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BANKING MANAGEMENT SYSTEM

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ABSTRACT—
The Bank Account Management System is an application for maintaining a person's account in a bank. In this project I tried to show the working of a banking account system and cover the basic functionality of a Bank Account Management System. To develop a project for solving financial applications of a customer in banking environment in order 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.
The Bank Account Management System undertaken as a project is based on relevant technologies. The main aim of this project is to develop software for Bank Account Management System. 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. This project is developed using PHP, HTML language and MYSQL use for database connection. Creating and managing requirements is a challenge of IT, systems and product development projects or indeed for any activity where you have to manage a contractual relationship. Organization need to effectively define and manage requirements to ensure they are meeting needs of the customer, while proving compliance and staying on the schedule and within 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 design is then implemented with MYSQL, PHP and HTML. The system is designed as an interactive and content management system. The content management system deals with data entry, validation confirm and updating whiles the interactive system deals with system interaction with the administration and users. Thus, above features of this project will save transaction time and therefore increase the efficiency of the system.

1. INTRODUCTION

The "Bank Account Management System" project is a model Internet Banking Site. This site enables the customers to perform the basic banking transactions by sitting at their office or at homes through PC or laptop. 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 banks website for viewing their Account details and perform the transactions on account as per their requirements. With Internet Banking, the brick and mortar structure of the traditional banking gets converted into a click and portal model, thereby giving a concept of virtual banking a real shape. Thus today's banking is no longer confined to branches. E-banking facilitates banking transactions by customers round the clock globally.
The primary aim of this "Bank Account Management System" is to provide an improved design methodology, which envisages the future expansion, and modification, which is necessary for a core sector like banking. This necessitates the design to be expandable and modifiable and so a modular approach is used in developing the application software. Anybody who is an Account holder in this bank
can become a member of Bank Account Management System. He has to fill a form with his personal

details and Account Number.

1.3 Objectives

The main aim of designing and developing this Internet banking System PHP primarily based Engineering project is to provide secure and efficient net banking facilities to the banking customers over the internet. Apache Server Pages, MYSQL database used to develop this bank application where
all banking customers can login through the secured web page by their account login id and password.
Users will have all options and features in that application like get money from western union, money
transfer to others, and send cash or money to inter banking as well as other banking customers by simply adding them as payees.

1.4 Needs of BANKING MANAGEMENT SYSTEM

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 3 and perform the necessary actions, which may not be so feasible all the time. It may be a hardhitting task for the users and the bankers too. The project gives real life understanding of Online Banking System and activities performed by various roles in the supply chain. Here, we provide automation for banking system through Internet. Online Banking System project captures activities performed by different roles in real life banking which provides enhanced techniques for maintaining the required information up-to-date, which results in efficiency. The project gives real life understanding of Online Banking System and activities performed by various roles in the supply chain.

1.5 Functionalities

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1.6 Features

• User registration for online banking if not register.
• Adding Beneficiary account by customer.
• Transferring amount to the local customer account number.
• Admin must approve the user account activation before it can be used and transferring
funds, view statement history.
• Customer gets to know his last login date and time each time he logs in.
• Customer can check all transactions made with their account.
• Customer can check their account statement within a date range.
• Customer can request for ATM and Cheque Book.
• Admin can add/edit/delete customer account's
• All two of them (customer & admin) can change their password.
• Admin Login pages are hidden from customer for security purpose.
• Passwords are stored as encrypted hashes with an additional random salt for added
security.

