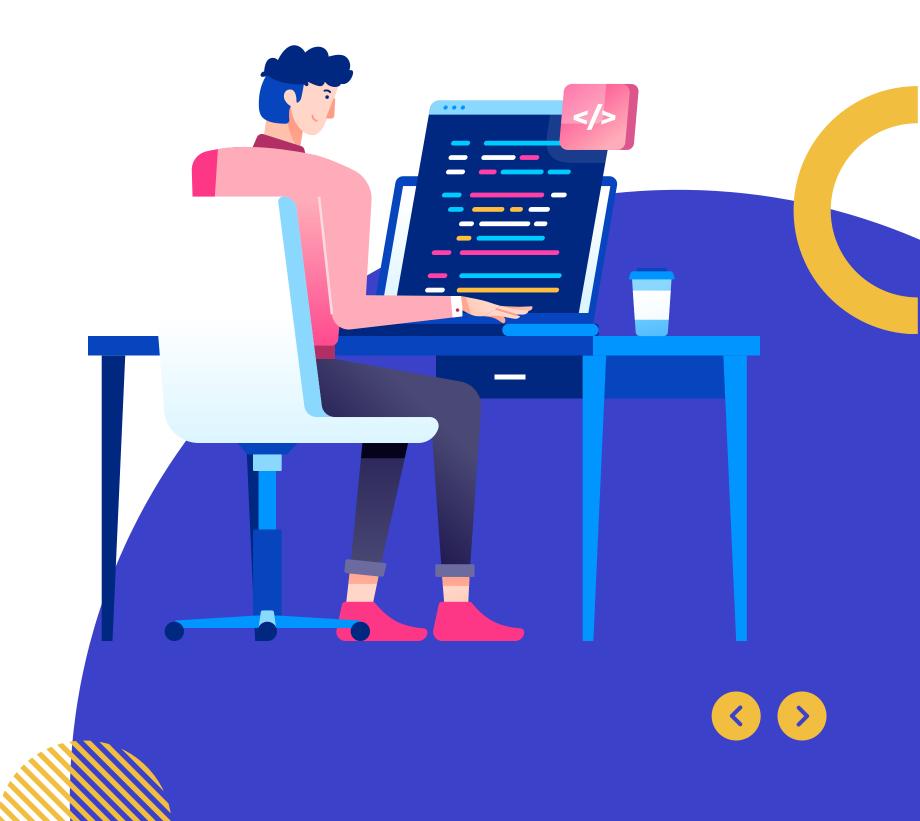
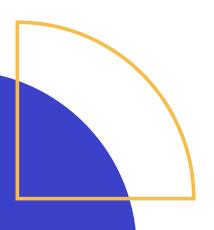


