College Bonafied Certificate Generator

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Abstract: *Today's world is moving towards digitization and automation, and we all even doesn't like to write letters, like getting permission for leave and request for Bonafide certificate and so on. As a first step we have thought to generate a Bonafide request letter for students those who needs Bonafide certificate, they have to fill the form available in the website. So that, the details of the student and the request letter will be generated automatically. It can be downloaded in a portable document format (pdf), so that we can reduce the time to write requisition letter, and even we can reduce the effort of writing a letter. php are used here, students to get a letter in downloadable portable document format (pdf).*

The College Bonafide Certificate Generator is a web-based system designed to simplify and automate the process of issuing bonafide certificates for students. In traditional college administration, generating such certificates involves manual paperwork, staff verification, and significant time delays. This project eliminates these inefficiencies by allowing students to request certificates online and enabling the administration to process and generate digitally signed certificates instantly. The system provides separate modules for students and administrators. Students can register, log in, and submit certificate requests, while administrators can verify details and approve requests through a secure portal. Once approved, the system automatically generates a personalized bonafide certificate in PDF format, which can be downloaded or printed. The use of PHP for backend logic and MySQL for database management ensures data security, reliability, and easy record maintenance.. .

Keywords: College Bonafide Certificate Generator, Web-Based System, Automation, PHP, MySQL, PDF Generation, Online   Certificate Request

I. INTRODUCTION

The main aim of this application is to create a user-friendly environment for students to get the certificate like bonafide online. In this page, the student can request for service by their login details.This project is controlled by admin. Admin will accept the request of the students and provide the services accordingly. Once the student request on the page using their login details that request can only be approved by admin. The student and signature cannot be copied because the access permission is only given to only admin.Bonafide certificate is provided by schools, colleges and institutions to authorize the person who is studying or working in the concern institution. This certificate ensures a good faith about the person. This certificate includes our name, father's name, position in the institution, belonging department, city, state, nationality.

This certificate can be used as an identity certificate in the required places. Bonafide can be used to authorize ourselves in other places like college competitions, so that our Bonafide tells that we are concerning to that institution, we can even give Bonafide certificate to banks to avail loans, there the bonafide certificate tells them that we are studying in the particular institution and this assures a good faith on us and make them sure we are not a fraud. Here we have made an automatic bonafide letter generation for the students who need bonafide certificate from the institution. The main aim of this application is to create a user-friendly environment for students to get the certificate like bonafide online. In this page, the student can request for service by their login details.This project is controlled by admin. Admin will accept the request of the students and provide the services accordingly. Once the student request on the page using their login details that request can only be approved by admin.

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II. OVERALL DESCRIPTION

2.1 Product Perspective:

The College Bonafide Certificate Generator is designed to simplify and automate the issuance of bonafide certificates for students. Instead of manually writing request letters, students can fill out an online form available on the website. Once the required details are entered, the system automatically generates a properly formatted request letter and bonafide certificate in Portable Document Format (PDF).This project has three modules:

1. Student Module
2. Administrative Module

1. Student Module

• Student Registration and Login
• Fill online form for bonafide certificate request
• Automatic generation of request letter
• Download certificate in PDF format

2. Administrator Module

• Secure Admin Login
• View and verify student requests
• Approve or reject applications
• Generate digitally signed bonafide certificates

Bonafied Generation System features

• Efficiency: Reduces administrative burden through automation and integration.
• Accessibility: Offers 24/7 access to essential services and resources.
• Transparency: Improves accountability and tracking across all modules.
• Engagement: Fosters communication and connection within the campus community.
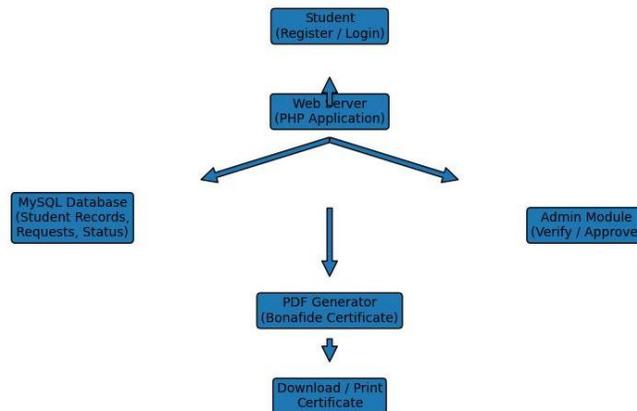
III. SYSTEM ANALYSIS

