

Requirement Elicitation

➤ Functional requirement

- ◆ Teller open accounts for Customer and provide account credentials
- ◆ Account management
- ◆ Transaction; DEPOSIT :ability to deposit funds into any account
WITHDRAWAL: only for investment & cheque
- ◆ Automatically apply monthly interest to savings and investment account based on interest rate and balance of each accounts
- ◆ System must maintain & display a history of deposit, withdrawals and interest payment for each account
- ◆ User authentication for Customers & Tellers,
- ◆ View balances per account.

➤ Non-Functional requirement

- ◆ Security
- ◆ usability
- ◆ maintainability
- ◆ Performance(transaction must process in under 5 seconds)

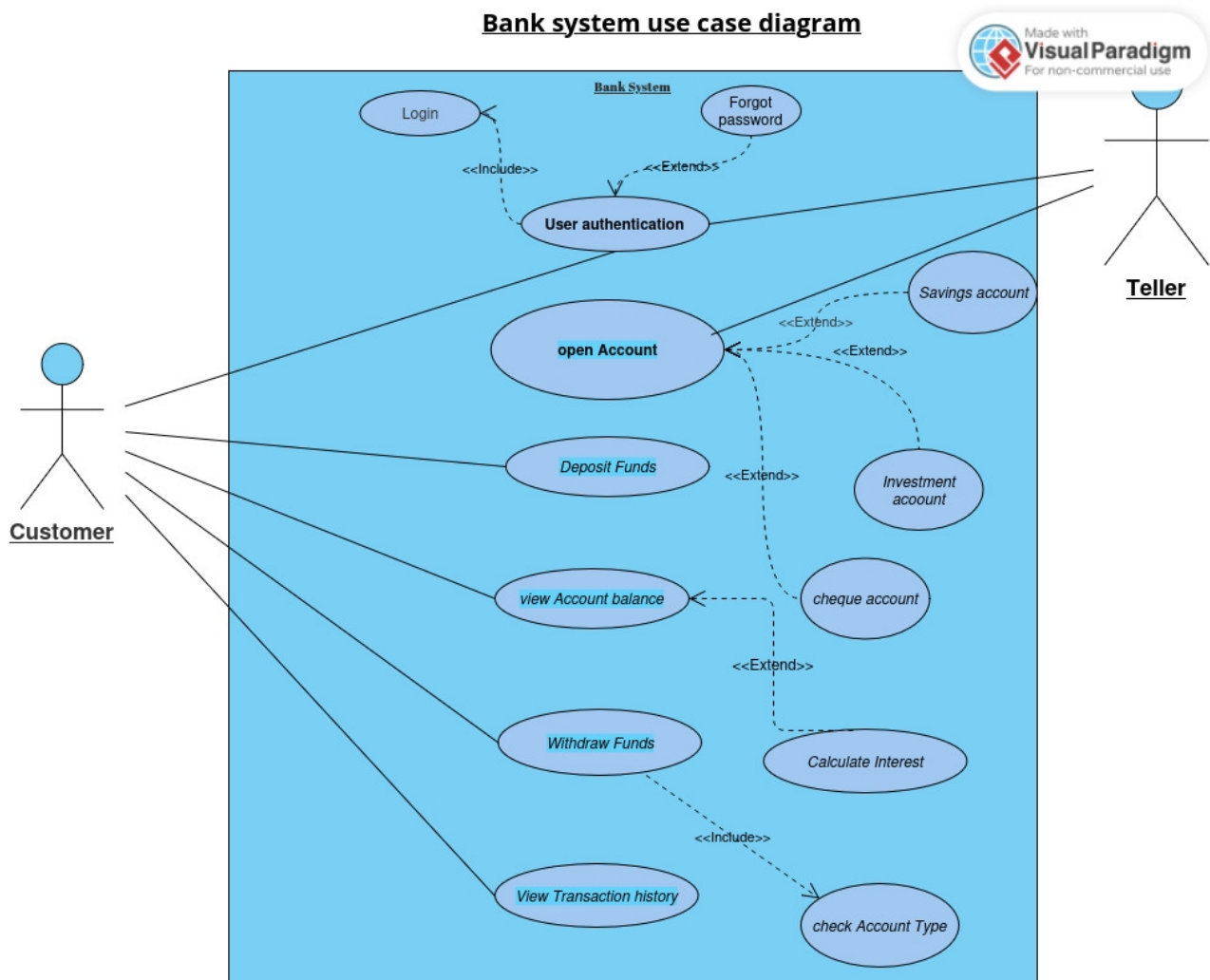
➤ Interview records

- ◆ **Date:** 18/09/2025
- ◆ **Time:** 10:30–11:30
- ◆ **Interviewer:** Mr Johanson Karabo Sebudi
- ◆ **Interviewee:** Mr **Kentsenao Baseki**
- ◆ **Topic:** Requirements Engineering (Object Oriented Banking System)

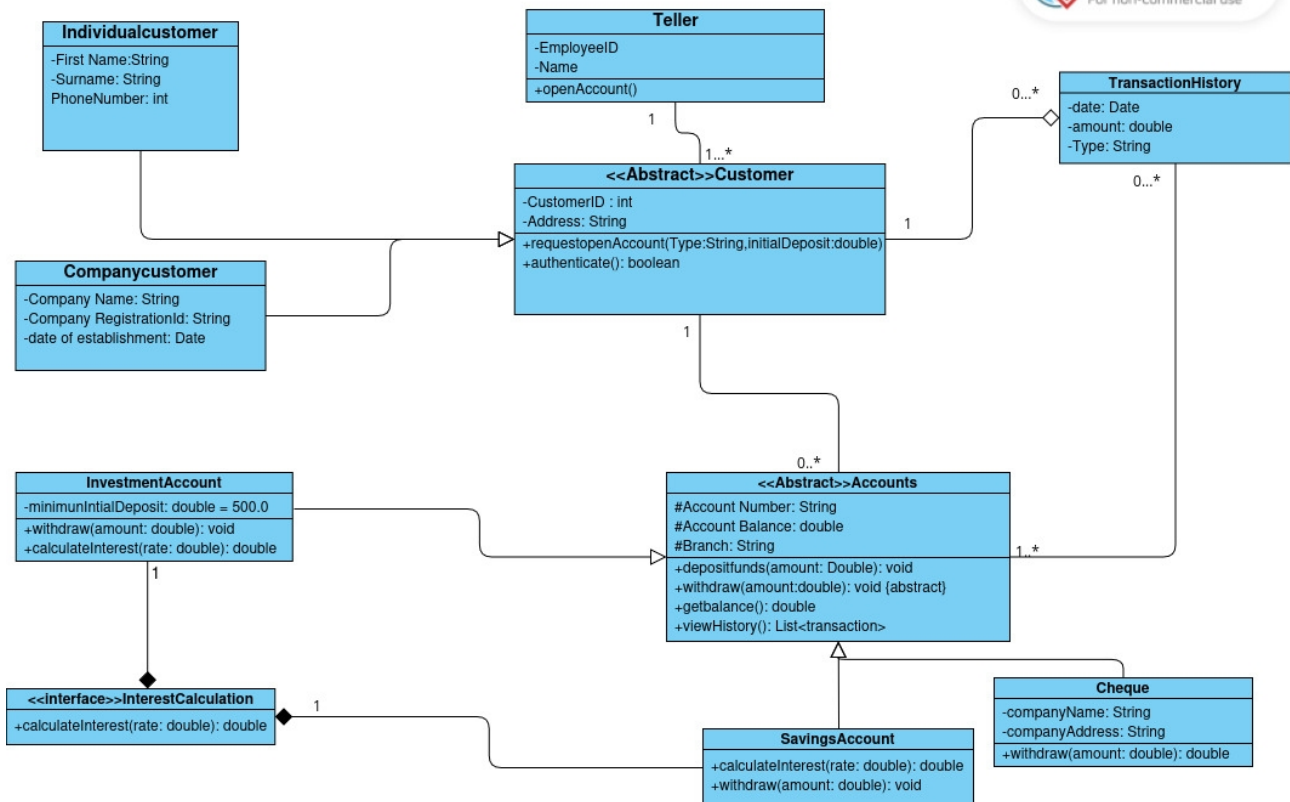
Q&A

- Q: Any opening constraints?
A: Investment requires at least BWP 500 initial deposit; Cheque requires employment details (company name & address).
- Q: Interest policy?
A: Monthly: Investment **5%**, Savings **0.025% for** individuals and 0.075 for companys; Cheque none.
- Q: Can customers have multiple accounts?
A: Yes—one or more of any type.

