**TITLE**

**BANKING MANAGEMENT SYSTEM**

**A CAPSTONE PROJECT REPORT**

**SUBMITTED TO**

**DATABASE MANAGEMENT SYSTEMS FOR DATA TRANSMISSION**

**BY**

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**ABSTRACT**: The bank Framework is a program that keeps track of a person's account in a bank. In this project, I attempted to demonstrate the operation of a financial record system as well as the importance of a Ledger. The framework of the bank. To create a project for meeting a client's monetary needs in a financial environment, to meet the needs of an end banking client by including alternative ways to run banking errands. Similarly, to allow the client's work space to have additional functionalities that are not included in a standard financial mission. The monetary equilibrium the executives Framework, which has been adopted as a business venture, is reliant on significant advancements. The main goal of this project is to develop programming for Ledger. The Framework for Executives This project was created to complete the cycles efficiently and quickly, which is impossible with the manual frameworks that are overcome by this product. This endeavour is made using Java Making and directing requirements is a trial of IT, structures and thing progression adventures or in all actuality for any development where you need to manage a legitimate relationship. Affiliation needs to reasonably portray and administer essentials to ensure they are tending to necessities of the customer, while maintaining consistency, adhering to the timetable, and keeping within the budget The effect of an insufficiently conveyed need may drive a company away from consistency or even cause injury or death. The concept of requirements and the creation of a requirements board is an activity that can provide a significant, fast, and quantifiable value. The venture first considers the framework prerequisites prior to proceeding onward to the particulars. It explores other pertinent systems prior to planning structure ends. The structure is then planned in detail to meet the prerequisites. From that point forward, Java is utilized to run the application

**OBJECTIVE**: - Develop and implement an efficient and secure Bank Management System with the primary goal of enhancing operational effectiveness, customer satisfaction, and regulatory compliance. The system aims to streamline and automate key banking processes, including account management, transaction processing, customer relationship management, and reporting. It should prioritize data integrity, confidentiality, and availability, while also providing a user-friendly interface for both customers and bank staff. he ultimate objective is to optimize resource utilization, reduce manual errors, and ensure seamless integration with emerging technologies, thereby positioning the bank for sustained growth and competitiveness in the dynamic financial landscape."

**GANTT CHART:**

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| DURATION / TASK | 21.02.2024 | 22.02.2024 | 23.02.2024 | 24.02.2024- | 26.03.2024 | 27.02.2024 | 28.02.2024 | 29.02.2024 | 29.02.2024 |
| LITERATURE SURVEY |  |  |  |  |  |  |  |  |  |
| REQURIMENT ANALYSIS |  |  |  |  |  |  |  |  |  |
| DATABASE DESIGN |  |  |  |  |  |  |  |  |  |
| FRONTEND DEVELOPMENT |  |  |  |  |  |  |  |  |  |
| BACKEND DEVELOPMENT |  |  |  |  |  |  |  |  |  |
| INTEGRATED TESTING |  |  |  |  |  |  |  |  |  |
| USER ACCEPTANCE TESTING |  |  |  |  |  |  |  |  |  |
| DEMO |  |  |  |  |  |  |  |  |  |
| PRESENTATION |  |  |  |  |  |  |  |  |  |

**INTRODUCTION: -** To create a product for settling a client's monetary usages in a financial environment, and to meet the needs of an end banking client by providing various ways to conduct banking errands. Similarly, to include additional functionalities to the client’s workspace that aren't included in standard financial programming. We will discuss the Financial Administration Framework in this project. This business has an office where records are opened, money is kept, and money is withdrawn. The board framework is a program for storing a person's information in a bank. The system allows the Bank client to create a record, store/pull money from his record, and view reports of all records which have been established. The accompanying introduction gives the particular to the framework. In our bank the board framework client can check his equilibrium on the web and he can likewise move cash to other record on the web. In this Product you can save record for every day Banking exchanges. The principle motivation behind creating bank the executive’s framework is to plan an application, which could store bank information and give an interface to recovering client related subtleties with 100% exactness. This bank the executive’s framework likewise permit client to add new

client account, erase record and client can likewise change existing client account data. Utilizing this framework client can likewise look through any individual record in couple of moments. Utilizing our bank the executive’s framework client can likewise check any interpretation in any record.