MECH BANK

BANK SYSTEM

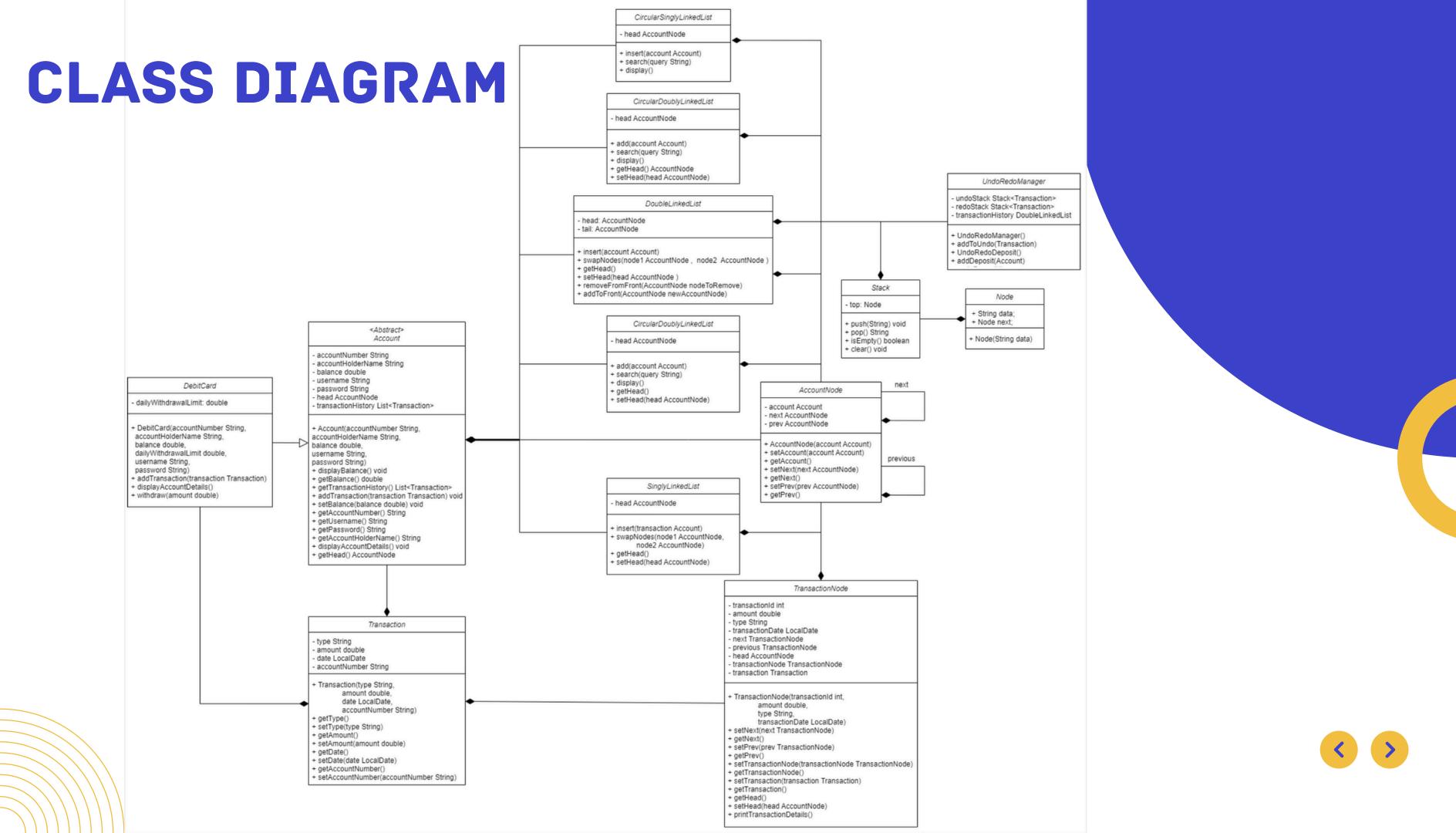
Hans Kristian
Mathew Sebastian
Erikson Tandanu
San Cornelius





THE METHOD THAT USE MECH BANK SYSTEM

- Inheritance: allows inheriting methods and data from a class (superclass or parent class) to a new class (subclass or child class).
- Polymorphism: allows flexibility and ease in software development.
- Encapsulation: all data in the bank is confidential, therefore we use encapsulation in each class to maintain the confidentiality of each attribute in the class.
- **Abstraction:** to overcome complexity by removing unimportant information from the user.
- Linked List:
 - Singly Linked List: we use a singly linked list to keep track of deposit and withdrawal information.
 - Doubly Linked List: to hold all of the transaction data, so user can check each transaction one by one,
 - Circular Doubly Linked List: to hold all the user's data. It's like having a circle of information where you can move both forward and backward through the data, and it never ends. It helps us manage and access user data efficiently.
 - Stack: data structure that follows the Last In, First Out (LIFO) principle
 - Queue: data structure that follows the First In, First Out (FIFO) principle,



LOGIN/SIGN UP MENU

```
WELCOME TO MECH BANK
```

- 1. LOGIN
- 2. SIGNUP
- 3. KELUAR

CHOICE: 2

PLEASE ENTER YOUR PERSONAL INFORMATION TO SIGN UP

NAME : Matthew USERNAME : Matthew PASSWORD : qwerty123

ENTER BALANCE FOR DEBIT \$ 1000

ENTER LIMIT WITHDRAWAL FOR DEBIT \$ 100

SIGN UP WAS SUCCESSFUL, PLEASE LOGIN TO MAKE A TRANSACTION

WELCOME TO MECH BANK

- 1. LOGIN
- 2. SIGNUP
- KELUAR

CHOICE: 1

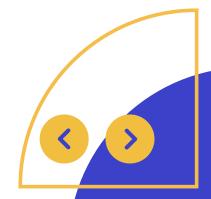
USERNAME : Matthew PASSWORD : qwerty123 LOGIN SUCCESSFUL

