Centralized Source Code Management

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ABSTRACT

In this paper, Centralized Version Control of Data On Cloud Storage System a model for has been proposed for G.H.RAISONI COLLEGE OF ENGINEERING AND MANAGEMNET Campus and well as its Satellite Campuses. This paper is based on developing College Automation System based on Cloud Computing in order to reduce the manual paperwork. All the Activities of College will be managed at single platform in order to reduce the concurrency. Certain activities such as Placement, student's information, mini projects, every semster wise coding projects, News feed for students regarding the latest news in the university, Result display and Eligibility criteria all will be considered at single platform managed by Administrator, Faculty and Training and Placement officer (TPO). Normally Placement and Training Cell is known as the link which provides the connection between students and companies.

Keywords - *Version Control Systems; Distributed Version Control Systems; Centralized Version Control Systems; Software Development; Collaborative Development.*

I. INTRODUCTION

1). Our objective with this project is to develop a web based application of university automation so that all the work of college can be done without much of throughput from the faculty or people. Now-a-days every college consists of database where data of each student is managed.

Same database can be used in order to reduce the number of errors because this data is entered only after thorough verification. Student data such as name, marks, grade, unique id, contact number, previous grades all are already present in database so we can fetch it at ease in order whenever it is needed.

2).Unique id of student here will naturally act as primary key in database which will differentiate between students so that students can view only their own information and do not hinder with other student's entries and data. This makes the system highly reliable and secure.

3).Only after online authentication user will be provided access and only faculty can update the

records of students. In sense of placement after login only TPO can see the student information and companies that has put up their requirement. He can fetch the list of students based on their requirement and student's grades and our proposed system can easily generate the list. 4). Students can view their academic details and with provided news feed they can check what all events are currently going on and what preparation they can do based on requirements and even get the list of companies in which they are eligible. The interconnectivity among these modules reduces the time to perform different operational task.

II. LITERATURE SURVEY

For this project we have taken some guidance from the topics like

1).There are two different approaches to VCSs, which are the Centralized Version Control System (CVCS) and the Distributed Version Control System (DVCS) 1. CVCS is a centralized model with one central repository while DVCS is a distributed model without a central repository but has a local repository for every user.

2).The most commonly used CVCS tools are CVS and Subversion 2,3. Since the emergence of DVCS tools such as Git, Mercurial, Bazaar, and Bit Keeper, many open and closed source projects have been proposing to move or have already moved their source code repositories to a DVCS. 3).Fundamentally, DVCS is designed to act in both ways as it stores the entire history of the files on each machine locally21 and it can also sync the local changes made by the user back to the server whenever required, so that the changes can be shared with the whole team.

4).The project has been prepared based on available data provided by internet.

5).The real life situation can be little different depending on the circumstances.

6).The project is considered as not for profit. 7). The purpose of this project is to acts as a mediator between student and college staff.

8). The purpose of this project is to automate the existing system by the help of computerize equipment's and fullfledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with east accessing and manipulation of the same.

9).The required software and hardware are easily available and easy to work with. Centralized Version System ,as described above ,can lead to error free, secure, reliable and fast management system. 10).It can assist the student to concentrate on their Other activities rather to concentrate on record keeping.

11). Thus it will help organization in better utilization of Basically the project describes how to manage for good performance and Better services for the client.

III. PROPOSED SYSTEM

1). Providing Web Based Online website For a Centralized Version Control System also add courses for students.

2). Many students facing problem at the time looking out for jobs after completion of degree in resume

building, all four years mini projects, latest version of projects , external activities.

3). To show case achievement ,make good use of .it, benefit students with notices, library, articles ,procedure and soon. In this situation It is necessary to have its own website that is fully customizable and fully responsive which will support from small phones to I phones, Desktops, laptops Etc.

4).Also useful for training and placement department for filtering students according to theirs four years of academic data so in that

manner we design and develop the centralized version control of data on cloud storage system.

