BAHRIA UNIVERSITY, (Karachi Campus)
Department of Computer Science
PROPOSAL

Course Title: Computer Programming   **Course Code**: CSL-113
Course Instructor: Ms. Azeema Sadia   **Class**: BS (CS) – 1B
Senior Lab Instructor: Ms. Mehwish Saleem   **Name: BankEase Pro**

Date: 22Nov'2024

PROJECT TITLE:
"Bank management System"

GROUP MEMBERS LIST:
.Musavir Waseem (Team Lead)
. Wardha Khalid
.Maheen Fatima

PROJECT SCOPE:
A simple Bank Management System for managing customer accounts with functionalities for account creation, modification, and transactions. Building a Bank Management System in C++ is a comprehensive project that covers a wide array of programming concepts. Not only does it reinforce core programming skills, but it also simulates real-world applications.

PROJECT ABSTRACT:
A Bank Management System developed in C++ is designed to streamline banking operations and provide a user-friendly platform for managing customer accounts, transactions, and administrative functions. The system automates essential banking tasks such as account creation, deposits, withdrawals, fund transfers, and statement generation. It can be utilized by small-scale banks, financial institutions, or as a project for learning and showcasing programming skills.

PROJECT FUNCTIONALITIES:

Account Management
Create new accounts with account type and initial deposit.
Update account details.
Delete accounts.
Transaction Management

Deposit money into accounts.
Withdraw money with balance validation.
Data Retrieval

Display details of all accounts.

Display balance and account details for a specific account.
File Handling

Binary file storage for persistent data.
Temporary files for safe record updates and deletions.
User Interface

Menu-driven console application.
Input validation for robust user interaction.

MODULE DISTRIBUTION:

Musavir Waseem *(020134242-009)*

Account Creation: Create a new account with type and initial deposit.
Account Update: Modify account holder details, account type, and balance.
Account Deletion: Remove an account from the database.
Transaction Management Module

Deposit Amount: Add money to an account.
Withdraw Amount: Deduct money with balance and type validation.
Data Retrieval Module

Maheen Fatima *(02-1342-42-096)*

Account Details: Display specific account details.
All Accounts List: Show a tabular list of all account holders.
File Management Module

Data Storage: Save account details in a binary file (account.dat).
Record Updates: Use temporary files for secure update and deletion operations.
Data Integrity: Prevent data corruption during read/write operations.
User Interface Module

Wardha Khalid *(02-134242-096)*

Main Menu: Provide an intuitive menu for navigating operations.
Input Validation: Ensure user inputs are valid (e.g., account type, minimum balance).
Feedback Messages: Display success or error messages for actions.
Introductory Module

Welcome Screen: Display project title and developer information at startup.
Pause for Input: Allow the user to proceed to the main menu.

Teacher Signature: _____

Remarks: _____

Submission Date: 22November'2024