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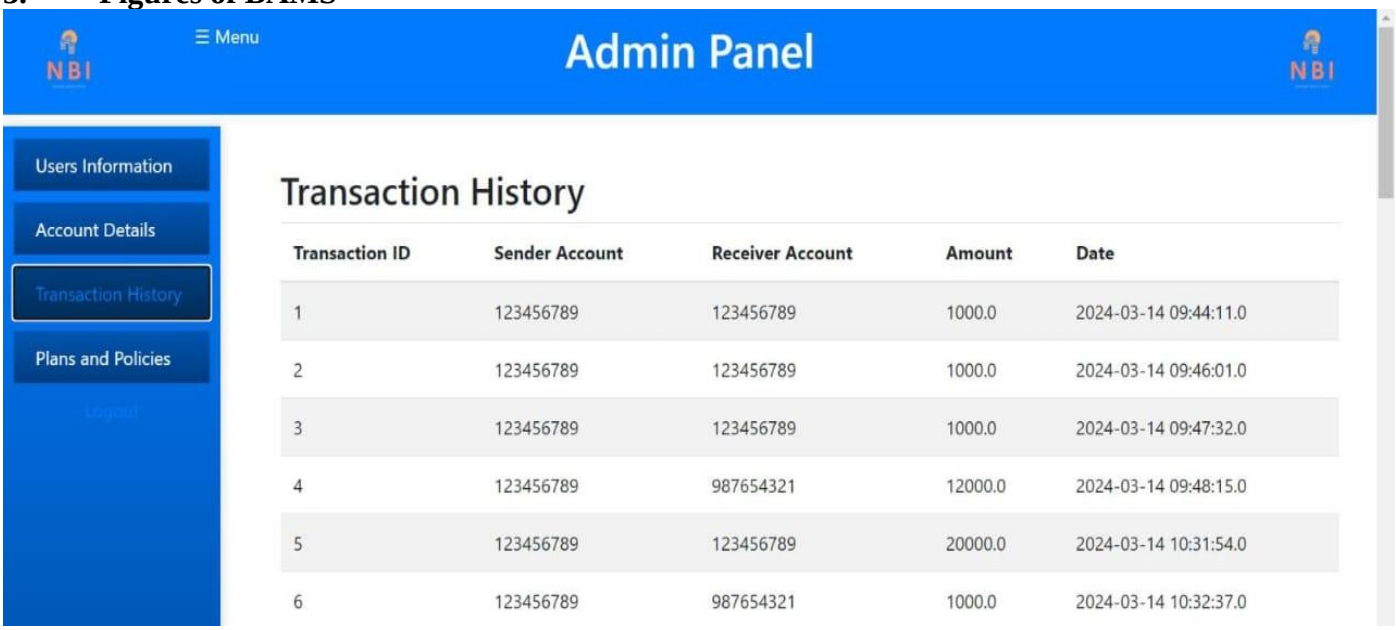
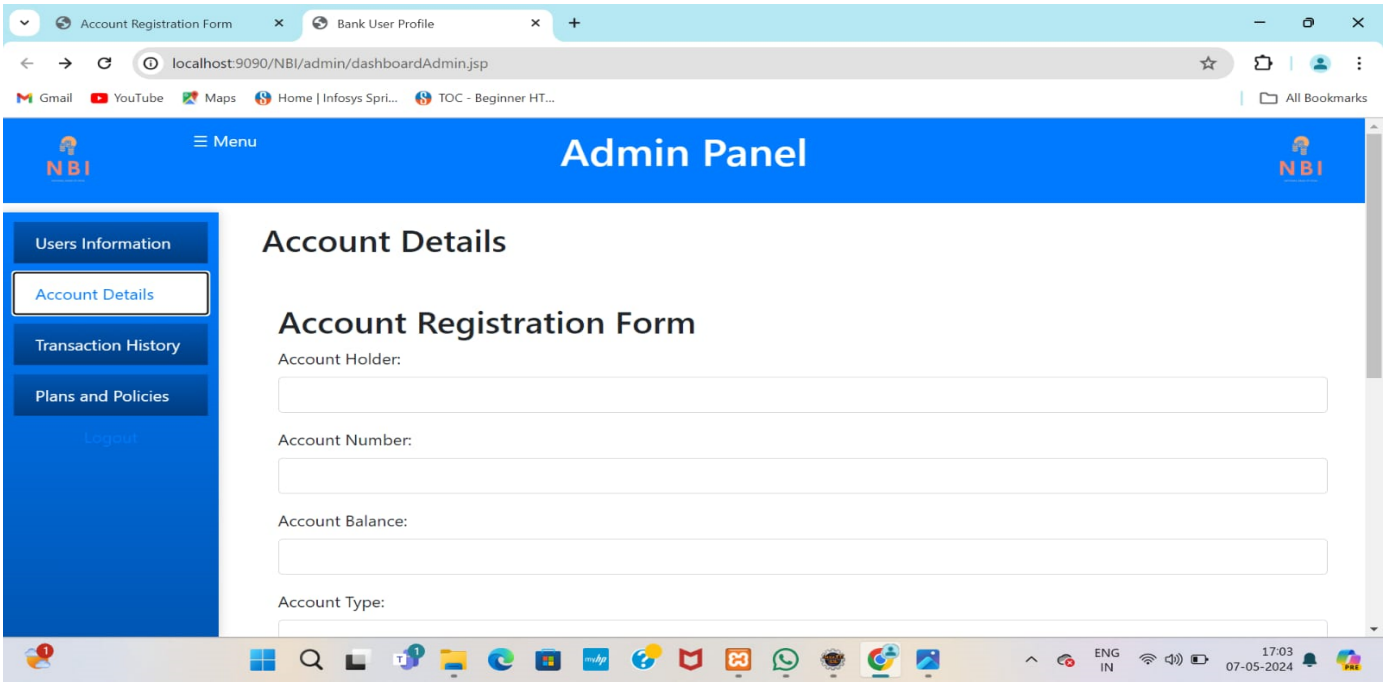
2. System Design