5). We are planning to make use of 3D Models and designs for our project which will be more attractive. 6). Many students not saving documents, their mini projects , semester wise coding projects, marksheets. successful

projects of senior students with latest versions may be helpful for junior students. 7).This system provides students the facility to access their academic information and their mini projects..
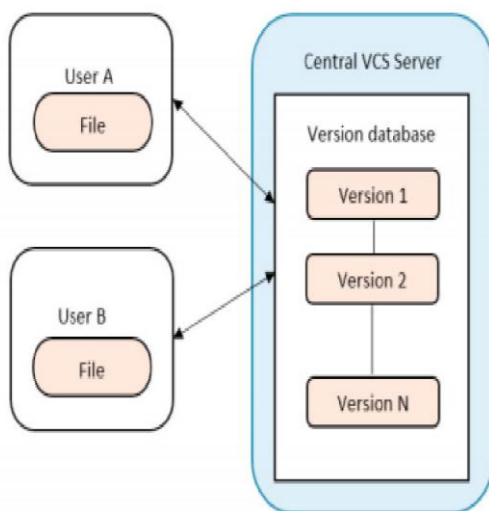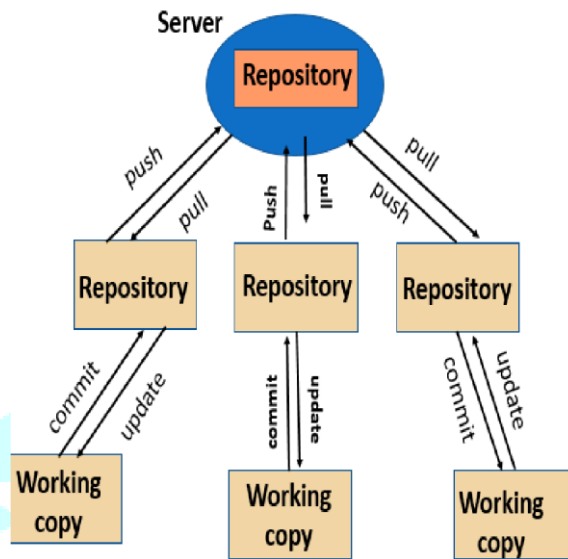

Fig. 3 Login Diagram

Fig. 4 Master Diagram

Fig. 1 Central VCS Diagram

8).Focus on how student gets comfortable while using having functions with group chats and also having sharing options.
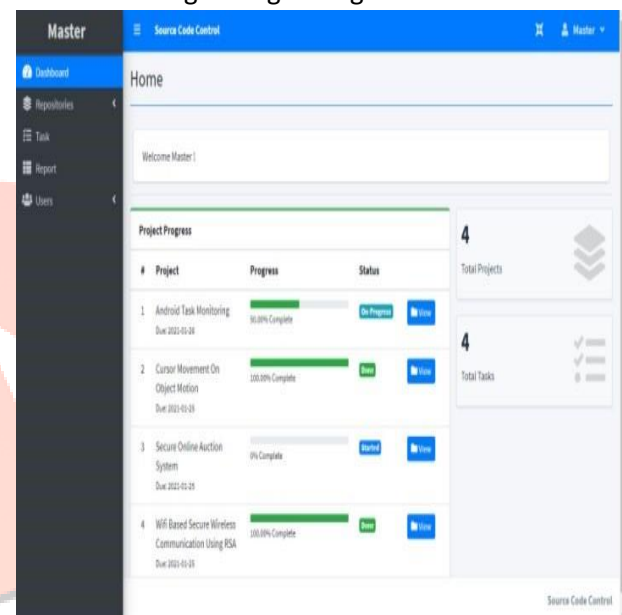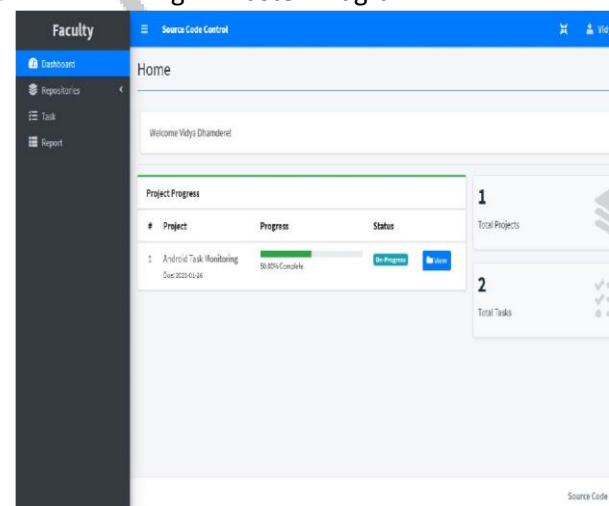

