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# Bank Management System

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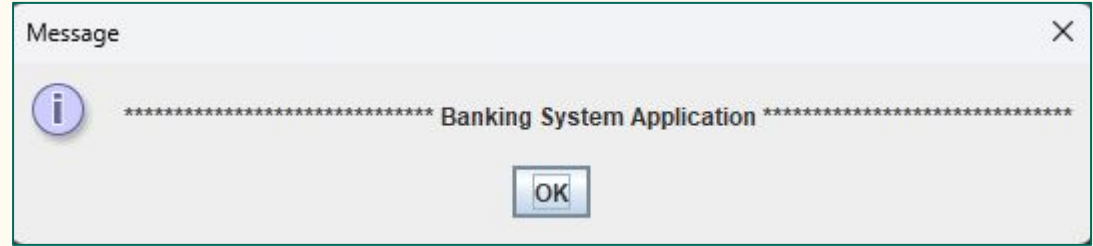
# INTRODUCTION

This is a simple banking system application that allows users to perform various banking operations on multiple customer accounts. It includes features such as opening new accounts, displaying account details, depositing and withdrawing funds, requesting and repaying loans, searching for accounts, and deleting accounts. Users are required to log in with a predefined username and password ("admin" and "password") to access these features. The application uses an array of BankDetails objects to manage customer accounts. The program provides a text-based menu-driven interface for users to interact with the system.

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# KEY POINT

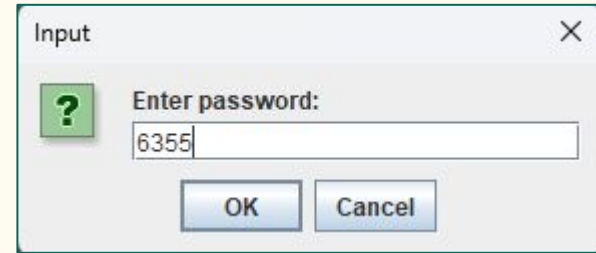
1. User Authentication
2. Account Management
3. Loan Handling
4. Account Search
5. Account Deletion
6. Error Handling
7. Security
8. Exit Option



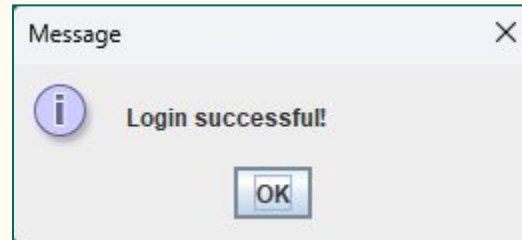
**User Authentication** : Users are required to log in with a predefined username and password to access the banking features.



A dialog box titled "Input" with a close button (X) in the top right corner. It contains a green square icon with a white question mark. To the right of the icon is the text "Enter username:". Below this text is a text input field containing the text "BANK". At the bottom of the dialog are two buttons: "OK" and "Cancel".



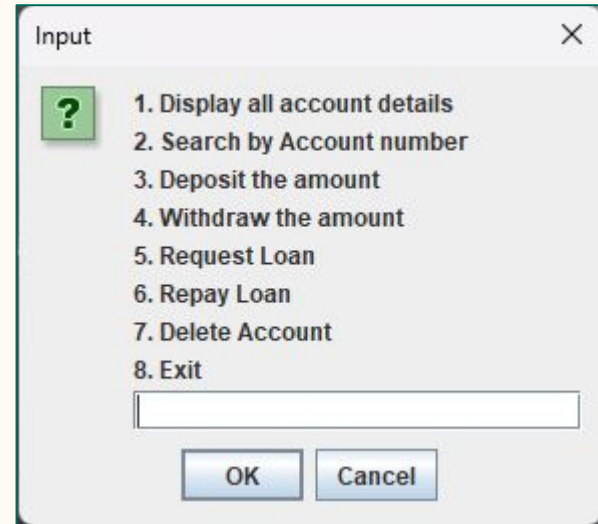
A dialog box titled "Input" with a close button (X) in the top right corner. It contains a green square icon with a white question mark. To the right of the icon is the text "Enter password:". Below this text is a text input field containing the text "6355". At the bottom of the dialog are two buttons: "OK" and "Cancel".



A dialog box titled "Message" with a close button (X) in the top right corner. It contains a purple circular icon with a white lowercase 'i'. To the right of the icon is the text "Login successful!". At the bottom of the dialog is a single button: "OK".

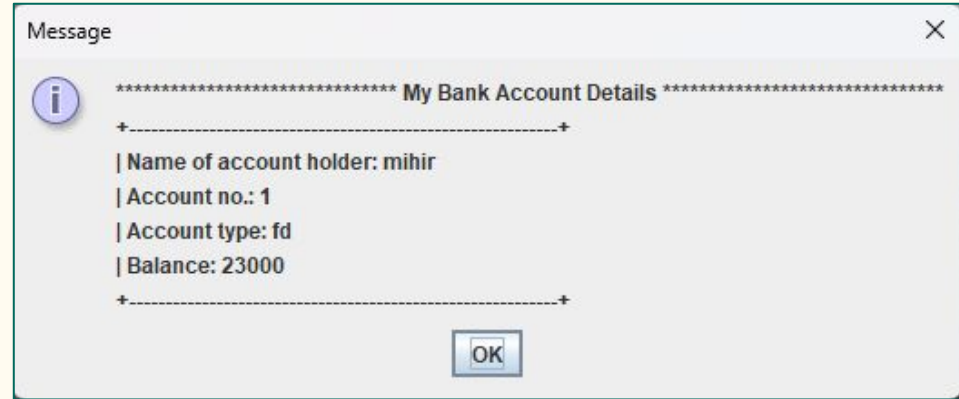
# ADMIN PANEL

Users can perform various operations on customer accounts, including depositing and withdrawing funds, requesting and repaying loans, and viewing account details.

