MINI PROJECT

(2021-22)

"Bank Management System"

Project Report

Institute of Engineering & Technology

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Declaration

I hereby declare that the work which is being presented in the Bachelor of technology. Project **"Bank management system"**, in partial fulfillment of the requirements forthe award of the ***Bachelor of Technology*** in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of my own work carried under thesupervision of **Mr. Sharad Gupta, Technical Trainer, Dept. of CEA,GLA University.**

The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree.

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Certificate

This is to certify that the project entitled “Bank Management System”, carried out in Mini Project – I Lab, is a bonafide work by Radhika Tiwari is submitted in partial fulfillment of the requirements for the award of the degree Bachelor of Technology (ComputerScience & Engineering).

Signature of Supervisor:

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ACKNOWLEDGEMENT

Presenting the ascribed project paper report in this very simple and official form, I would like to place my deep gratitude to GLA University for providing us the instructor Mr Sharad Gupta, our technical trainer and supervisor.

He has been helping me since Day 1 in this project. He provided me with the roadmap, the basic guidelines explaining on how to work on the project. He has been conducting regular meeting to check the progress of the project and providing me with the resources related to the project. Without his help, I wouldn't have been able to complete this project.

And at last but not the least I would like to thank my dear parents for helping me to grab this opportunity to get trained and also my colleagues who helped me find resources during the training.

Thanking You

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ABSTRACT

The bank account management system is an application to maintain your account in the bank. In this project, I tried to show how a bank account system works and cover the basic functions of a bank account management system. Build a project that addresses customer financial applications in a banking environment to meet the needs of the banking end users by providing different ways of performing banking tasks. In addition, to allow the user's workspace to have additional functionalities not foreseen in a typical banking project. The bank account management system is implemented as a project based on relevant technologies. The main objective of this project is to develop software for the bank account management system**.** This project is developed to make the processes easy and fast, which is not possible with this software. This project is developed in Java language and uses MYSQL for the connection to the database. Creating and managing requirements is a challenge for IT, systems, and product development projects, or really for any business where you need to manage a contractual relationship. The organization must define and effectively manage requirements to ensure they meet customer needs, while demonstrating compliance and on time and on budget.

The impact of a poorly expressed requirement can bring a business out of compliance or even cause injury or death. Requirements definition and management is an activity that can deliver a high, fast return on investment. The project analyzes the system requirements and then comes up with the requirements specifications. It studies other related systems and then come up with system specifications. The system is then designed in accordance with specifications to satisfy the requirements. The system is designed as a content and interaction management system.

The content management system takes care of data entry, validation and updates while the interactive system manages the system's interaction with administration and users. As such, the above features of this project will save transaction time and thus increase the efficiency of the system.

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CHAPTER-1

INTRODUCTION

The "Bank Account Management System" project is an Internet banking website template. This website allows customers to perform basic banking transactions while sitting at their desk or at home via a PC or laptop. The system allows the customer to create an account, deposit / withdraw money from their account, as well as view statements for all existing accounts. The Client can access the bank's website to consult the details of his Account and carry out transactions on the account as requested. With Internet Banking, the traditional structure of traditional banking is transformed into a click and portal model, thus bringing the concept of virtual banking to life. Today's banking is therefore no longer limited to branches. Ebanking makes banking transactions easier for customers around the world

The main objective of this “Bank Account Management System” is to provide an innovative design methodology that anticipates future expansion and modification, which is essential for a core area of expertise like a bank. This requires the design to be extensible and modifiable, so a modular approach is used to develop application software. Anyone with an account in this bank can become a member of the bank account management system. He must complete a form with his personal data and his account number.

A bank is a place where customers feel a sense of security for their assets. In a bank, customers deposit and withdraw their money. Money trading is also a part that customers take refuge in banks. Currently, in order to maintain the trust and credibility of the customers, it is very important to have the activity of the management of the bank, to be able to manage everything in the most comfortable and simple way. Fluid and efficient management indirectly affects customer and employee satisfaction. And of course, he encourages the board of directors to make some decisions necessary to improve the bank in the future.

