

Bank Management system

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Abstract – Bank management system can be consider as a most important thing in economic world.in the present scenario the banking sector is the common need in everyday life.in day to day life we face the problems and then we realize something is not done in this sector like we want to change the location (branch) of our account then we need to fill the application and then some day waiting to complete bank process. In this process amount of time is more as well as here occur manual work which is increases man power. Also in current scenario aadhar card linking is must with bank account and it is possible through the ATM but if in urgent we want to link aadhar it may be not possible there is no ATM are available in that case we provide this facility through the our project i.e. Bank management system.

Key Words: Virtual transaction, Transaction, Security system, computerization.

1. INTRODUCTION

The project entitled “Bank management system” is a computerized telecommunications device that provides the customers of a financial institution with access to financial transactions in a public space without the need for a human clerk or bank taller (manpower).

Thousands of bank performs millions of transactions every day and thousands of users used banking system in day to day life. As we know that if number of users increases us need more banks and more staff it means increasing manual work also we put more amount of money in bank it is more risky and not much secure. If we developed advanced computerized based banking system so there is no need to open more branches as well the manpower is reduce and maximum information are stored automatically in banking server.

Banking system requires authenticity and validity if a system provides these basic logics that mean we can developed a new system that authenticate and validate the user and user can do any type of virtual transaction any time anywhere in minimum amount of time. One of the most authentic codes i.e. the customer account number for recognition of any person. It always appear on and credit, withdraw, money transferring, linking aadhar with account and changing the account location in one branch to another branch in same bank. Day to day life banking system is most useful and important thing in economical world and which is very useful to develop country as well as economic power.

Transaction: in banking transaction is the execution of a program that performs an administrative or real time function, often by accessing shared data sources, usually on behalf of a banking users who have an account in the respective bank. This transaction executed by the program and it automatic do the transactions with balance and it check all conditions are satisfied or not in respective proses. This is the more secure and automatic process which do all the transaction with accuracy of calculation.

In our project we also provide the facility to link aadhar with account number and we also provide the facility to change location of account with branch that mean the user can change the branch which is convenient for it. They will also change or update data like address, mobile number using online banking system.

2. Literature survey/ related work

In [1], Information and communication technology (ICT) has helped to drive increasingly intense global Competition. In the world history the most of the countries are most developed because of they are financially very clear for how to use the high amount of money in the developing process in own country . We also use the SOA architecture for providing the scalable and reliable service therefor we studied related to the SOA architecture to know how we use to implementation process in our project using Service Oriented Architectures (SOA).we also refer the paper who give the case study information about Scandinavian bank and a Swiss bank This two banks are working on the basis of service oriented architecture for providing the service for the customer. SOA provides potential for greater organizational agility (and thereby competitiveness).

In [2], in the second paper we learn which type of problems are created in banking system during the different types of transactions. Here discuss about if any region the transaction may be fail then how to avoid it and fixed it. We also studied about Firms in Italy defaulted more against banks with high levels of past losses. This `selective' default increases where legal enforcement is weak. Poor enforcement thus can create a systematic transaction risk by encouraging banking users to defaulted masse once the continuation value of their bank relationships comes into doubt. In banking sector the security also must and when we talk about money or property this case is more sensational then we found the security is the major thing to do in banking system.

In our project we provide the security questions when customer login with account to prevent the fraud and provide the best security in the bank management system.

3. Proposed System

The proposed system is highly computerized in which the data related to user accounts will be secured high with high accuracy that even reduced the machine damage and human made errors and this existing system is highly efficient to offer best services to the customers as well as bank because it has user friendly access that customers less time when compare with a normal banking system.

When the data is entered it will check for its validity. Appropriate messages are provided as when needed so that the user will not be in a maize of instant.

The data entry screen is design such a way that all the data manipulates can be performed, it also provide record viewing facilities.

Our Project developing as per the below figures. In the below fig (a) this project is use for online banking system, the user can register first and then login. When user login successfully they will perform the operation like money withdraw, money transfer, deposit, aadhar link with own account, transfer account in one location to another location etc.

Admin has all authority to handle all the user account and transactions in a sequence to avoid unauthorized user.

Costumer can update his data like address, contact number etc. as well as they link aadhar number with own account number using online banking system. User can transfer money, deposit money, withdraw and check account balance through online banking system.

In Bank management system we use n-tier architecture which is helpful to handle different tasks in fluently and sequential order.

