

Assignment 6

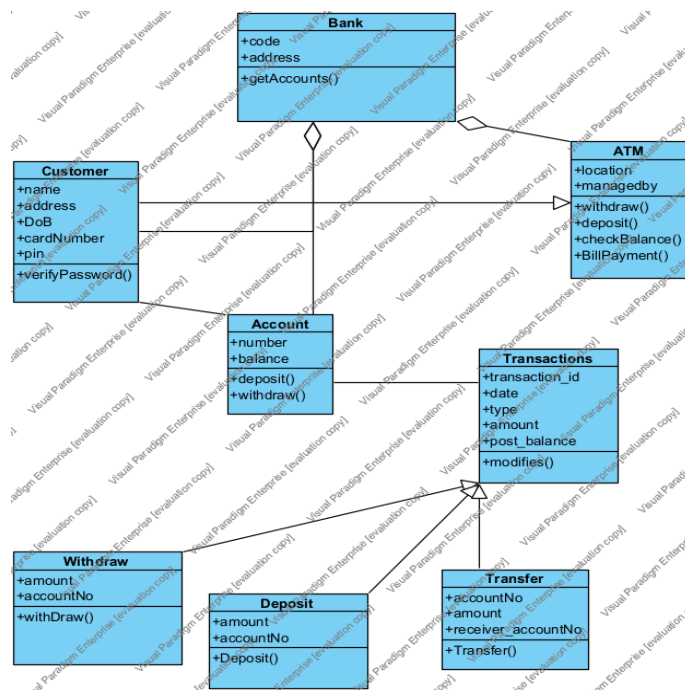
Software Engineering CS328

**Architecture, Class Diagram & Its Implementation
(JAVA)**

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1 Class Diagram



2 Implementation in JAVA

2.1 Bank Class

```
public class Bank {  
  
    public int code;  
    public int address;  
  
    public void getAccounts() {  
        // TODO - implement Bank.getAccounts  
        throw new UnsupportedOperationException();  
    }  
  
}
```

2.2 Account Class

```
public class Account {  
  
    public int number;  
    public int balance;  
  
    public void deposit() {  
        // TODO - implement Account.deposit  
        throw new UnsupportedOperationException();  
    }  
  
    public void withdraw() {  
        // TODO - implement Account.withdraw  
        throw new UnsupportedOperationException();  
    }  
  
}
```

2.3 ATM Class

```
public class ATM {  
  
    public int location;  
    public int managedby;  
  
    public void withdraw() {  
        // TODO - implement ATM.withdraw  
        throw new UnsupportedOperationException();  
    }  
  
    public void deposit() {  
        // TODO - implement ATM.deposit  
        throw new UnsupportedOperationException();  
    }  
  
}
```

```

    public void checkBalance() {
        // TODO - implement ATM.checkBalance
        throw new UnsupportedOperationException();
    }

    public void BillPayment() {
        // TODO - implement ATM.BillPayment
        throw new UnsupportedOperationException();
    }
}

```

2.4 Customer Class

```

public class Customer extends ATM {

    public int name;
    public int address;
    public int DoB;
    public int cardNumber;
    public int pin;

    public void verifyPassword() {
        // TODO - implement Customer.verifyPassword
        throw new UnsupportedOperationException();
    }
}

```

2.5 Deposit Class

```

public class Deposit extends Transactions {

    public int amount;
    public int accountNo;

    public Deposit() {
        // TODO - implement Deposit.Deposit
        throw new UnsupportedOperationException();
    }
}

```

2.6 Transactions Class

```

public class Transactions {

    public int transaction_id;
    public int date;
    public int type;
    public int amount;
    public int post_balance;
}

```

```

    public void modifies() {
        // TODO - implement Transactions.modifies
        throw new UnsupportedOperationException();
    }
}

```

2.7 Transfer Class

```

public class Transfer extends Transactions {

    public int accountNo;
    public int amount;
    public int receiver_accountNo;

    public Transfer() {
        // TODO - implement Transfer.Transfer
        throw new UnsupportedOperationException();
    }

}

```

2.8 Withdraw Class

```

public class Withdraw extends Transactions {

    public int amount;
    public int accountNo;

    public void withDraw() {
        // TODO - implement Withdraw.withDraw
        throw new UnsupportedOperationException();
    }

}

```