Figure 2.1: System architecture

IV. REQUIREMENT SPECIFICATIONS

4.1 Hardware Requirements:
Memory: 2 GB Hard Disk: 500 GB
Processor: Intel Core i3, i5

4.2 Software Requirements:
Operating System: Windows 10,11
Front Design: Sublime Text Editor Frontend Language: HTML, CSS, BOOTSTRAP
Backend Language: PHP, SQL (phpMyAdmin)

4.3 Features Requirements:
It saves time organizing different user.
It helps to control the problems that usually happening an daily life.
Online data submission is secure
It gives real-time results.

4.4 Reliability
If the university LAN goes down or the server goes down due to a hardware or software failure, the software will not be able to connect to the central database.

4.5 Availability
The application is only available to authorized users of the university. The teachers will be able to mark the student's attendance and display all the enrolled courses, whereas admin will be able to add and update student records and perform operations on various parameters.

4.6 Portability:
The software is a Windows-based application, written in Java and SQL(phpMyAdmin), so it is platform-independent and operating system independent.

V. DESIGN

5.1 Input design:

The input design is part of the overall system design and requires special attention. The input data design aims to make data entry simple and error-free. The input form is designed using the controls available in the Java framework. Input design is the process of converting user input into a computer-based format. System users interacting through the workstation must be able to instruct the system to accept inputs in order to generate a report.

5.2 Output Design:

Output Design of the given application "Car Rental System" generally refers to the results and informations that the system produces for many end users. Output is the main reason for developing a system and is the basis for assessing the usefulness of an application. The output needs to be attractive, convenient, and informative.

VI. PROJECT DESCRIPTION

6.1 Problem Definition:

In traditional college administration systems, obtaining a bonafide certificate is a manual and time-consuming process. Students are required to write request letters, submit physical applications, and repeatedly visit the administrative office for approval and collection. This process leads to delays, paperwork burden, and inefficiencies in record management.

VII. SYSTEM TESTING

After the source code is generated, you need to test the software and find (and fix) as many errors as possible before delivering it to your customers. Our goal is to design a set of cases that are likely to find bugs. Software techniques are used to reveal the error. These techniques provide a systematic guide for testing the internal logic of software components and the input and output domains of a program to design tests that reveal errors in program functionality, behavior, and performance. The internal program logic is executed using the white-box test case design technique. Software requirements are performed using the block box test case design technique. In both cases, the goal is to find the maximum number of errors with as little effort and time as possible.

VIII. SYSTEM MAINTAINANCE

Software Maintenance does a lot of things other than just finding bugs. You should be prepared for any changes in the environment that might affect one's computer or other parts of his/her computerized system. Such activities are commonly referred to as maintenance. This includes both improving system functionality and eliminating failures that occur when operating a new system.This may include the ongoing involvement of most of the resources of the computer department. The most crucial task of the application or existing system is to change the environment.

IX. CONCLUSION

The proposed system letter was successfully generated as per our aim. This can be upgraded in further. In future the application form can be directly sent to the person who is responsible in providing the certificates. And he can came to know that the student has sent the request for the bonafide. Even this can be updated as the request can be directly sent to the dean who can directly approve and provide bonafide for the student. The College Bonafide Certificate Generator System provides an efficient, secure, and userfriendly solution for generating bonafide certificates digitally. It minimizes manual effort, reduces paperwork, and saves time for both students and college administration. By automating the process, it ensures accuracy, transparency, and faster delivery of certificates. This system not only enhances the overall administrative efficiency but also contributes to the digital transformation of educational institutions. With future upgrades like QR code verification, e-signatures, and mobile app integration, the system can become even more reliable and convenient. Thus, it serves as an essential step toward a smart, paperless, and digitally empowered campus environment.

