

DESIGN AND IMPLEMENTATION OF ONLINE EJB BANK SYSTEM USING JAVA

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Abstract: *Online Banking system is a convenience and helps in getting Banking services available to the customers always 365 days per year and 24 hours per day without any shutdowns. The system is also developed in a 3 Tier Enterprise architecture which makes the system more secure, scalable and extensible. The system has all the essential modules of a bank like Transaction processing, Customer Registration, Account Management, and Transaction History & Audit Trail.*

Keywords: *service, customer, secure.*

I. INTRODUCTION

The portal has 2 user types namely Bank Officer or Teller of the bank and the Customer. The security and data privacy is at the core of the design of the portal, data can be accessed only by registered users and they can only access data that is relevant to them. The authenticated applicant will get access to the bank account. The customer who wants to register themselves for a new bank account can fill the Form which includes several fields like initial deposit amount, age, gender, address, etc. When the Applicant is accessing the portal the first time, then he/she should enter the complete details in the user Registration page. The account opening data submitted by the applicants will be viewed by the Verification officer from the bank, they go through all the details. Once the officer verifies the details, the officer will approve the account. If the details are found not correct, the officer can reject the application. All the status updates will be notified to the concerned users through email. This project is only applicable for Account Registration, Currency exchange and transaction processing.

II. RELATED WORK

A. Purpose of the document

The project gives real life understanding of online banking system and activities performed by various roles in the supply chain.

B. Scope of the project

The scope of the project is applicable only for banks. Fast and Secure transaction inputs. Transaction history and audit trail.

III. EXISTING SYSTEM

Without online banking the system used to be completely manual, laborious and time consuming for the customers as well as the banking offices. The verification process is also completely manual, transactions used to take long time to be processed.

IV. PROPOSED SYSTEM

We eliminate the manual process by completely digitising the system. The online system makes the availability of the application details any time anywhere with ease of use and also provides easy and secure storage with access restrictions

V. REQUIREMENTS AND SPECIFICATIONS

A. Functional Requirements

- The System will provide the transaction facilities.
- The system will provide the Deposit and Withdraw of money with their information.
- The system will provide the maintenance of database and their monthly report.
- The system should be giving minimal and relevant data only to the users

B. Non-Functional Requirement

- Availability: Application should be available for 24*7.
- Security: Authenticated users can access information and can change their own data.
- Reliability: Accurate information about customer is provided.
- Maintainability: Ease of use should be high.

C. Minimum Hardware Requirements

- Server: 1 CPU Core with 1 GB RAM with static IP/Public DNS Static
- Client: 1 CPU Core with 1 GB RAM
- Hard disk: 128 GB and above

D. Software Requirements

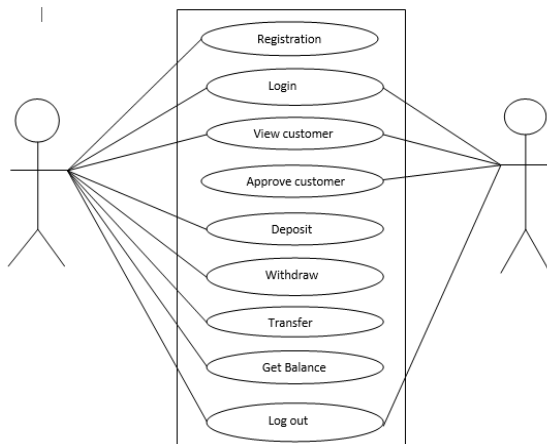
- Server Operating System: Linux Server
- Webserver : Apache 2.0
- Server Scripting : J2EE(Spring), PHP5
- Database Server : MySQL
- Client Operating System: Lunux Desktop/Windows Desktop OS
- Client Browser Requirement: IE7, Firefox 23, Chrome

VI. SYSTEM DESIGN

USECASE DIAGRAM

A use case diagram is a graph of actors, a set of use cases enclosed by a system boundary, communication associations between the actors and users and generalization among use cases.

LOGIN:



Module 1 Administration

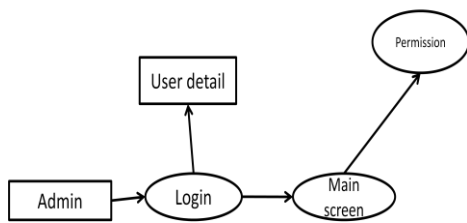
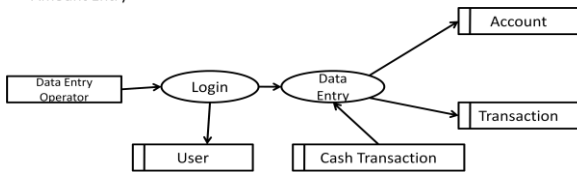


Fig 5.2 DFD for administration

Amount Entry



Amount Verify

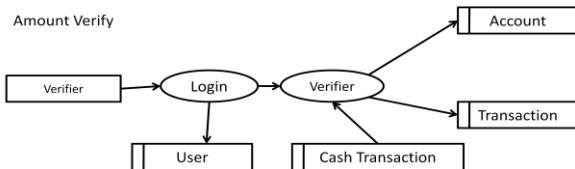
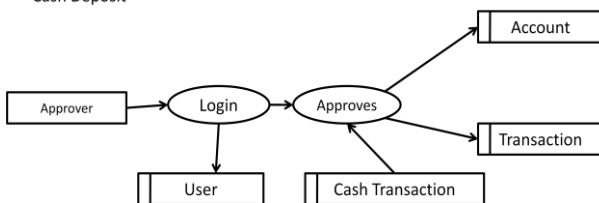


Fig 5.3 DFD for amount entry & verify

Cash Deposit



Stop Payment

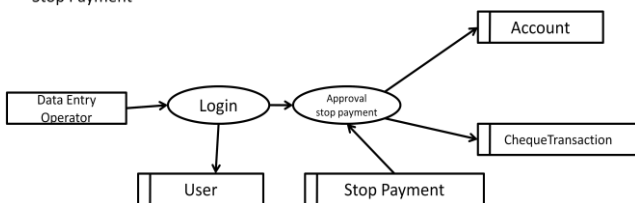
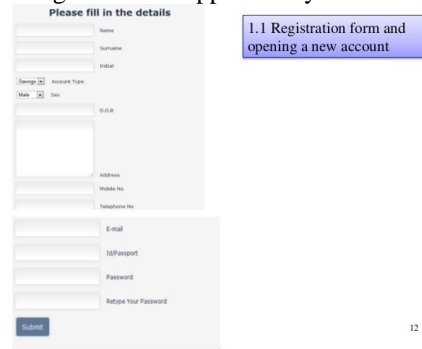


Fig 5.4 DFD for cash deposit and stop payment

VII. VI RESULTS

The Online Banking System result is where admin gets log in and the user registration is approved by the admin.



VIII. CONCLUSION

The application demonstrate the way to develop an online banking system by using interactive web application by using JSP, servlet with more secure way to access. This means the application server easily deployable and accessibly.

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