Model::Main

Banking Management System

User

+usedID: String
-password: String
+role: String

+login()
+changePassword()
+logout()
+exit()

Admin

+employees: List<BankEmployee>
+customers: List<Customer>

+addBackEmployee(employeeDetails: String)
+modifyUserDetails(userID: String, updatedDetails: String)
+manageUserRoles(userID: String, newRole: String)

Manager

+loanApplication: List<Loan>
+feedback: List<Feedback>

+activateDeactivateCustomerAccount(custID: String, status: Boolean)
+assignLoanApplicationToEmployee(empID: String, loanID: String)
+reviewCustomerFeedback(feedbackID: String)

BankEmployee

+loanApplications: List<Loan>
+assignedCustomers: List<Customer>

+addCustomer(customerDetails: String)
+modifyCustomerDetails(customerID: String, updateDetails: String)
+processLoanApplication(loanID: String)
+approveRejectLoan(loanID: String, decision: Boolean)
+viewCustomerTransactions(customerID: String)

Customer

+account: Account
+transactionHistory: List<Transation>
+loan: Loan
+feedback: String

+viewBalance()
+deposit(amount: float)
+withdraw(amount: float)
+transferFunds(toAccount: String, amount: float)
+applyForLoan(amount: float, duration: int)
+viewTransactionHistory()
+addFeedback(feedback: String)

Feedback

+feedbackID: String
+customerID: String
+content: String
+date: Date

+addFeedback(content: String)
+reviewFeedback()

Account

+accountNumber: String
+balance: float
+accountType: String
+status: String

+getBalance()
+deposit(amount: float)
+withdraw(amount: float)
+transferFunds(toAccount: String, amount: float)

Transaction

+transactionID: String
+type: String
+amount: float
+date: Date

Loan

+loanID: String
+amount: float
+interestRate: float
+loanStatus: String

+applyForLoan(amount: float, duration: int)
+approveLoan()
+rejectLoan()