Design is the first step into the development phase for any engineered product or system.

Design is a creative process. A good design is 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 permit its physical realization". It may be defined as a process of applying various techniques and principles for the purpose of defining a device, a process or a system in sufficient detail to permit 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 build a system or product. As in 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 design phase is a transition from a user oriented document to a document to the programmers or database personnel.

3. Figures of BAMS





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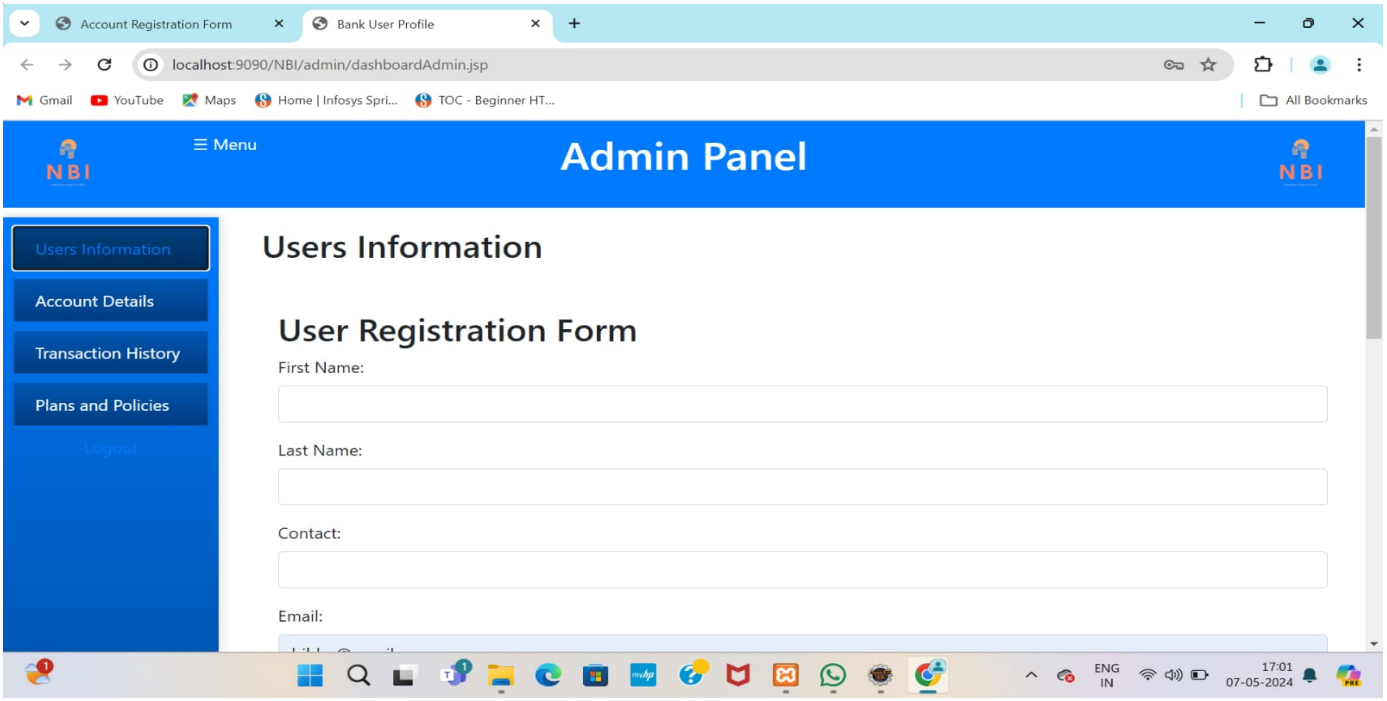

