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| --- |
| ACCOUNT |
| -accountId: int  -balance: float  -type: AccountType  -customerId: int |
| +getAccountId(): int  +getBalance(); float  +getType(): AccountType  +getCustomerId(): int |

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| --- |
| TRANSACTION |
| -transactionId: int  -amount: float  -date: Date  -type: TransactionType  -sourceAccountId: int  -destinationAccountId: int |
| + Transaction(transactionId: int, amount: float, date: Date, type: TransactionType, sourceAccountId: int, destinationAccountId: int)  + getTransactionId(): int  + getAmount(): float  + setAmount(amount: float): void  + getDate(): Date  + setDate(date: Date): void  + getType(): TransactionType  + setType(type: TransactionType): void  + getSourceAccountId(): int  + setSourceAccountId(accountId: int): void  + getDestinationAccountId(): int  + setDestinationAccountId(accountId: int): void |

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| --- |
| CUSTOMER |
| - customerId: int  - firstName: String  - lastName: String  - address: String  - phoneNumber: String  - accounts: List<Account> |
| + Customer(customerId: int, firstName: String, lastName: String, address: String, phoneNumber: String)  + getCustomerId(): int  + getFirstName(): String  + setFirstName(firstName: String): void  + getLastName(): String  + setLastName(lastName: String): void  + getAddress(): String  + setAddress(address: String): void  + getPhoneNumber(): String  + setPhoneNumber(phoneNumber: String): void  + getAccounts(): List<Account>  + addAccount(account: Account): void  + removeAccount(account: Account): void |

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| --- |
| LOAN |
| - loanId: int  - amount: float  - interestRate: float  - duration: int  - customerid: int |
| + Loan(loanId: int, amount: float, interestRate: float, duration: int, customer: Customer)  + getLoanId(): int  + getAmount(): float  + setAmount(amount: float): void  + getInterestRate(): float  + setInterestRate(interestRate: float): void  + getDuration(): int  + setDuration(duration: int): void  + getCustomerid(): int  + setCustomer(customer: Customer): void  + calculateInterest(): float |

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| --- |
| BRANCH |
| - branchId: int  - location: String  - employees: List<Employee>  - accounts: List<Account>  - atms: List<ATM> |
| + Branch(branchId: int, location: String)  + getBranchId(): int  + getLocation(): String  + setLocation(location: String): void  + getEmployees(): List<Employee>  + addEmployee(employee: Employee): void  + getAccounts(): List<Account>  + addAccount(account: Account): void  + getATMs(): List<ATM>  + addATM(atm: ATM): void |

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| --- |
| ATM |
| - atmId: int  - location: String  - cashBalance: float |
| + ATM(atmId: int, location: String)  + getAtmId(): int  + getLocation(): String  + setLocation(location: String): void  + getCashBalance(): float  + setCashBalance(cashBalance: float): void  + withdraw(amount: float): void  + deposit(amount: float): void  + checkBalance(): float |

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| --- |
| CARD |
| - cardId: int  - cardType: CardType  - expirationDate: Date  - customerId: int |
| + Card(cardId: int, cardType: CardType, expirationDate: Date, customerId: int)  + getCardId(): int  + setCardId(cardId: int): void  + getCardType(): CardType  + setCardType(cardType: CardType): void  + getExpirationDate(): Date  + setExpirationDate(expirationDate: Date): void  + getCustomerId(): int  + setCustomerId(customerId: int): void |

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| --- |
| TRANSFER |
| - transferId: int  - sourceAccountId: int  - destinationAccountId: int  - amount: float  - date: Date |
| + Transfer(transferId: int, sourceAccountId: int, destinationAccountId: int, amount: float, date: Date)  + getTransferId(): int  + setTransferId(transferId: int): void  + getSourceAccountId(): int  + setSourceAccountId(sourceAccountId: int): void  + getDestinationAccountId(): int  + setDestinationAccountId(destinationAccountId: int): void  + getAmount(): float  + setAmount(amount: float): void  + getDate(): Date  + setDate(date: Date): void |

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| --- |
| INTEREST |
| - interestId: int  - amount: float  - date: Date  - accountId: int |
| + Interest(interestId: int, amount: float, date: Date, accountId: int)  + getInterestId(): int  + setInterestId(interestId: int): void  + getAmount(): float  + setAmount(amount: float): void  + getDate(): Date  + setDate(date: Date): void  + getAccountId(): int  + setAccountId(accountId: int): void |

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| --- |
| EMPLOYEE |
| - employeeId: int  - firstName: String  - lastName: String  - role: String  - branchId: int |
| + Employee(employeeId: int, firstName: String, lastName: String, role: String, branchId: int)  + getEmployeeId(): int  + setEmployeeId(employeeId: int): void  + getFirstName(): String  + setFirstName(firstName: String): void  + getLastName(): String  + setLastName(lastName: String): void  + getRole(): String  + setRole(role: String): void  + getBranchId(): int  + setBranchId(branchId: int): void |