ATM Simulator System

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Abstract: The **"ATM Simulator System"** project is a model Internet Banking St. This site enables the customers toper form the basic banking transactions. The system provides the access to the customer to create an account, deposit/withdraw the cash from his account, also to view reports of all accounts present. The customers can access the bankswebsiteforviewingtheirAccountdetailsandperformthetransactionsonaccountas per their requirements. With Internet Banking, the brick-and-mortar structure of the traditional banking gets converted into a click and portal model, there by giving a concept of virtual banking a real shape. To develop a project for solving financial applications of a customer in banking environment to nurture the needs of an end banking user by providing various ways to perform banking tasks. Also, to enable the user's workspace to have additional functionalities which are not provided under a conventional banking project. This project has been developed to carry out the processes easily and quickly, which is not possible with the manuals systems, which are overcome by this software.

Keywords: Mysql, Java swing framework, Eclipse.

I. INTRODUCTION

ATMs or Automated Teller machines are something that everybody is aware of these days. ATMs are useful equipment that we all use to get cash from banks. They save us from waiting in long queues in banks for withdrawing cash from our bank accounts

The Traditional way of maintaining details of a user in a bank was to enter the details and record them. Every time the user needs to perform some transactions he has to go to bank and perform the necessary actions, which may not be so feasible all the time. It may be a hard-hitting task for the users and the bankers too. System project captures activities performed by different roles in real life banking which provides enhanced techniques for maintaining there quire din formation up to date, which results in efficiency.

ATM Simulator System enables the clients or customer of a bank to have access to their account without going to the bank. This is achieved only by development the application using online concepts.
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II. EXISTING SYSTEM

There is a prominent amount offer search have gone on ATM Simulator system, but every research has risen to any real-life solutions. For now, very few solutions are available those are:
- Basic atm transactions
- customer account creation
- proper authentication

III. PROPOSED SYSTEM

The description of the System design for the ATM simulator is given. Convenience in use is one of the primary requirements in case of ATM bank. Easy availability of machines also affects its use. Customer also uses ATM because they agree that its use is secured. The main problem from ATM is that its machine most at times goes out of cash. It also revealed that the use of ATM is highly increasing.
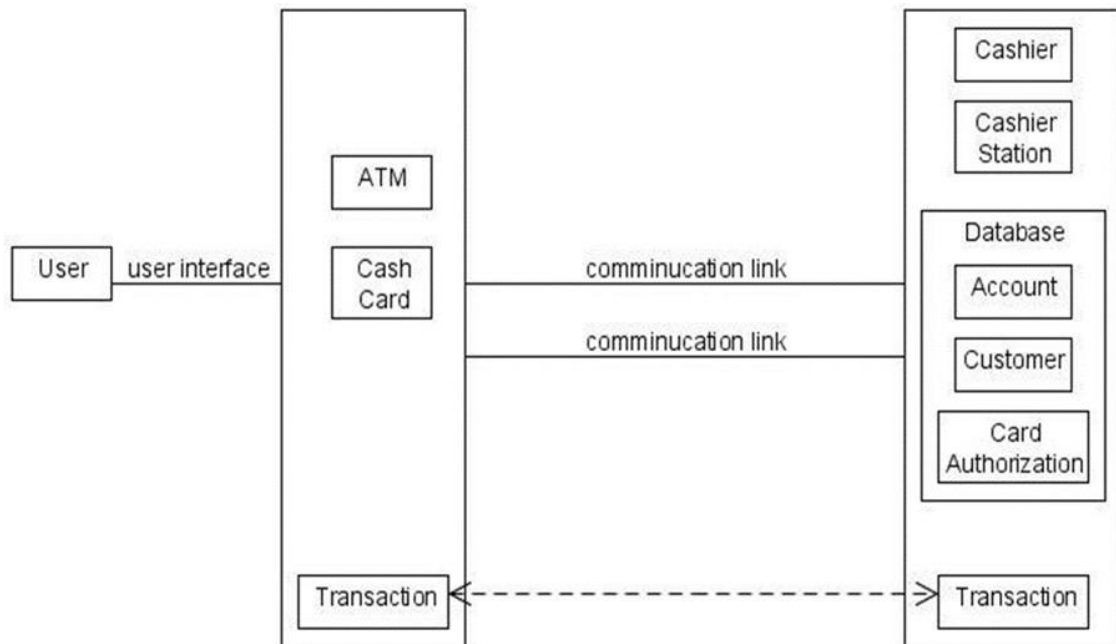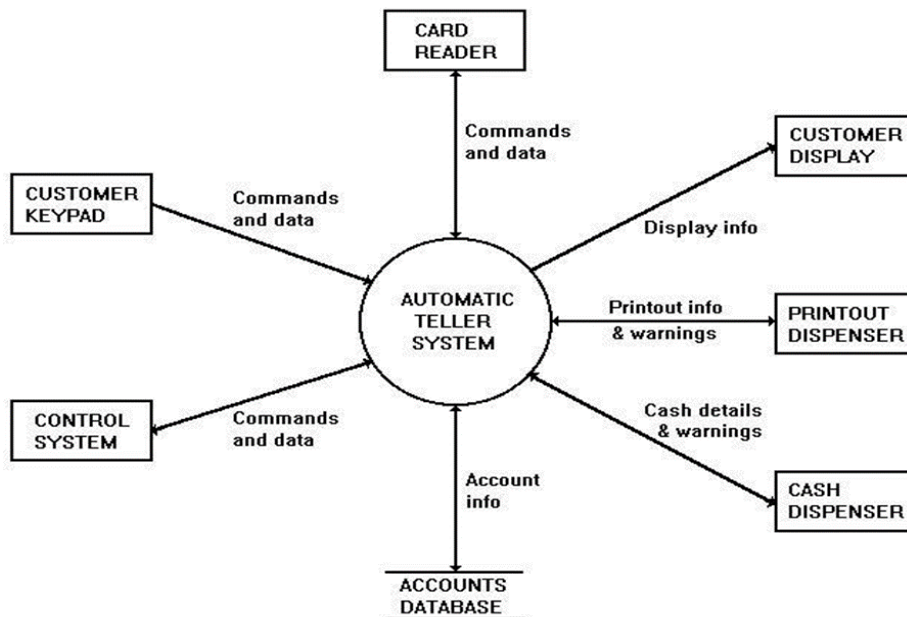
Fig. 1 Architecture Diagram

