**A**

**MINOR PROJECT SYNOPSIS**

**ON**

**Basic Banking Management System**

*In partial fulfilment* *of the requirement for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

*Submitted by*

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**ACCURATE COLLEGE, GREATER NOIDA - 201316**

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# DECLARATION

I hereby declare that the synopsis entitled **“Basic Banking Management System** submitted to the Department of Computer Science, Accurate College, Greater Noida, is a record of an original work done by me under the guidance of miss SEEMA YADAV and this research is being submitted to fulfil the requirements for the award of degree of Bachelor of Technology.

The results embodied in this research work have not been submitted to any other university or institution for the award of any degree or diploma.

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# CERTIFICATE

This is to certify that the synopsis entitled **“Basic Banking Management System** by Mr.(RegistrationNo**………………..**) submitted to Accurate College, towards the fulfilment of requirements of the degree of Bachelor of Technology is a record of bonafide work carried out by him in the Department of Computer Science, Accurate College, Greater Noida. The results/findings contained in this report have not been submitted in part or full to any other University/Institute for award of any other Degree/Diploma.

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**ACKNOWLEDEGMENT**

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Lastly, I would like to thank the developers and contributors of Python and Tkinter for creating such powerful tools that made this project possible. Their work continues to inspire and facilitate learning in the field of programming and software development.

1. **INTRODUCTION:**

The Basic Banking Management System is designed to help automate and simplify banking operations. The system allows users to perform various banking tasks such as creating new accounts, making deposits and withdrawals, checking balances, updating account details, and closing accounts. Using Python and Tkinter for the graphical user interface (GUI), the system is intended to streamline the operations of a bank or financial institution while providing an intuitive platform for customers to interact with.

1. **LITERATURE SURVEY:**

Various banking systems have been developed and implemented using different technologies, such as Java, C++, and Python. Previous research highlights the integration of database management systems (DBMS) and user interfaces for managing accounts, transactions, and customer information. However, simpler systems based on Python and Tkinter, like the one presented here, offer a lightweight yet functional approach for small-scale banking management applications.

1. **OBJECTIVES:**

The primary objectives of this Bank Management System are:

* To automate common banking tasks.
* To provide a user-friendly interface for account management.
* To ensure data persistence by saving account information to a file.
* To facilitate essential banking activities such as account creation, deposits, withdrawals, balance checks, account updates, and closures.

1. **METHODOLOGY / PLANNING OF WORK:**

The development process is divided into several phases:

* **Phase 1:** Requirement gathering and designing the system’s user interface using Tkinter.
* **Phase 2:** Implementing the core functionality such as account creation, deposit and withdrawal, balance enquiry, and updating account details.
* **Phase 3:** Storing and retrieving account data using file handling techniques.
* **Phase 4:** Testing and debugging to ensure the smooth operation of the system.
* **Phase 5:** Deployment and user feedback collection.

1. **SOFTWARE REQUIREMENT SPECIFICATION:**

The system requires the following software and tools:

* **Operating System:** Windows, Linux, or macOS
* **Programming Language:** Python 3.x
* **GUI Library:** Tkinter
* **Storage:** Text files (data stored in plain text format)
* **Other Libraries:** os, messagebox, ttk for GUI components, and file handling for data persistence.

1. **TECHNICAL DETAILS:**

* **Account Class:** This class encapsulates account-related information, such as account number, name, account type, and balance.
* **Banking Management System Class:** The main class responsible for managing accounts and providing various banking services. It interacts with the graphical interface and uses file handling to save and load account data.
* **GUI Interface:** The Tkinter library is used to build the user interface, which includes forms for account creation, transaction processing, and querying account details.
* **Data Storage:** Account information is stored and retrieved from a text file. Each account’s details are saved in a comma-separated format.

1. **CONCLUSION AND FUTURE RESEARCH WORK:**

This Bank Management System successfully automates and simplifies banking operations. It provides an easy-to-use platform for account management and transactions. Future improvements can include the integration of a database management system for better data handling, security features such as password protection, and more advanced features like loan management or customer support chatbots.

1. **REFERENCES:**

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