

Online Fee Challan Generation Project

A Project Work Synopsis

Submitted in the partial fulfilment for the award of the degree of

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Abstract

User Management: The system will have two types of users, i.e., admin and student. The admin will have access to all the functionalities, while the student will only be able to view their fee details and download the fee challan.

Fee Calculation: The system will calculate the fee based on the student's course, semester, and other applicable charges.

Fee Challan Generation: Once the fee is calculated, the system will generate a fee challan that can be downloaded by the student.

Fee Record Management: The system will maintain a record of all the fee transactions, including the amount received, the date of payment, and the mode of payment.

Notifications: The system will send notifications to the student regarding the due date of the fee and the amount due.

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1. INTRODUCTION

The project is a web-based application where the user can generate Challan to pay the fee. The system automates the conventional process of generating Challan by visiting the college website. The system would be having two logins: Admin and User Login. Admin can view student details and can even add or update things in their account this process helps students as well University.

1.1 Problem Definition

Paying college fees in terms of cash is big problem. There is problem in duplicate notes/currency while handling cash. Also cash counting machine is required. Paying fees with RTGS/NEFT/DD/Cheque is more costly*. Parents need not to take a leave from there Office routine, staying in queues to make Fee Payments in banks or School Fee Counters.

1.2 Problem Overview

Typically, this involves use of computer networks, the internet and Online Institute Management Systems

1.3 Hardware Specification

1. N/A

1.4 Software Specification

1. Visual Studio 1.73
2. M ySQL
3. Xampp
4. Windows 11

2. LITERATURE SURVEY

2.1 Existing System

1. Students have to fill out the fee challan form and visit the institution to make the payment.
2. Prone to errors: The manual fee collection process is prone to errors, as the administrative staff can make mistakes while processing the payment or updating the fee records, leading to confusion and disputes.
3. Lack of transparency: The manual fee collection process lacks transparency, as there is no way for students or parents to track their fee payments or check their fee records. This can lead to confusion and disputes between the institution and the students.
4. Additional workload for administrative staff: The manual fee collection process can be a significant workload for the administrative staff, as they have to manually process the payment, update the fee records, and issue receipts.

2.2 Proposed System

1. Through various payment modes, such as debit card, credit card, net banking, etc. This will save time for the students and eliminate the need to visit the institution to make the payment.
2. Automated fee challan generation: The proposed system will automatically generate fee challans for students based on the fee structure and payment details. This will eliminate errors in fee calculation and ensure that students are charged the correct amount.
3. Fee records management: The proposed system will maintain a central database of fee records, which can be accessed by students, parents, and administrative staff. This will provide transparency in fee records management and eliminate confusion and disputes.

4. Email and SMS notifications: The proposed system will send email and SMS notifications to students and parents regarding their fee payments, upcoming due dates, etc. This will help students and parents to keep track of their fee payments and avoid late payment penalties.
5. Reports and analytics: The proposed system will generate various reports and analytics on fee payments, pending payments, revenue generated, etc. This will help the administrative staff to analyze the fee collection process and make informed decisions.

2.3 Literature Review Summary (Minimum 7 articles should refer)

Year and Citation	Article/ Author	Tools/ Software	Technique	Source	Evaluation Parameter
2016	Jayanth Ns	Java, Jsp, Mysql	Web Development	IEEE	
2016	Prof. V. S. Tamboli	Java, Jsp. Mysql	Web Development	IJERT	
2022	Dr. Sudha L K	IOT, SQL, Python, PHP	Web Development, IOT	IJERT	

2017	Agarwal. R, Goyal. M	SQL, Python, VS Code	Web Development	IJERT	
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2018	Kaushik, S., & Suman, A.	SQL, Python, UI/UX CSS	Web Development, ML	IJCSM	
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2016	Gupta, S., Kumar, S., & Singh,	Java, Jsp MySQL	Web Development,	IJIRCCE	
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2018	Bhatia, A., & Vashist, R.	PHP, SQL, VS Code	Web Development	IJCSM	
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3. PROBLEM FORMULATION

1. The current fee collection process in educational institutions is inefficient, time-consuming, and prone to errors.
2. The lack of transparency in fee records management can lead to confusion and disputes between the institution and the students.
3. There is a need for an automated and hassle-free way of generating fee challans for students to reduce the administrative workload and streamline the fee collection process.
4. An online fee challan generation system can help educational institutions to eliminate errors in the fee calculation and generation process, provide transparency in fee records management, and improve the efficiency of the fee collection process

4. OBJECTIVES

1. To provide an automated and hassle-free way of generating fee challans.
2. To reduce administrative workload by automating the fee collection process.
3. To eliminate errors in the fee calculation and generation process.
4. To provide transparency in fee records management for both Institution.

5. METHODOLOGY

The Online Fee Challan Generation Project will be developed using the following technologies: Frontend: HTML, CSS, JavaScript, jQuery, and Bootstrap.

Backend: PHP and MySQL. Web Server: Apache

6.EXPERIMENTAL SETUP

Software:

1. Visual Studio
2. SQL
3. Xampp
4. Windows 11

7.CONCLUSION

The Online Fee Challan Generation Project aims to provide a solution to the problems faced by educational institutions in the manual fee collection process. The project proposes an online fee challan generation system that can automate the fee collection process, eliminate errors, and improve the efficiency of fee transactions. The system also provides transparency in fee records management, which can improve the satisfaction of both the institution and the students

8. TENTATIVE CHAPTER PLAN FOR THE PROPOSED WORK

CHAPTER 1: INTRODUCTION

The Online Fee Challan Generation Project is an online system designed to facilitate educational institutions to generate fee challans for students. It is a web-based application that automates the process of creating, managing, and tracking student fee records. This system will help institutions to reduce the administrative workload and streamline the fee collection process.

CHAPTER 2: LITERATURE REVIEW

In a study conducted by Kulkarni and Pimple (2015), it was found that the implementation of an online fee collection system resulted in significant improvements in the fee collection process. The system reduced the workload of the administrative staff, minimized errors, and improved the transparency of fee transactions.

CHAPTER 3: OBJECTIVE

1. To provide an automated and hassle-free way of generating fee challans.
2. To reduce administrative workload by automating the fee collection process.
3. To eliminate errors in the fee calculation and generation process.
4. To provide transparency in fee records management for both institution.

CHAPTER 4: METHODOLOGIES

The Online Fee Challan Generation Project will be developed using the following technologies: Frontend: HTML, CSS, JavaScript, jQuery, and Bootstrap. Backend: PHP and MySQL. Web Server: Apache

CHAPTER 5: EXPERIMENTAL SETUP

Software:

1. Visual Studio
2. SQL
3. Xampp

CHAPTER 6: CONCLUSION AND FUTURE SCOPE

The Online Fee Challan Generation Project will cover the following functionalities:

1. **User Management:** The system will have two types of users, i.e., admin and student. The admin will have access to all the functionalities, while the student will only be able to view their fee details and download the fee challan.
2. **Fee Calculation:** The system will calculate the fee based on the student's course, semester, and other applicable charges.
3. **Fee Challan Generation:** Once the fee is calculated, the system will generate a fee challan that can be downloaded by the student.
4. **Fee Record Management:** The system will maintain a record of all the fee transactions, including the amount received, the date of payment, and the mode of payment.
5. **Notifications:** The system will send notifications to the student regarding the due date of the fee and the amount due.

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