

# Bank Management ATM System

A Simple ATM Simulation with MySQL Integration

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# Introduction to the ATM System



#### Purpose

Simulate basic ATM functionality



### **Efficiency**

Replaces manual processes digitally



### **Technology**

Built with Java and MySQL

### Core System Objectives



### **Enable Operations**

Essential banking from computer interface



### **Enhance Experience**

Secure, responsive user design



### Secure Login

PIN-based authentication system





### Technologies Utilized

Frontend	Backend	Database	Future Expansion
Java Swing for GUI	Java (Object-Oriented	MySQL for persistent	Apache Server Pages for
	Programming)	storage	web integration

### **Key Functionalities**



Account Manageme nt



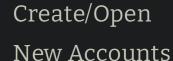
User Access



Funds Operations

Login with PIN

Deposit and Withdraw Funds





Balance Inquiry

View Account

Details



### **Additional Features**

#### **Funds Transfer**

• Local, Domestic, International

#### **History & Statements**

• View Transaction History

#### **User Control**

Change Password and PIN

#### **Account Closure**

• Close Account Function

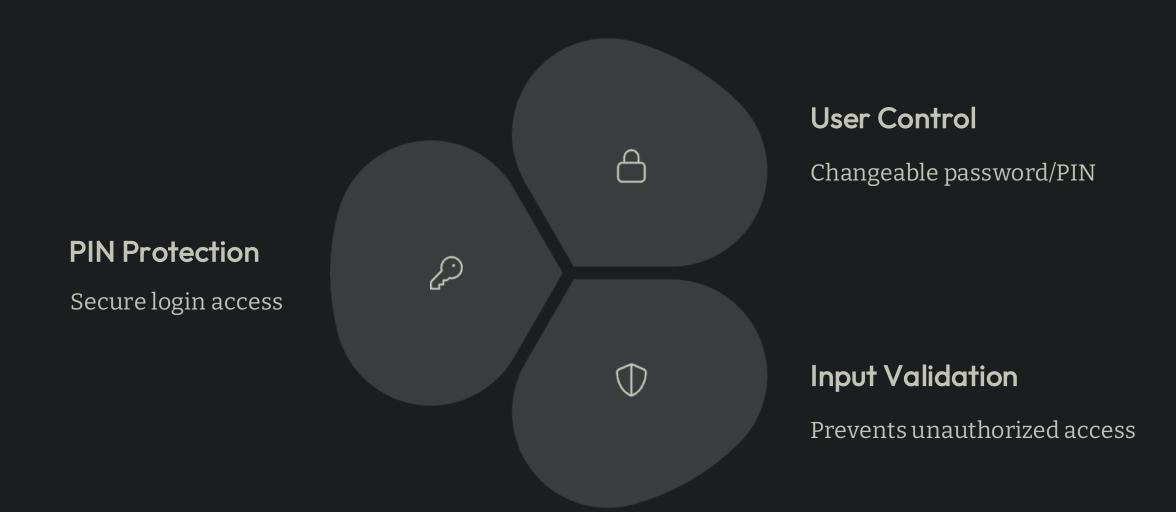




## Database Schema

Users Table	Personal info, login credentials	UserID, Username, Password, PIN, Name, Address
Accounts Table	Links accounts to users, balances	AccountID, UserID, AccountType, Balance
Transactions Table	Logs all transactions for auditing	TransactionID, AccountID, Type, Amount, Date

### **Security Measures**



### Conclusion & Future Scope

**Efficient Simulation** Delivers effective ATM operations **Data Integrity** Ensures persistence and secure access **Future Enhancements** 3 Online portal, mobile integration, enhanced security