SIGN UP WAS SUCCESSFUL, PLEASE LOGIN TO MAKE A TRANSACTION

WELCOME TO MECH BANK

- 1. SHOW ACCOUNT DETAIL
- 2. DEPOSIT
- 3. WITHDRAW
- 4. CANCEL TRANSACTION
- 5. TRANSACTION HISTORY
- 6. FIND ANOTHER ACCOUNT
- 7. ASK QUESTIONS
- 8. EXIT

CHOICE :



SHOW ACCOUNT DETAIL

WELCOME TO MECH BANK

- 1. SHOW ACCOUNT DETAIL
- DEPOSIT
- 3. WITHDRAW
- 4. CANCEL TRANSACTION
- 5. TRANSACTION HISTORY
- 6. FIND ANOTHER ACCOUNT
- ASK QUESTIONS
- 8. EXIT

CHOICE: 1

Debit Card Details

Account Number : AC_35281
Account Name : Matthew
Balance : \$ 1000.0

Withdrawal Limit : \$ 100.0/Days

DEPOSIT

```
WELCOME TO MECH BANK

1. SHOW ACCOUNT DETAIL

2. DEPOSIT

3. WITHDRAW

4. CANCEL TRANSACTION

5. TRANSACTION HISTORY

6. FIND ANOTHER ACCOUNT

7. ASK QUESTIONS

8. EXIT

CHOICE: 2

DEPOSIT AMOUNT $ 1000

==== DEPOSIT SUCCESSFUL =====

( New balance $ 2000.0 )
```







WITHDRAW

```
WELCOME TO MECH BANK

    SHOW ACCOUNT DETAIL

DEPOSIT
3. WITHDRAW
4. CANCEL TRANSACTION
5. TRANSACTION HISTORY
FIND ANOTHER ACCOUNT
ASK QUESTIONS
8. EXIT
CHOICE: 3
WITHDRAWAL AMOUNT $ 1000
==== WITHDRAWAL SUCCESSFUL ====
( Remaining balance $ 1000.0 )
```

TRANSACTION HISTORY

```
WELCOME TO MECH BANK
1. SHOW ACCOUNT DETAIL
DEPOSIT
WITHDRAW
4. CANCEL TRANSACTION
5. TRANSACTION HISTORY
6. FIND ANOTHER ACCOUNT
7. ASK QUESTIONS
8. EXIT
CHOICE: 5

    DEPOSIT

2. WITHDRAW
3. ALL
4. BACK
CHOICE: 1
DEPOSIT TRANSACTION HISTORY
Account Number : AC_35281
Transaction Code: ed307172 - Deposit - 2024-05-28
                : Deposit
                $ 1000.0
Amount
                : 2024-05-28
1. DEPOSIT
2. WITHDRAW
3. ALL
4. BACK
CHOICE: 2
WITHDRAW TRANSACTION HISTORY
Account Number : AC_35281
Transaction Code: c3896dad - Withdrawal - 2024-05-28
                : Withdrawal
Type
                $ 1000.0
                 : 2024-05-28
```





FIND ANOTHER ACCOUNT

WELCOME TO MECH BANK

- 1. SHOW ACCOUNT DETAIL
- 2. DEPOSIT
- 3. WITHDRAW
- 4. CANCEL TRANSACTION
- 5. TRANSACTION HISTORY
- 6. FIND ANOTHER ACCOUNT
- ASK QUESTIONS
- 8. EXIT

CHOICE: 6

Masukkan nama atau nomor rekening : Hans

Account ditemukan : Debit Card Details

Account Number : AC_61078

Account Name : Hans

Balance : \$ 1000.0

Withdrawal Limit : \$ 100.0/Days







