ACKNOWLEDGEMENT

We are greatly indebted to our seminar guided by Ms.Nitu.L.Pariyal for her able guidance throughout this work. It has been an altogether different experience to work with her and we would like to thank her for her help, suggestions and numerous discussions.

We gladly take this opportunity to thank Dr.A.M.Rajurkar. (Head of Computer Science & Engineering, MGM's College of Engineering, Nanded).

We are heartily thankful to Dr. Lathkar G. S. (Director, MGM's College of Engineering, Nanded) for providing facility during progress of Mini project; also for her kindly help, guidance and inspiration.

Last but not least we are also thankful to all those who help directly or in directly to develop this seminar and complete it successfully.

With Deep Reverence,

Atharv Pawar [156]

[SY-CSE-A]

ABSTRACT

Simple Banking System

This document presents the design and implementation of a simple banking system developed in Java. The system facilitates basic banking operations such as creating accounts, depositing and withdrawing funds, and checking account balances.

The core components of the system include the Account, BankingSystem, and MainTestCase classes. The Account class encapsulates the details of a bank account, including the account number, holder's name, and balance, and provides methods for depositing and withdrawing funds. The BankingSystem class manages multiple bank accounts, supporting the creation of new accounts, and executing transactions such as deposits and withdrawals. The MainTestCase class serves as the user interface, allowing users to interact with the banking system through a command-line interface.

The system is designed to handle up to a fixed number of accounts and ensures data encapsulation and integrity by using private fields and public methods. Error handling mechanisms are incorporated to manage invalid inputs and operations such as insufficient funds during withdrawals.

This banking system serves as an educational tool for understanding fundamental object-oriented programming concepts and practices in Java, including class design, encapsulation, and array-based data management. Future enhancements could include extending the system to support more complex operations, persistence through file storage or databases, and a graphical user interface for improved user experience.

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CONTENT