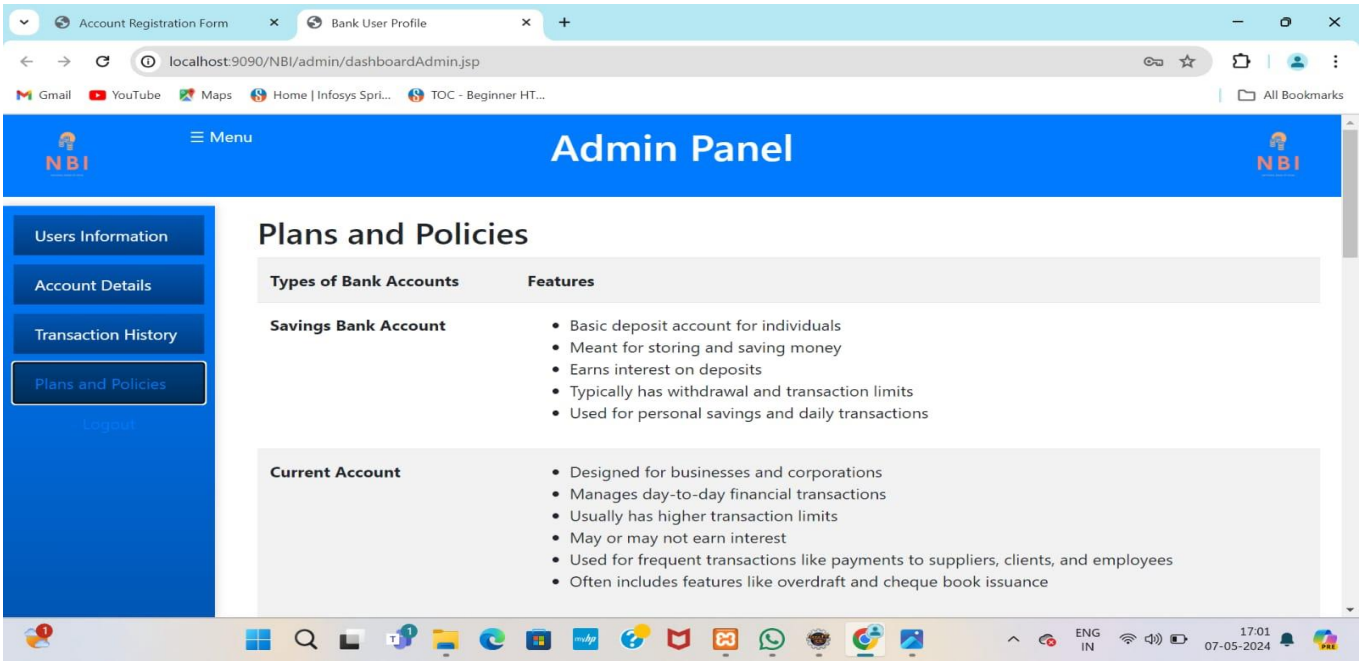

3.2 Tools and Techniques

- AJAX
- JQUERY
- MySQL
- HTML
- CSS
- BootStrap
- XAMPP
- Javascript

4. Benefits of online banking

Many of us lead busy lives. Some of us are up before the crack of dawn, getting ourselves prepared

