understudy can see their subtleties as well as view their tests and report subtleties. At the point when the understudy's meeting closes, all information is spared. Staff can likewise login to the framework with their id and secret word and approaches the framework.

There will be a unique login name and secret phrase (to forestall understudies in refreshing their subtleties other than profile) to permit the instructor to get to all understudy information in a table structure.

7. SPECIFIC REQUIREMENTS:

1. External Interface Requirements:

- Simple, Attractive, User Friendly
- Self-Contained, Consistent, Self-Explanatory
- Robust.

2. Main modules of the system:

Campus Information: This module gives the information about **Buildings/Blocks:** It contains the information about the total number of blocks present in the campus and also the number of rooms present in each block.

- Laboratories: This gives the information about the number of laboratories present in each department.
- Buses: This gives the count of the buses deployed by the management.

Library: students can borrow/return and can view

status of books present in the library

Administration: This module deals mainly with,

• Admission: This mainly deals registering the

students/staff and assigning them with a login id and password.

• Accounts: This keeps track of the financial details of the college.

• Hostel: It gives information about the college hostel for both boys and girls.

• Bus Routes: This maintains the route details of the buses.

Department Information: This module gives the information about,

- Course: This contains the information about the number of the courses offered by the college and number of seats present in each.
- Staff: This contains the number of staff available in each department.
- Infrastructure: This has the details of the assets

allotted for each department.

• Syllabus: This provides the academic syllabus of the

students from different branches.

Staff Information: This module deals mainly with,

- Profile: This provides personal details of the staff.
- Attendance: This provides the staff with his/her

attendance details.

• Salary: This provides the staff with his/her salary

details.

- Feedback: This feature enables the staff to provide feedbacks to the management.
- View Student Details: This provides the staff to view the student details.

Student Information: This module gives information about,

- Profile: This provides personal details of the student.
- Attendance: This provides the student with his/her

attendance details.

- Marks: This provides the internal/external marks of a student.
- Feedback: This feature enables the student to provide feedbacks to the management.
- Remarks: It contains the remarks written by the faculties about a student.
- Change Password: Provides the student to change his/her password.

Examination Branch: This module contains the information about.

- Examination Form: This gives the information about the issue of the examination form.
- Results: This contains the internal/externals marks

of a student.

- Attendance: It maintains the attendance of all the students (in order to issue the examination form).
- Schedule: This has the various examinations schedules/timetables.

• Seating Arrangement: This has the seating arrangements for the various examinations.

8. SYSTEM DESIGN:-

PURPOSE: Purpose of College Management System for a College (CMS) Design Document is to portray the structure and the engineering of CMS. The plan is communicated in adequate detail in order to empower all the designers to comprehend the fundamental engineering of CMS. Consistent engineering of JDBC driver, Server, DML, DDL, Session and Data Store are clarified.



9. ARCHITECTURAL STRATEGIES:

The architectural design of a software project is just the plan of the whole programming framework. This incorporates the chain of command of the modules and furthermore which

modules are available in the framework. A decent structural plan will make an unmistakable and reasonable harmony between attachment (every module has just a single particular reason), coupling (no two modules rely totally upon one another), reflection (seeing modules in full and not in detail), pecking order (sensible modules come from others) and dividing (intelligently gathering modules) of the product modules



Fig. Abstract view of CMS

10. Implementation:

We have 3 main modules;

Module Description:

Administrator:

- The administrator can view and edit his own profile. He can enlist the new understudies and workforce into the application. The head can deal with the record subtleties and furthermore he can create the expense installment reports, leaves and scholastics.
 - Student:
- The student can add by the administrator into the application. After login into the application, the understudy can see, alter and update his profile. The understudy can apply for leave and view its status. The understudy can pay the charge in this application and view his scholastics.

Faculty:

The faculty can view, update or edit hid profiles in the application. The personnel can look for the understudy leaves and he can affirm the leaves. The personnel can refresh the understudy scholastics.

11. System Requirements:-

Hardware and software requirements

Hardware:-

- > Operating System Supports all known operating systems, such as Windows, Linux
- Computer 512MB+ RAM, monitor with minimum resolution of 1024x768, keyboard, and mouse
- > Hard Drive should be in NTFS file-system formatted with minimum 10 GB of free space
- > A Laser printer will need to be used to print these reports and notes

Software:-

- Software is designed to run on any platform above Microsoft Windows 7 (32bit).
- Microsoft .NET Frameworks 4.0 or above.
- Microsoft SQL Server Management Studio Express 2010.

Data Flow Diagram:

The whole architectural structure stems from the original flow design. Below are the Level 0, Level 1, Level 2 and Level3 Data Flow Diagrams (DFD)..

The diagrams below more accurately portray the data flow through our system. These diagrams take precedence over the diagrams in the requirements document.



Result Home Page:

This is the home page for Knowledge management system. This page also contains the discussion forum topics. Here teaching/nonteaching staff or student can login by their id & password.



(Fig: <u>Result Home Page</u>)

Infrastructure:-

This screen tells about the student/staff admission. The admission will be provided by the administrator. The administrator provides the ID and Password for the student and staff.



Student Addmission Form:-

The BELOW screen provides the administrator, the different fields to be filled to give an admission to student.