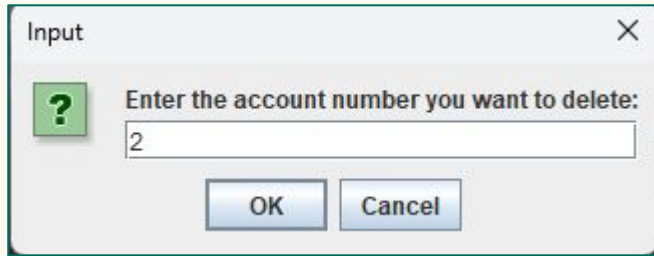


# Account Search / Display

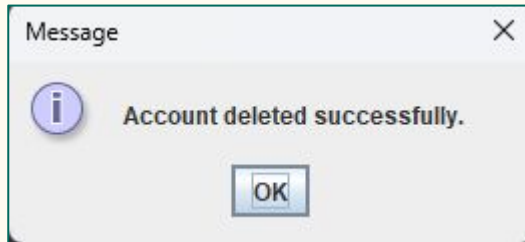
Users can search for accounts by their account numbers and view account details. Accounts are stored in an array.



# Account Deletion



A screenshot of a Windows-style input dialog box titled "Input" with a close button (X) in the top right corner. On the left is a green square icon with a white question mark. To its right is the text "Enter the account number you want to delete:". Below this text is a text input field containing the number "2". At the bottom of the dialog are two buttons: "OK" and "Cancel".



Users with appropriate permissions can delete customer accounts, effectively removing them from the system.

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# OPERATIONS

Enter the amount you want to deposit:

Message

**i** \*\*\*\*\* My Bank Account Details \*\*\*\*\*

+-----+

| Name of account holder: Mihir

| Account no.: 1

| Account type: saving

| Balance: 30000

+-----+

# DEPOSIT

Message

**i** \*\*\*\*\* My Bank Account Details \*\*\*\*\*

+-----+

| Name of account holder: Mihir

| Account no.: 1

| Account type: saving

| Balance: 40000

+-----+

# WITHDRAW

Message

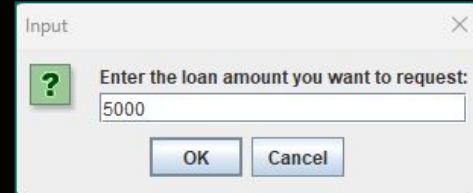
**i** Balance after withdrawal: 30000



# Loan Management

The system supports loans, allowing customers to request and repay loans. Loan amounts are added to the account balance upon approval.

## Request Loan

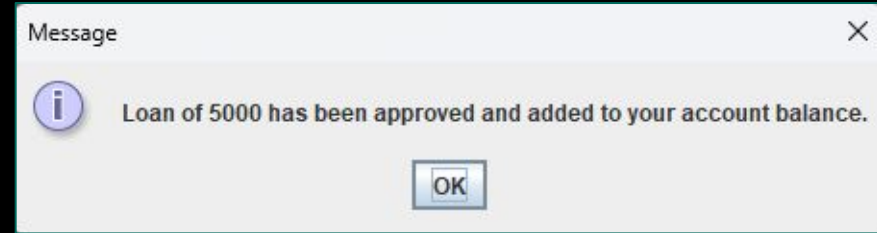


Input

Enter the loan amount you want to request:

5000

OK Cancel

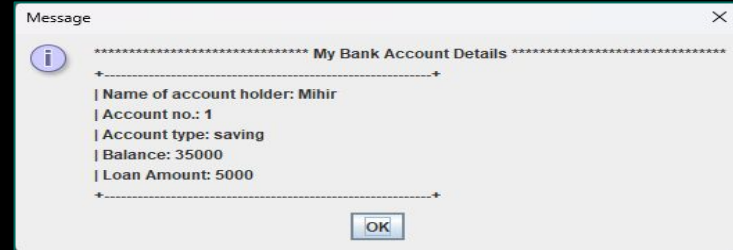


Message

Loan of 5000 has been approved and added to your account balance.

OK

## Repay Loan

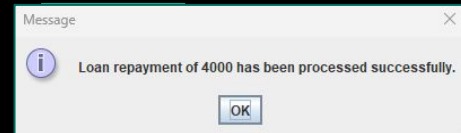


Message

\*\*\*\*\* My Bank Account Details \*\*\*\*\*

| Name of account holder: Mihir  
| Account no.: 1  
| Account type: saving  
| Balance: 35000  
| Loan Amount: 5000

OK



Message

Loan repayment of 4000 has been processed successfully.

OK

# CONCLUSION

Banking system program offers a comprehensive set of features for managing customer accounts, performing financial transactions, and ensuring user security. It employs a text-based menu-driven interface, encapsulates account data for modularity and security, and utilizes error handling for a user-friendly experience. The program's use of color-coded output and static members for authentication enhances its functionality and usability. It serves as a basic yet functional example of a banking system, demonstrating how fundamental banking operations can be implemented in Java.

Thank  
you