so we can in turn get our families ready for the day. We rush to work, rush to get the kids to school, and at the end of the day we rush home only to brace ourselves for the next day. After a hectic day, the last thing you want to do is spend time waiting in line at the bank, or even the post office. That's where Online Banking comes in. Many of the

5. Future Look

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

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

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

6. System Design

Design is the first step into the development phase for any engineered product or system. Design is a creative process. A good design is 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 permit its physical realization”. It may be defined as a process of applying various techniques and principles for the purpose of defining a device, a process or a system in sufficient detail to permit 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 build a system or product. As in 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 design phase is a transition from a user oriented document to a document to the programmers or database personnel.

7. Logical Design

The logical flow of a system and define the boundaries of a system. It includes the following steps:

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

✓ Prepares output specifications – that is, determines the format, content and frequency of reports.

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

✓ Prepares edit, security and control specifications.

✓ Specifies the implementation plan.

✓ Prepares a logical design walk through of the information flow, output, input, controls and implementation plan.

✓ Reviews benefits, costs, target dates and system constraints.

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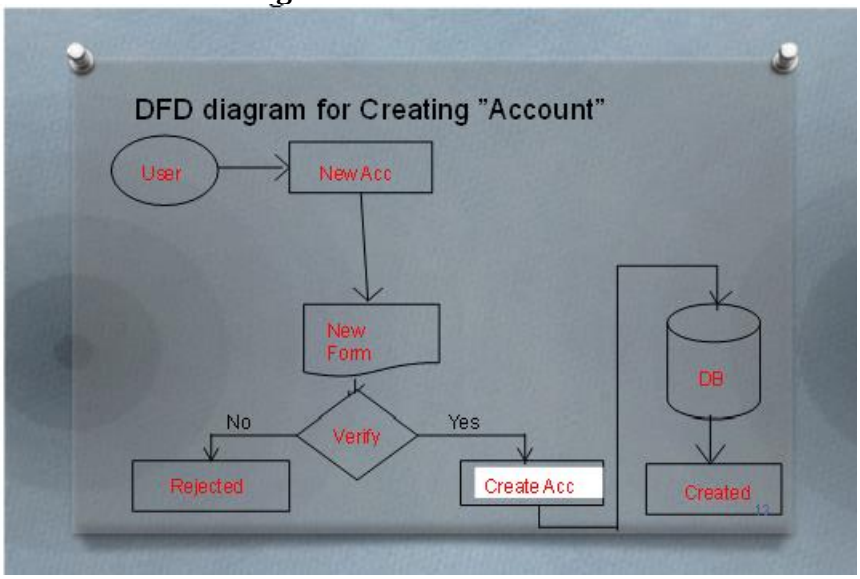
8. Data flow diagram