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(Fig: Student Addmission Form)

About CMS:-

This screen gives the overview of the Knowledge Management System i.e., the main modules in KMS.



Conclusion:-

The project entitled as College Management System is the system that deals with the issues related to a particular institution.

This project is successfully implemented with all the features mentioned in system requirements

specification.

- The application provides appropriate information to users according to the chosen service.
- > The project is designed keeping in view the day to day problems faced by a college.

12. <u>Reference:-</u>

Books:

[1]IanSommerville,Software Engineering 8th edition.Pearson education,2008.[2]ElmasriNavathe,Fundamentalsof Database System 3rd edition.Pearsoneducation,2000.

[3]RaguRamakrishnan/JohnesGehrk 3rdedition.McGrowHILL,2003. e,Database

•WorldWideWeb: [4]"High-Level-Software Features", [Online].Available: http://www.high-level-software.com/ features/,[Accessed:June.25,2014]

[5]Fernandez& Yuan,X,(1999).An analysisPatternforReservationand UseofReusableEntities.PloP1999 conference, Retrieved from http://hillside.net/plop/plop99/proce edings/Fernandez2/reservanalysisP attern3.PDf

[6]Lauesen, S, (2003), Task Descriptions as Functional Requirements, IEEE Computer Society, Retrieved from http://www.itu.dk/~slauesen/Papers/ IEEEtasks.pdf.

[7]D B Heras,D.Otero,and F. Arguello,"Anecofeedbacksystem for improving the sustainability Performanceof universities," in Proc.2011 IEEE InternationalConferenceonVirtual EnvironmentsHuman–Computer Interfaces and Measurement Systems,Ottawa,ON2011,pp.1–6

[8] Y Wang, B Y Sun, and F Cheng, "Electronicdocument– based process modelfor image archivesinniversities," in Proc. 2011 IInternational Conference on Information Technology, ComputerEngineering, and ManagementSciences, Nanjing, Jiangsu, pp.57–60

[9]X.X.Xin,R.M.Wu,andH.H.Li,"Afaremeworkmodelofthee-campus managementsystem basedonSOA," in Proc.2009 International Conference on Computational Intelligence and Software EngineeringWuhan,2009,pp.

[10] H. M. Weiand L. J.He,

"Constructing the comprehensive academic affairs management system based on SOA," in Proc. 20091stInternationalConferenceon Information Science and Engineering, Nanjing,Jiangsu,pp.3261-3264

[11] S. Jeyalatha, B. Vijayakumar, and G.S. Wadhwa, "Designandimplementationofweb basedapplicationforrelationaldata maintenance in an university environment," in Proc. 2011 International Conference and Workshop on Current Trends in InformationTechnology, Dubai, pp. 105-112

[12] M-H.Lee, C -J.Yooand O.-B.Jang, "EmbeddedSystem Software Testing Using Mobile ServiceBasedOnSOA", IJAST, vol. 1, (2008), pp.55-64

[13]S.H.Al-Daajeh, R.EAl-Qutaish and FuadAl-Qirem,

"Engineering Dependability to Embedded Systems Software via Tactics", IJSEIA, vol. 5,no.4,(2011),pp.45-62

[14]Ming-Syan Chen,JiaweiHan, Philip S yu. Data Mining: An Overview from a Database Perspective[J].IEEE Transactions onKnowledgeandDataEngineering, 1996,8(6):866-883.

[15]R Agrawal, T 1 mielinski, A Swami. Database Mining: A

Performance Perspective[J]·IEEE Transactions on Knowledge and DataEngineering,1993,12:914-925.

[16]VasantDhat.Data Mining In Finance:Using Counterfactuals to generate knowledge from organizationalinformation

[17]System[J].InformationSystem,19 98,23(7):423-437.

[18]RakeshAgrawal,SaktiGhosh, TomaszImielinski,Bala lyer, Aran Swami. An Interval Classifier for Database Mining Applications[M]. CLDB92. Vancouver,British Coumbia,Vanada,1992:560~573.

[19] J Han,Y Cai,N Cercone. KnowledgeDiscoveryinDatabase:
AnAttribute-OrientedApproach[M]. VLDB- 92, Vancouver, British
Columbia,Canada,1992:547-559.[18] J.Hipp, U.Guntzer, G.Nakhaeizadeh. Algorithms for InternationalJournalofComputer Applications(0975–8887) Volume122–No.11,July2015
44associationgeneration.InProc ACM-SIGMOD.Dallas, TX,May2000.1-12

[20]Advanced Embedded System AssistedGsmAndRfid Based Smartschool Management System.V. Sivasankaran, S. Muruganand, Azha.Periasamyinternational JournalOfAdvanced Research In Electrical, Electronics And Instrumentation Engineering Vol.2,Issue 7,July 2013.

[20] An Efficient Automatic Attendance System Using Fingerprint Reconstruction Technique.Josphineleela.R Research Scholar DepartmentOf ComputerScienceAndEngineering

[21] Sathyabamauniversity chennai,India Dr.M.Ramakrishnan Professor/Hod-It Velammal EngineeringCollege Chennai,India(Ijcsis) International JournalOfComputerScienceAnd