

# Bank Management System

# Introduction

- **Overview of the Project**

- The Bank Management System is a simple console-based application developed in Python, designed to manage basic banking operations.
- The main goal is to provide a user-friendly platform for account management without the complexity of login systems.

# Project Features

- **Key Features**
  - Create New Account: Users can create a new bank account by entering details such as the account holder's name, account number, account type (Saving or Current), and an initial deposit of at least 500.
  - View Account Records: Users can view the details of all account holders.
  - Deposit and Withdraw Money: Users can perform transactions by depositing or withdrawing money from their accounts.
  - Balance Inquiry: Users can check their account balance.
  - Close Account: Users can close their bank accounts.
  - Edit Account Details: Users can modify their account information, including account type.

# System Requirements

## System Requirements

- Software Requirements
  - Python must be installed on the computer.
  - The database file should be included with the project files.
- Hardware Requirements
  - Basic computer specifications are sufficient to run Python and the project.

# Creating a New Account

## Process of Account Creation

Users input the account holder's name, account number, select the account type, and provide an initial deposit amount.

The system ensures the initial deposit is at least 500.

## Transactions

### Deposit and Withdrawal

To deposit money, users provide their account number and the amount to be deposited.

To withdraw money, users provide their account number and the amount to be withdrawn.

# Account Management

**Balance Inquiry:** Users can check their account balance by providing their account number.

**Viewing All Accounts:** The system can display a list of all account holders and their details.

**Editing Account Details:** Users can modify their account information and change the account type if needed.

# Database Integration

- External Database Connection
  - The system uses an external database file
  - to store user data permanently, ensuring
  - that account information is retained between sessions.
  -

## Running the Project

- Steps to Run the Project
  - Install Python on the computer.
  - Download and extract the project files.
  - Run the main.py script to start the application.

# Project Architecture and Flow

## System Architecture

Overview of the system's structure: main.py script and database connection.

How different components (functions and modules) interact within the system.

## Data Flow

Step-by-step process flow for major operations like account creation, transactions, and data retrieval.

Illustrate with a simple flowchart or diagram if possible.

# Conclusion

- Summary of the Project
  - The Bank Management System is a beginner-friendly application focusing on basic CRUD operations for bank accounts.
  - It provides an educational platform for understanding the fundamentals of Python programming and database integration.

Thank you