SYNOPSIS :

The bank account management system keeps a record of the daily count as a complete banking system. It can store information about account type, account opening form, deposit, withdrawal and search of transactions, transaction reports, individual account opening form, group account. The existing part of this project is; it displays transaction reports, statistical summary of account type and interest information.

AIM OF THIS PROJECT :

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MAIN PURPOSE :

The bank account management system keeps a record of the daily count as a complete banking system. It can store information about account type, account opening form, deposit, withdrawal and search of transactions, transaction reports, individual account opening form, group account. The existing part of this project is; it displays transaction reports, statistical summary of account type and interest information.

GOALS AND OBJECTIVES :

1. Our motto is to develop software to manage the entire banking process linked to accounts. Manage accounts receivable and keep track of every track of assets and various transaction processes in an efficient manner.

2. As a result, our main goal is customer satisfaction since today's world is faster.

3. Our software will perform and fulfill all the tasks that any customer would desire.

4. It helps the customer to be satisfied and comfortable in his choices, this protection contains customer’s account, money and his privacy.

5. Client doesn't need to go to the bank to do small operation and hence it will save time for customers.

CHAPTER -2

MODULES DESCRIPTION:

ADMIN MODULE :-

The admin module has several features like all permissions that they have and can do anything from customers and staffs. Employees in the bank are given all permissions to do their jobs even in the presence of customers. Then the company will be able to easily share the benefits of their product with their users.

STAFF MODULE:-

Bank employees are given more access permissions than administrative staff. Both have the same features - work just watches employees' activities and transactions. Staff work requests are like approving customers, account opening requests, and helps to deposit cash from the bank.

CUSTOMER MODULE:-

Customers have no extra added permissions. They can only view their transactions and download their transaction statement, check their account balance and request a debit card.

There are other features and actions which will be performed on a back account but we aren't getting to look at bank accounts in their entirety only the basics, this way we avoid over complicating the exercise. The aim of this whole exercise is to point out the usefulness of object oriented programming as opposed to really wanting to create a banking system.

Banking Methods :

1. We need to be able to generate an account number.
2. Account types : saving and current.
3. Maintain / update balance.
4. Open / close account.
5. Withdraw / deposit.

HARDWARE AND SOFTWARE REQUIREMENTS

Hardware Requirement

- Processor : INTEL CORE i5
- Operating System : WINDOWS 10
- RAM : 4GB
- Hardware Devices : COMPUTER SYSTEM
- Hard disk : 64GB

Software Requirement

- Technology Implemented : JAVA WITH MYSQL
- Language Used : JAVA
- Database : MYSQL
- Web Browser : Chrome / Edge

CHAPTER- 3

SOFTWARE DESIGN

SYSTEM DESIGN :

Design is that the initiative into the event phase for any engineered product or system. Design may be a creative process. an honest design is that the key to effective system. The term “design” is defined as “the process of applying various techniques and principles for the purpose of defining a process or a system in sufficient detail to allow its physical realization”. it's going to be defined as a process of applying various techniques and principles for the aim of defining a tool , a process or a system in sufficient detail to allow its physical realization. Software design sits at the technical kernel of the software engineering process and is applied regardless of the development paradigm that is used. The system design develops the architectural detail required to create a system or product. As within the case of any systematic approach, this software too has undergone the best possible design phase fine tuning all efficiency, performance and accuracy levels. The planning phase may be a transition from a user oriented document to a document to the programmers or database personnel.

LOGICAL DESIGN :

The logical flow of a system and define the boundaries of a system. It includes the subsequent Prepares output specifications –

1. Reviews the current physical system – its data flows, file content, volumes, frequencies etc.

2. Prepares a logical design Specifies the implementation plan. Prepares edit, security and control specifications.

3. Prepares input specifications – format, content and most of the input

functions.