Workflow of the application

Fig. 2 Detailed Data Flow Diagram

Module Description:
Module-1: Customer Authentication

- Input–Customer card number and pin number
- Process–Verifies the Customer with the database
- Output–Successful access to Customer for Transactions

Module-2:Customer Account Registration

- Input-Customer credentials like name, Andhra number, pan number and other details
- Process-Verificationofcredentialsandsuccessfulstoringtothedatabase

- Output-Pass to the Account Details by Creating valid account

Module-3:Customer Account Details

- Input–Type of account and Services required
- Process–takes input of Customer and stores in the database
- Output–Providing card number and pin by random generator and depositing basicpay

Module-4:Customer Transactions

- Input–Transaction but tons and amount and pin changing option and mini statement
- Process–Checks them in balance that capable to do transaction
- Output–Transacted type and the amount that transacted and mini statement of total history transaction

IV. Outcome

The purpose of testing is to find errors. Testing is the process of discovering every possible fault or weakness in a work product. It provides a way to check the performances of components, assemblies, sub-assemblies, and a finished product. It is the process of utilizing software with the aim of ensuring that the software system meets its requirements, user expectations and does not fail in an inadmissible manner

Test Case ID	Feature Tested	Sample Input	Expected Output	Actual Output	Remarks(pass/fail)
1	Account Registration	Valid names With [a-zA-Z]*$	Successful storing of data	Successful storing Of data	Pass
				Other output	Fail
2	Account Registration	Valid date of birth>18years	Successful storing of data	Successful storing Of data	Pass
				Other output	Fail
3	Account Registration	Valid emailwith@gmail.com	Successful storing of data	Successful storing Of data	Pass
				Other output	Fail
4	Account Registration	Valid address details with [a-zA-Z]*$	Successful storing of data	Successful storing Of data	Pass
				Other output	Fail
5	Account Registration	Valid pan with [A-Z0-9]*$==10	Successful storing of data	Successful storing Of data	Pass
				Other output	Fail
6	Account Registration	Valid aadhar12 digit number	Successful storing of data	Successful storing Of data	Pass
				Other output	Fail

Test Case ID	Feature Tested	Sample Input	Expected Output	Actual Output	Remarks(pass/fail)
1	Customer Transactions	Deposit amount	Successful deposit	Successful deposit	Pass
				Other output	Fail
2	Customer Transactions	Withdrawal amount	Successful Withdrawal	Successful Withdrawal	Pass
				Other output	Fail

3	Customer Transactions	Mini statement	Getting mini statement	Getting mini statement	Pass
				Other output	Fail
4	Customer Transactions	Balance Enquiry	Getting Balance	Getting Balance	Pass
				Other output	Fail
5	Customer Transactions	Pin change	Successful pin change	Successful pin change	Pass
				Other output	Fail
6	Customer Transactions	Exit	Exit	Exit	Pass
				Other output	Fail

V. CONCLUSION

This project is developed to nurture the needs of a user in a banking sector by embedding all the tasks of transactions taking place in a bank. Future version of this project will still be much enhanced than the current version. Writing and depositing check sure perhaps the most fundamental ways to move money in and out of a checking account, but advancements in technology have added ATM and debit card transactions. All banks have rules about how long it takes to access your deposits, how many debit card transactions you're allowed in a day, and how much cash you can withdraw from an ATM. Access to the balance in your checking account can also be limited by businesses that place holds on your funds.

Banks are providing internet banking services also so that the customers can be attracted. By skiing the bank employs we came to know that maximum numbers of internet bank account holder share you than businessman. Online banking is an innovative tool that is fast becoming a necessity. It is a successful strategic weapon for banks to remain profitable in a volatile and competitive marketplace of today. If proper training should be given to customer by the bank employs to open an account will be beneficial secondly the website should be made friendlier from where the customers can directly make and access the recounts. Thus, the ATM Simulator System It is developed and executed successfully.

VI. FUTURE SCOPE

The ATM Simulator System is a big and ambitious project. I am thankful for being provided this great opportunity to work on it. As already mentioned, this project has gone through extensive research work. On the basis of there search work, we have successfully designed and implemented ATM Simulator System. To know what the future of online banking looks like, it's probably worth looking at the present–online banking isn't new. When you think of online banking, you probably think about a computer (either a desktop or laptop), a three or four step security process and then an interface that lets you view the balance of your various bank accounts and credit cards, whilst permitting you to transfer money and pay bills. And you're not wrong either. The most valuable future look share following below:

1-   More branches of the bank, maybe it will be international, that means more ATM machines outside.

2-   Customer issues development based on their needs, so the help desk will be aware of their needs and easy to use.

3-   Developing a mobile App for banking system that help users to do the obtained his operations without go to the bank only he needs to sign in using his A/C NO. And password and then use your own PIN. Finally the system will update automatically.

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