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Design and Development of Android Application “ClgPay”

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ABSTRACT

An android application which stores a basic information about a college student, which he/she will be able to access it through the college Id card by scanning the barcode. Through this application, the student will also be able to pay the college fees, and the library fees online.

Keywords: ClgPay, Firebase, Login Page, Student Homepage (shp).

1. INTRODUCTION

An e-commerce payment system facilitates the acceptance of electronic payment for online transactions. Also known as a sample of Electronic Data Interchange (EDI), e-commerce payment systems have become increasingly popular due to the widespread use of the internet-based shopping and banking. Increased security measures include the use of the card verification number (CVN) which detects fraud by comparing the verification number printed on the signature strip on the back of the card with the information on file with the cardholder issuing bank.[2] Also, online merchants have to comply with stringent rules stipulated by the credit and debit card issuers (Visa and MasterCard) this means that merchants must have security protocol and procedures in place to ensure transactions are more secure. This can also include having a certificate from an authorized certification authority (CA) who provides PKI (Public-Key infrastructure) for securing credit and debit card transactions. There are companies that enable financial transactions to take place over the internet, such as PayPal. Many of the me-diaries permit consumers to establish an account quickly and to transfer funds into their on-line accounts from a traditional bank account (typically via ACH transactions), and vice versa, after verification of the consumer's identity and authority to access such bank accounts. Also, the larger mediaries further allow transactions to and from credit card accounts, although such credit card transactions are usually assessed a fee (either to the recipient or the sender) to recoup the transaction fees charged to the intermediary. However, there are many other companies which help in making online transactions such as Paytm, free charge, phonepe etc. ClgPay application is an Android application which has the main purpose to make college payments online. Online payments such as college fees, library dues and also fill and send the exam form to the university. ClgPay application is built on android studio and it can scan the college id-card and display the information of the student such as the joining date and session also it can be used to make online transactions such as making payment of college fees and the library dues.

2. METHODS

In our proposed scheme there are various modules which are used to build our scheme.

- Scanner Module
- Authentication
- Payment Gateway

- **Scanner Module**

In this module the student will scan the barcode in the ID card.

- **Authentication Module**

In this module, the student will try to enter into their account using login id and verify using their password.

- **Payment Gateway**

In this module, the student can make payment of college fees and library dues.

3. CONCLUSION

This paper aims to make the payment system easier with an extra security feature of scanner. Hence, the students can make the payments through our application.

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