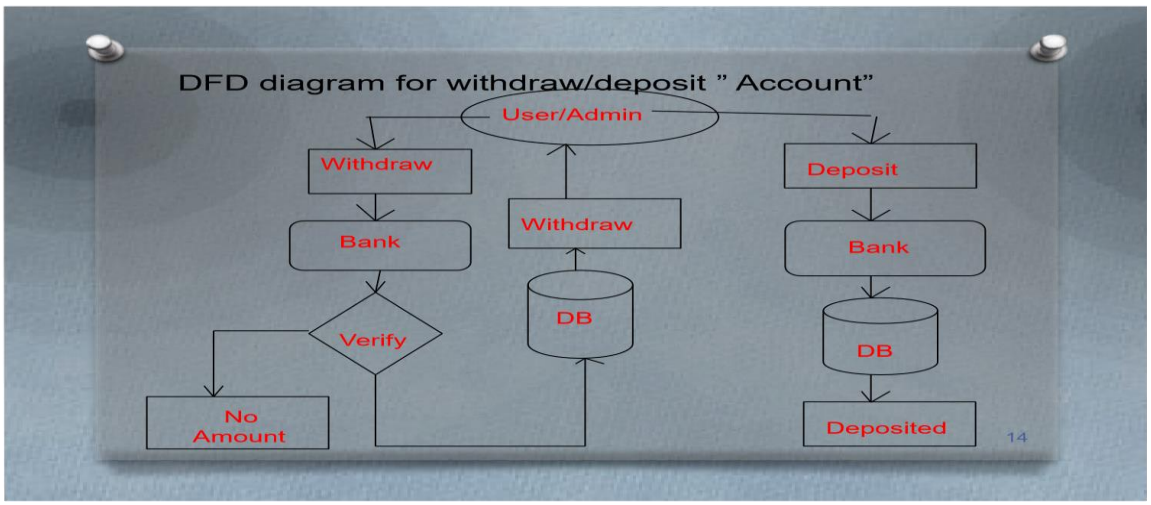


Figure-3.2: Withdraw/deposit account DFD

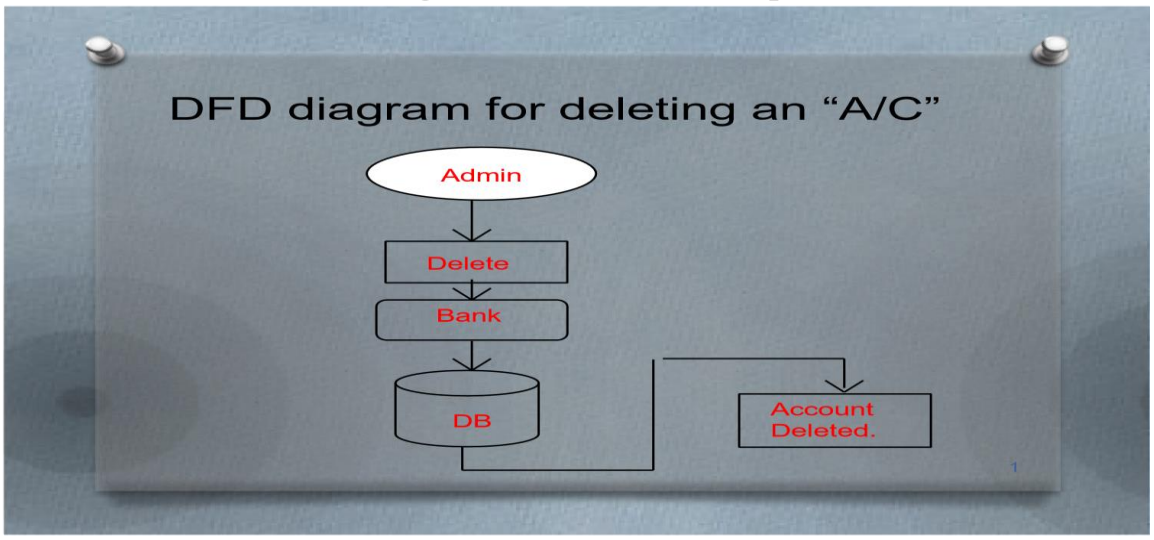


Figure-3.3: Deleting an account DFD

9. CONCLUSION

1. The Banking Management System is a crucial tool for modern banking institutions, streamlining operations and enhancing customer service. By automating transactions, managing accounts, and providing comprehensive analytics, the system empowers bank managers to make informed decisions for improved efficiency and profitability.
2. One of the primary advantages of the Banking Management System is its user-friendly interface, catering to both seasoned professionals and novice users alike. Its adaptability ensures that banks of all sizes and specialties can leverage its capabilities to meet their unique requirements.
3. Through seamless integration of front-end and back-end technologies, the system ensures robust security measures, safeguarding sensitive customer information and transactions. Utilizing quick and secure authentication processes, it enhances data management efficiency and accuracy while replacing outdated manual record-keeping methods.
4. Looking ahead, the system's future goals include further enhancing functionalities, such as real-time transaction monitoring, personalized customer services, and advanced analytics for predictive insights.
5. With its comprehensive scope and commitment to innovation, the Banking Management System is poised to revolutionize the banking industry, ensuring sustained growth and competitiveness in the digital era.

10. REFERENCES

[1] Kirti Bhandge, Tejas Shinde, Dheeraj Ingale, Neeraj Solanki, Reshma Totare,"A Proposed System for Touchpad Based Pizza Ordering System Using Android Application", International Journal of Advanced Research in Computer Science Technology (IJARCST 2015).

[2] Varsha Chavan, Priya Jadhav,Snehal Korade,Priyanka Teli, "Implementing Customizable Online Pizza Ordering System Using Web Based Application", International Journal of InnovativeScience, Engineering Technology(IJISET) 2015.

[3] Resham Shinde, Priyanka Thakare, Neha Dhomne, Sushmita Sarkar, "Design and Implementation of Digital dining in Restaurants using Android", International Journal of Advance Research in Computer Science and Management Studies 2014.