We use following architecture for the project are:

- [1]MVC architecture for Presentation layer
- [2]SOA architecture for Service layer
- [3]Design Pattern for data access layer
- [4]Entity framework for Data access layer

Here we work in order of Bottom-Up approach.

The flow of working of the project as shown in below diagram:

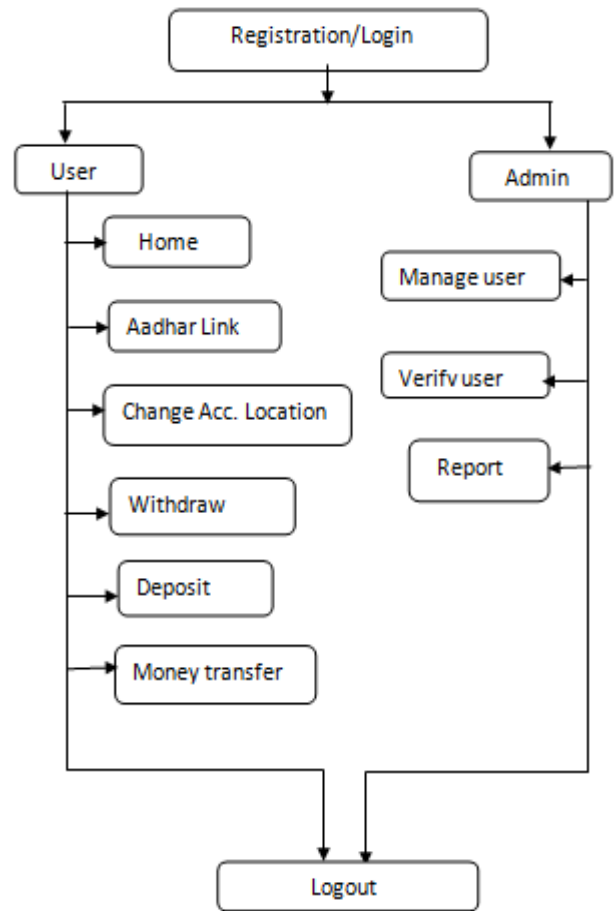


Fig (A): Bank Management system

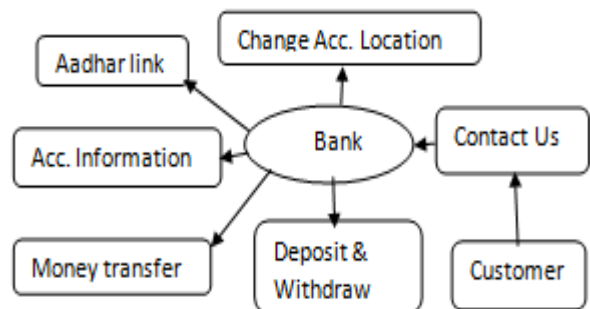


Fig. Mind map for bank management system

4. CONCLUSIONS:

Bank management system is a virtualization of transactions in banking system. The banking system are used manual working but when we used online banking system it is totally virtualization process which avoid manual process and converts it in automatic process . If user can make a transaction in bank management system it is available in any were also user can link aadhar with account, change branch location easily. Bank management system is saving the time with accuracy than bank manual system.

REFERENCES:

[1] Fabio Schiantarelli, Massimiliano Stacchini, Philip E. Strahanz Bank Quality, Judicial Efficiency and Borrower Runs: Loan Repayment Delays in Italy August 2016

[2] Richard Baskerville, Marco Cavallari, Kristian Hjort-Madsen Jan Pries-Heje, Maddalena Sorrentino Extensible Architectures: The Strategic Value of Service Oriented Architecture in Banking 2005

[3] "Safe Internet Banking" GoBankingRates.FDIC, 2016-01-11. Retrieved 2016-07-20.

[4] Cronin, Mary J. (1997). Banking and finance on the internet, John Wiley and Sons. ISBN 0-471-29219-2 page 41 from banking and finance on the internet retrieved 2001-07-10

[5] "The Home Banking Dilemma" Retrieved 2008-07-10.

[6] "Computer Giants Giving a Major Boost to Increased Use of Corporate Videotex". Communications News. 1584. Retrieved 2008-07-10.

[7] Security Flaws in Online Banking Sites Found to be Widespread Newswise, Retrieved on July 23, 2008.