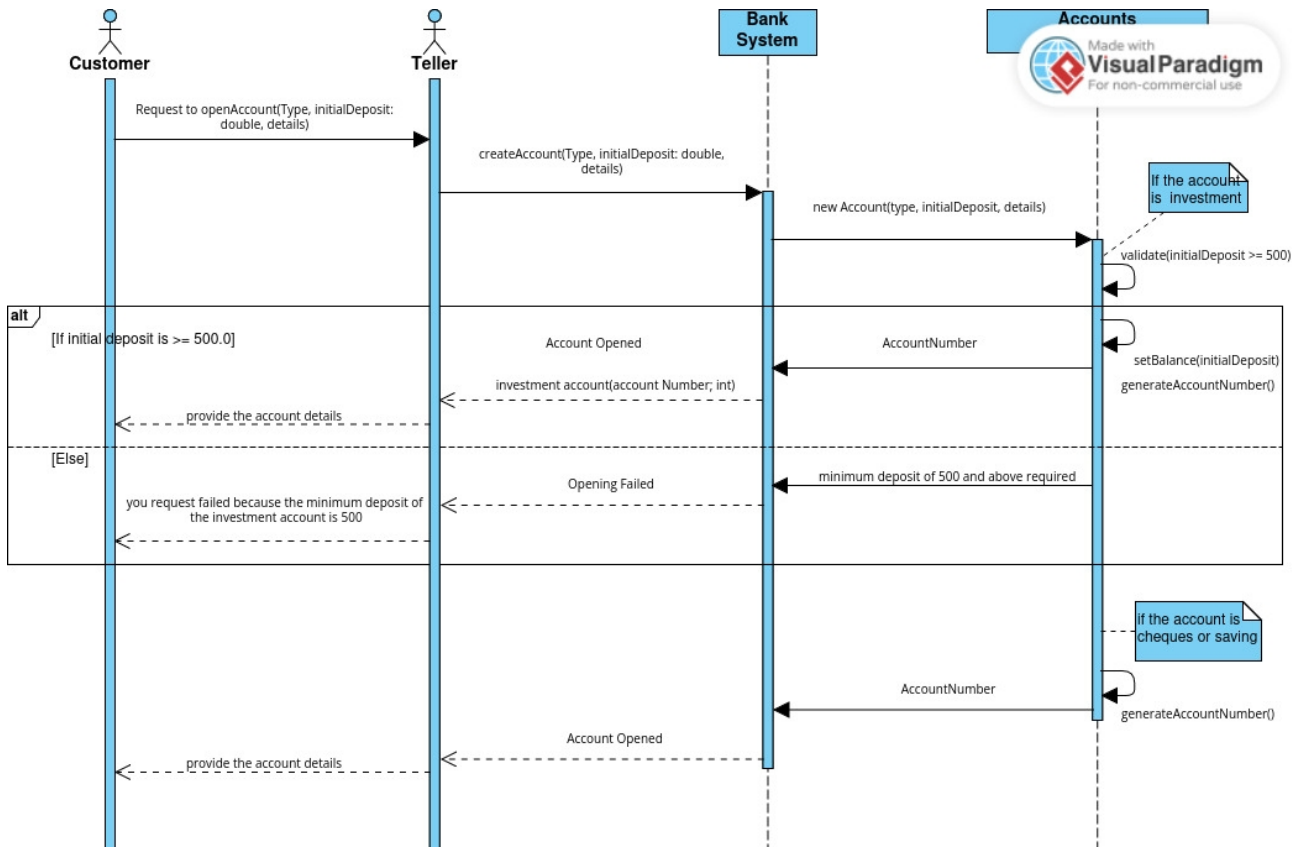
➤ Structural UML Modelling



Bank system Class Diagram

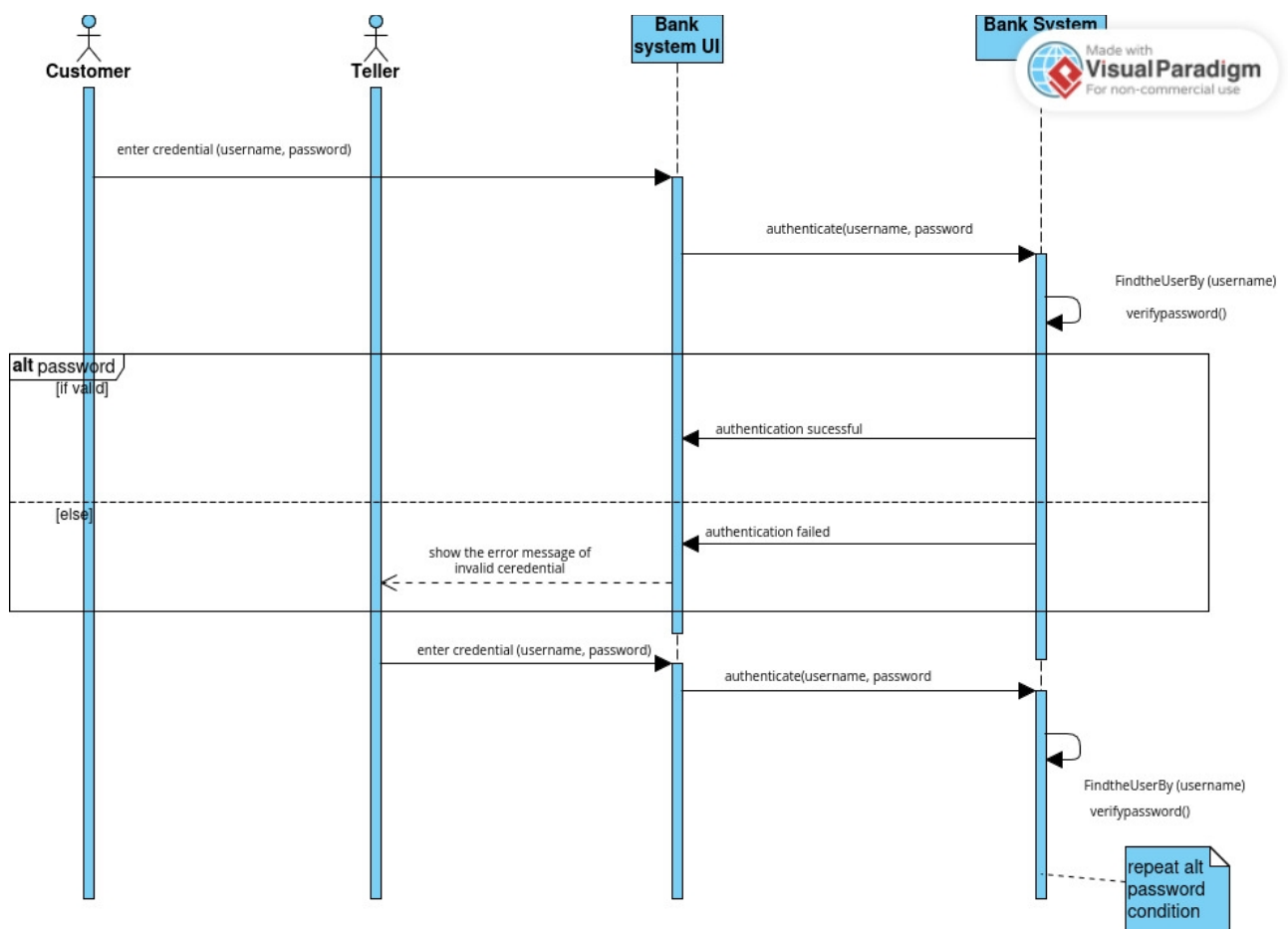


➤ Behavioural UML Modelling



Sequence Diagram: OPENING ACCOUNT

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Sequence Diagram: LOGIN