[4] Ashutosh Bhargave, Niranjan Jadhav, Apurva Joshi, Prachi Oke, S. R Lahane,"Digital Ordering System for Restaurant Using Android", International Journal of Scientific and Research Publications 2013.

[5] Khairunnisa K., Ayob J., Mohd. Helmy A. Wahab, M. Erdi Ayob, M. Izwan Ayob, M. Afif Ayob, "The Application of Wireless Pizza Ordering System" MASAUM Journal of Computing 2009.

[6] Noor Azah Samsudin, Shamsul Kamal Ahmad Khalid, Mohd Fikry Akmal Mohd Kohar, Zulkifli Senin, Mohd Nor Ihkasan," A customizable wireless pizza ordering system with real time customer feedback", IEEE Symposium on Wireless Technology and Applications(ISWTA) 2011.

[7] Serhat Murat Alagoza, Haluk Hekimoglub," A study on tam: analysis of customer attitudes inonline pizza ordering system", Elsevier Ltd. 2012.

[8] Patel Krishna, Patel Palak, Raj Nirali, Patel Lalit," Automated Pizza Ordering System", International Journal of Engineering Research and Development (IJERD) 2015.

[9] Mayur D. Jakhete, Piyush C. Mankar," Implementation of Smart Restaurant with e-menu Card," International Journal of Computer Applications 2015 of Smart Restaurant with e-menu Card," International Journal of Computer Applications.

[10] Abhishek Singh, Adithya R, Vaishnav Kanade, Prof. Salma Pathan "ONLINE PIZZA ORDERING SYSTEM" International Research Journal of Engineering and Technology (IRJET) 2018.

[11] *Gleditsch, N. P., Pinker, S., Thayer, B. A., Levy, J. S., & Thompson, W. R. (2013). The*

forum:

[12] *Data Analysis. International Data Analysis Review, 15(3), 396-419.*

[13] *Google for problem solving.*

[14] *https://www.slideshare.net/*

[15] *Database Programming with JDBC and Java by O'Reilly*

[16] *Head First Java 2nd Edition*

[17] *http://www.jdbc-tutorial.com/*

[18] *Java and Software Design Concepts by Apress*

[19] *https://www.tutorialspoint.com/java/*

[20] *http://www.javatpoint.com/java-tutorial*

[21] *https://docs.oracle.com/javase/tutorial/*

[22] *http://www.wampserver.com/en/*

[23] *http://www.JSP.net/*

[24] *http://www.tutorialspoint.com/mysql/*

[25] *httpd.apache.org/docs/2.0/misc/tutorials.html*