Fig. 5 Faculty Diagram

9).Design a system that helpful for training and placement department while placement timings .

Recruitment staff of companies filters students with their criteria.

10).Use this technology to avoid paper works , Hassle free for students for carrying data, gets latest versions of projects.

11).Provide error free projects while referencing junior students for implementation.

Fig. 2 DVCS Diagram

IV. RESULT

1) The proposed automated system is efficient and cost effective and saves a lot of time compared to existing systems.
2) Our system basically hopes in eradicating the problems which were a part of previous systems and provide a single platform.

V. CONCLUSION

Our system basically hopes in eradicating the problems which were a part of previous systems and provide a single platform solution for all of the college automation problems. In this system the chances of errors are very less compared to manual system and speed of process has also increased. Students will be able to get their hands on the study material much more easily and can concentrate on academics and improve their results.

The existent systems are not fully automated and are much time consuming for students as well as faculties. The proposed automated system is efficient and cost effective and saves a lot of time compared to existing systems.

VI. References

[1] Yoichiro Ueno, Noriharu Miyaho, Shuichi Suzuki,MuzaiGakuendai, Inzai-shi, Chiba,Kazuo Ichihara, "Performance Evaluation of a Disaster Recovery System and Practical Network System Applications," Fifth International Conference on Systems and Networks Communications,2010, pp 256-259.

[2] Chi-won Song, Sungmin Park, Dong-wook Kim, Sooyong Kang, "Parity Cloud Service: A Privacy-Protected Personal Data Recovery Service," International Joint Conference of IEEE TrustCom-11/IEEE ICESS-11/FCST-11, 2011.

[3] Y.Ueno, N.Miyaho, and S.Suzuki, "Disaster Recovery Mechanism using Widely Distributed Networking and Secure Metadata Handling Technology", Proceedings of the 4th edition of the UPGRADE-CN workshop, 2009, pp. 45-48.

[4] Y.Ueno, N.Miyaho, and S.Suzuki, "Disaster Recovery Mechanism using Widely Distributed Networking and Secure Metadata Handling Technology", Proceedings of the 4th edition of the UPGRADE-CN workshop, 2009, pp. 45-48.

[5] K. A. Anderson and B. H. Kirouac. A Simple and Free System for Automated Net- work Backups. In The Third Annual System Adminstration, Networking and Security Conference (SANS III), pages 63–68. Open Systems Conference Board, April 1994.

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[6] Yoichiro Ueno, NoriharuMiyaho, Shuichi Suzuki,MuzaiGakuendai, Inzai-shi, Chiba,Kazuo Ichihara, "Performance Evaluation of a Disaster Recovery System and Practical Network System Applications," Fifth International Conference on Emerging Trends in computer May 2016

[7] K. A. Anderson and B. H. Kirouac. A Simple and Free System for Automated Net- work Backups. In The Third Annual System Adminstration, Networking and Security Conference (SANS III), pages 63–68. Open Systems Conference Board, April 1994.

[8] K. A. Anderson and B. H. Kirouac. A Simple and Free System for Automated Net- work Backups. In The Third Annual System Adminstration, Networking and Security Conference (SANS III), pages 63–68. Open Systems Conference Board, April 1994.