Scope of future development:

The project has a very large future scope. The project can be implemented on the intranet in future. The project is very much flexible in terms of expansion that it can be updated in the near future if needed. With the proposed Database Space Manager software ready and fully functional, customers have the ability to manage and perform multiple tasks in a much better, more accurate as well as error-free way.

REFERENCES

[1]. Pragati Pralhad Patil, Vishakha Mohan Lokare, T. Mohana Priya, Dr. M. Punithavalli, "AUTOMATIC STUDENTS BONAFIDE AND LEAVING CERTIFICATE APP", International Research Journal of Modernization in Engineering Technology

[2]. omayma husain, naomie salim, rose alinda alia, samah abdelsalam, ramayah thurasamy, hafiz muhammed faisal, and muzaffar hamzah, "Modeling Academic Research Collaborator Selection Using an Integrated Model", O. Husain et al., "Modeling Academic Research Collaborator Selection Using an Integrated Model," in IEEE Access, vol. 9, pp.102397 102421, 2021, 10.1109/ACCESS.2021.3096250.

[3]. Amrit Dhakal, Aryal, P. K, Ayres, P., Sawyer, W., and Dinham, "Dropout of Technical School Leaving Certificate: A case study of Nepal", International Journal of Advanced Research in Science and Technology, Int. J. Adv. Res. Sci. Technol. Volume 12, Issue 7, 2023, pp.1005-1017, journal homepage: www.ijarst.com Wild, T.A., van Schalkwyk, L., Viljoen, P. et al. A multi-species evaluation of digital wildlife monitoring using the Sigfox IoT network. Anim Biotelemetry 11, 13 (2023).

[4]. Saikumar Tara, B. Sai Deepthi, K. Stella Rani, K. Srilekha, and M. Mary Grace, "Platform ISSN : 2581-7175 ©IJSRED: All Rights are Reserved Page 1450 International Journal of Scientific Research and Engineering Development-– Volume 8 Issue 2, Mar-Apr 2025 Depended Certificate Generating Automatic System", Department of ECE, BVRIT Hyderabad College of Engineering for Women, Hyderabad, T.S, India, B. Raj et al. (Eds.): ICETE 2023, AER 223, pp. 790–796, 2023.

[5]. Ankit Kumar, Neeraj Varshney, Surbhi Bhatiya, Kamred Udham Singh, M. S. Mahmud, J. Z. Huang, S. Salloum, T. Z. Emara, and K. Sadatdiynov, "Replication-Based Query Management for Resource Allocation Using Hadoop and MapReduce over Big Data", BIG DATA

[6]. Besart Prebreza, Daniela Gotseva, Plamen Nakov, M. S. Gingie, M. Lam, "A STUDY OF DOCUMENTSMANAGEMENTSYSTEMBASED ONWEB,Casestudy:UNIVERSITY",October2021 DOI: 0.11 09/TELECOM53156.2021.9659663 Conference: 2021 29th National Conference with Internationalparticipation(TELECOM)

[7]. Rushikesh Basatwar1, Aakash Patil, Rushikesh Taiwade, Prateek Sahu, Prof. Priyadarshani Patil, "College Management System", International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

[8]. Mrs. Prithvi B S, Manoj V, Mallanagouda Ramatal, Mahantesh M S, Nithin J, "Document Management System for UndergraduateStudents", International Journal of Research Publication and Reviews

[9]. Yerramsetti Sri Uday Kiran Sai Mahesh, Velagapudi Rohith, Vennam Srinivas Reddy, Mrs.B. Ratnamala, Dr. Reddyvaari Venkateswara Reddy, "A review on Student Document Available at www.ijsred.com Management System based on Ethereum Blockchain (PERSONAL D)", Journal of Engineering International Research and Technology (IJERT)

[10]. Cesar Ortiz Cumpa A, Anibal-Romero B, H´ector Javier Bendez´u Jim´enez, "THE IMPACT OF DOCUMENT MANAGEMENT USING GOOD PRACTICES: A LITERATUREREVIEW", Intern. JournalofProfess.Bus.Review.