4. Determines the format, content and frequency of reports rehearse of the knowledge Reviews benefits, costs, target dates and system constraints flow, output, input, controls and implementation plan.

PHYSICAL DESIGN :

Physical system produces the working systems by define the planning specifications that tell the programmers exactly what the candidate system must do. It includes the subsequent steps.

1. Design the physical system.
2. Specify input and output media.
3. Design the database and specify backup procedures.
4. Design physical information flow through the system.
5. Prepare a conversion schedule and target date.

CHAPTER 4

TERMS OF SERVICES

GENERAL INFORMATION :

1.We invite you to go to your account at the web page often for transacting enterprise or viewing account balances. If you consider that ant facts referring to your account has a discrepancy, please deliver it to the attention of the department through email or letter.

2. Normally BAMS Bank services will be open to the customer only after he/she recognizes the receipt of password.

3. In a joint account, all account holders are entitled to register, as customers of BAMS Bank, however transactions might be authorized primarily based totally at the account operation rights recorded on the branch.

SECURITY TERMS :

1.The User-id and Password given with the aid of using the department should get replaced with the aid of using User Name and Password of customer's preference on the time of first log-on. This is mandatory.

2. You are welcome to access BAMS Bank from anywhere anytime. However, as a rely of precaution, clients might also additionally keep away from the usage of PCs with public access.

3. There is no manner to retrieve a password from the system. Therefore if a client forgets his/her password, he/she should method the department for re-registration.

DO's AND DON'Ts :

1. The client must keep his/her User ID and password strictly confidential and must

now no longer disclose the identical to some other person. Any loss sustained via way of means of the client because of non-compliance of this situation may be at his/her very own chance and obligation and the Bank will now no longer be responsible for the identical in any manner.

2. The customer is loose to pick out a password of his/her personal for BAMS Bank services. As a precaution a password this is commonplace in nature, guessable or inferable non-public records consisting of name, address, smart phone member, using license, date of delivery etc. is great avoided. Similarly it is a superb exercise to dedicate the password to reminiscence as opposed to writing it down somewhere.

3. It won't be secure to depart the pc unattended at some stage in a legitimate session. This may supply get entry to for your account records to others.

SAFE ONLINE BANKING TIPS :

1. URL address on the address bar of your internet browser begins with "https"; the letter’s at the end of "https" means 'secured.
2. Do not enter login or other sensitive information in any pop up window.
3. Look for the padlock symbol either in the address bar or the status bar (mostly in the address bar) but not within the web page display area. Verify the security certificate by clicking on the padlock.
4. Do not enter login or other sensitive information in any pop up

window.

5. The address bar has turned to green indicating that the site is secured with an SSL Certificate.

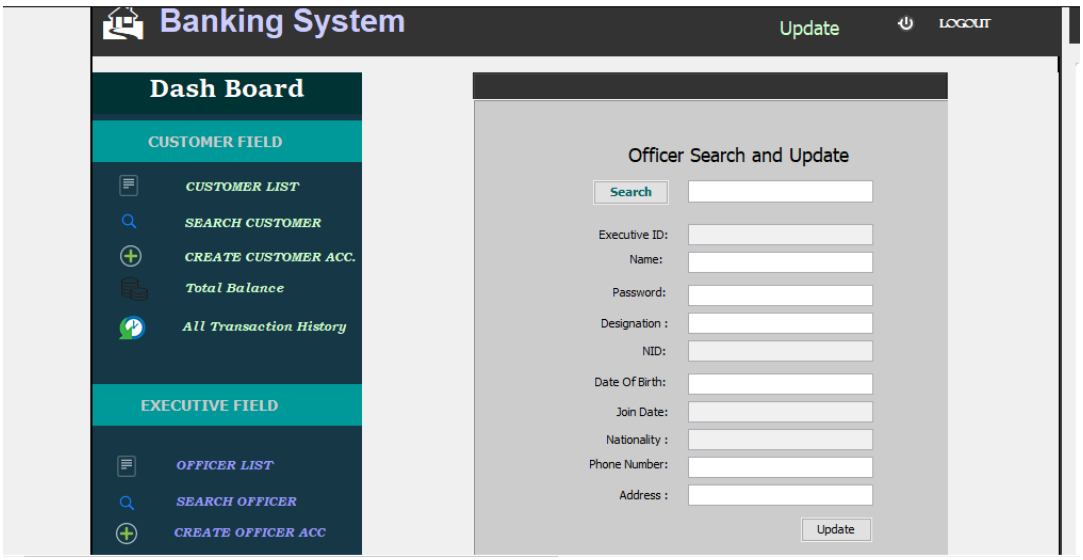
BEWARE OF PHISHING ATTACKS :