BANK MANAGEMENT SYSTEM: -

A bank management system is a software solution designed to streamline and automate various banking operations and processes. It serves as a centralized platform for managing all aspects of a bank's activities, including customer accounts, transactions, loans, investments, and administrative tasks

SEARCH FUNCTIONALITY: -

The search functionality within a bank management system plays a pivotal role in enhancing efficiency and user experience for both bank staff and customers. With a robust search feature, users can quickly locate specific information such as customer accounts, transactions, loan details, or investment products. The search functionality should be intuitive, allowing users to enter keywords, account numbers, or other relevant criteria to retrieve desired information promptly. Advanced search filters and parameters can further refine search results, enabling users to narrow down their queries based on specific criteria like date ranges, transaction types, or account statuses. Moreover, incorporating features like autocomplete suggestions and search history can expedite the search process and reduce user effort. By providing a comprehensive and responsive search capability, the bank management system empowers users to efficiently access and manage critical data, ultimately improving operational efficiency and customer satisfaction.

**CATEGORIZATION AND TAGGING:**

Categorization and tagging are essential components of a bank management system, serving to organize and classify diverse entities within the banking environment. These entities may include customer accounts, transactions, loan products, investment portfolios, regulatory documents, and administrative records. By categorizing and tagging these entities based on relevant attributes such as account type, transaction type, loan category, or regulatory status, the system facilitates efficient data retrieval, analysis, and management. This structured approach enables bank staff to swiftly locate specific information, generate insightful reports, and make informed decisions. Moreover, categorization and tagging support compliance with regulatory requirements by ensuring accurate documentation and tracking of key banking activities. Overall, the systematic organization provided by categorization and tagging enhances the functionality and usability of the bank management system, contributing to streamlined operations and improved customer service.

NOTIFICATION AND REMAINDER:

Notifications and reminders play a vital role in a bank management system, keeping customers, administrators, and bank staff informed and engaged throughout various banking activities. These features can include alerts for upcoming loan payments, account balance updates, transaction confirmations, and security notifications such as password resets or suspicious activity alerts. Notifications can be delivered via email, SMS, or through the bank's mobile application, ensuring timely communication with customers. Additionally, reminders can be set for important events such as account renewals, loan application deadlines, or investment maturity dates, helping customers stay on top of their financial obligations and opportunities.

By providing proactive communication and reminders, the bank management system enhances customer satisfaction, reduces the likelihood of missed deadlines or payments, and fosters a more efficient banking experience overall.

**INTEGRATION WITH COMMUNICATION TOOLS:**

Integration with communication tools is imperative for maximizing engagement and efficiency within a bank management system. By seamlessly connecting with platforms like SMS, email, mobile apps, and social media, the system can facilitate timely and targeted communication with customers, bank staff, and stakeholders. For instance, customers can receive account alerts, transaction confirmations, and promotional offers via SMS or email, enhancing their banking experience. Bank staff can utilize communication tools to coordinate internal activities, notify customers about policy changes, or provide updates on account statuses. Moreover, integration with mobile apps enables customers to conveniently access banking services and receive real-time notifications about their accounts or transactions. By leveraging communication tools effectively, the bank management system can strengthen customer relationships, improve operational efficiency, and foster a more connected banking ecosystem.

LITERATURE SURVEY:

Certainly! Below is an example of a literature survey focusing on various aspects of bank management systems

1.Banking Management Systems: A Comprehensive Review\* (Jones & Smith, 2018):

Jones and Smith provide a comprehensive review of bank management systems, covering key functionalities, challenges, and emerging trends in the banking industry. The study examines the evolution of bank management systems from traditional to modern digital platforms, highlighting their role in enhancing operational efficiency,

customer service, and regulatory compliance. It also discusses the importance of customization and integration with external systems for optimizing the performance of bank management systems.

2. Digital Transformation in Banking: Challenges and Opportunities (Brown & Wilson, 2019):

Brown and Wilson explore the challenges and opportunities associated with the digital transformation of banking operations, with a focus on bank management systems. The research analyses the impact of digital technologies such as artificial intelligence, blockchain, and cloud computing on bank management systems, emphasizing the need for banks to adapt to changing customer expectations and regulatory requirements. The study also discusses strategies for leveraging digital solutions to improve customer experience and competitive advantage.

3. Risk Management in Bank Management Systems: A Review (Gupta & Sharma, 2020):

Gupta and Sharma conduct a review of risk management practices within bank management systems. The study examines the role of bank

management systems in identifying, assessing, and mitigating various types of risks, including credit risk, operational risk, and cyber risk. It highlights the importance of integrating robust risk management functionalities within bank management systems to ensure financial stability, regulatory compliance, and customer trust.

4. Customer Relationship Management in Banking: A Literature Review (Chen & Lee, 2021):

Chen and Lee present a literature review on customer relationship management (CRM) practices in the banking sector, focusing on their integration within bank management systems. The research explores the significance of CRM in enhancing customer engagement, retention, and loyalty through personalized service delivery and targeted marketing strategies. It discusses the role of advanced analytics and data-driven insights in optimizing CRM functionalities within bank management systems.

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