- Phishing is a fraudulent attempt to obtain personal or sensitive information, usually via email, phone, SMS, etc.
- Such email / SMS or phone is an attempt to fraudulently withdraw funds from your account using internet banking**.** Never reply to such emails / SMS or phone calls.
- Change your internet banking password regularly.
- After logging in, be sure to check the date and time of your last login on the page.

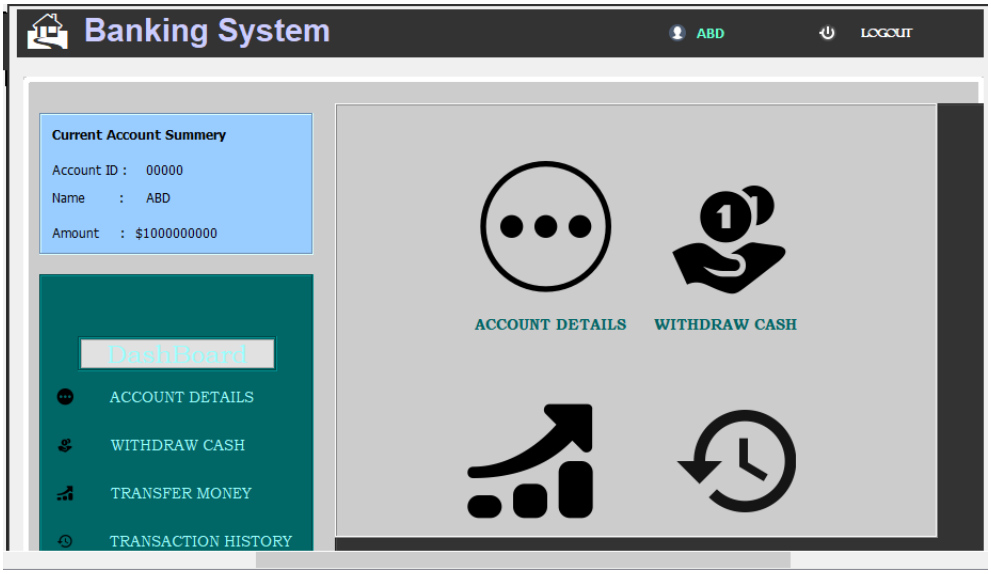
CHAPTER 5

SAMPLE SNAPSHOT OF PROJECTS:

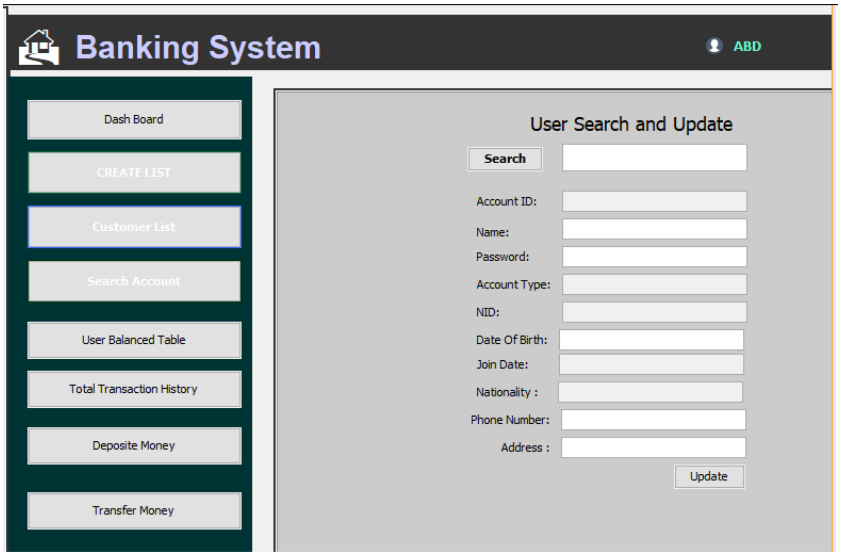
DASHBOARD OF PROJECT :-



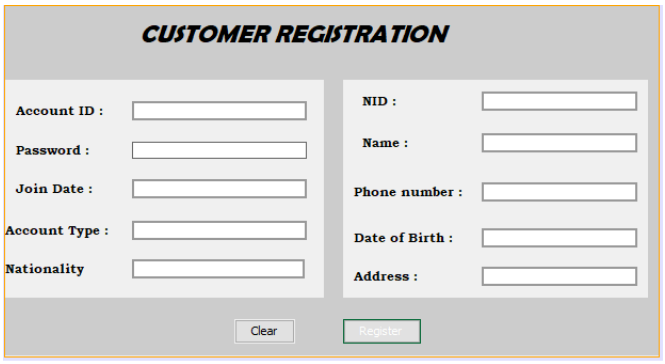
ACCOUNT DETAILS :-



USER FORM AND UPDATE :-



CUSTOMER REGISTRATION :-



CHAPTER 6

CONCLUSION

BENEFITS OF ONLINE BANKING :-

Many of us live a busy life. Some of us are preparing ourselves before dawn, so families can prepare for the day. We hurry to work, hurry to

take our kids to school, and at the end of the day we hurry home to prepare for the next day. After a busy day, the last thing you want to do is to queue up even at banks and post offices. This is where online banking comes in. Many of the benefits of our online banking are clear:

- You don't have to be in line.
- You don't have to plan your day around the bank's business hours.
- You can check your balance at any time**,** not just when you receive your bank statement.

MOST AVAILABLE BENEFITS :-

1. Online banking with Key Bank is fast, secure, convenient and free.
2. Fast and easy authenticated access to your account through a web application.
3. Improved data security and restricted unauthorized access.
4. Minimize storage space.
5. Global, company-wide access to information.

FUTURE LOOK :

"Banking Online System" is a large and ambitious project. I am grateful for this wonderful opportunity to work on it. As mentioned earlier, this project has undergone extensive research. Based on the research work, we have successfully designed and implemented an online banking system. It's worth looking at the present to see what the future holds for online banking. Online banking is not new. When thinking about online banking, you probably think of a computer (desktop or laptop), a three- or four-step security process, and an interface that allows you to check your various bank account and credit card balances. Allows remittances and invoice payments. And you're not wrong either.

Below are some of the most valuable looks of the future:

- More branches of the bank, maybe it will be international, which means more ATMs are outside.
- Customers publish developments based on their needs so that the help desk understands their needs and is easy to use.
- When developing a mobile app for a banking system that allows users to perform received operations without going to the bank, all he has to do is log in with his A / C number. log in. Then enter the password and then use your own PIN. Finally, the system will be updated automatically.

CONCLUSION :

This project is designed to meet the needs of users in the banking sector by incorporating all the tasks of a transaction into a bank. Future versions of this project are much better than the current version. Check writing and depositing are the most basic methods of sending and withdrawing money from checking accounts, but advances in technology have added ATM and debit card transactions. All banks have rules regarding the time it takes to access deposits, the number of debit card transactions allowed per day, and the amount of cash that can be withdrawn from an ATM. Access to the funds in your checking account may also be restricted by the company withholding the funds. Banks also offer internet banking services to attract customers.

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 first time customers can directly make and access their accounts.

This is a successful way to develop and implement a bank management system.

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