Bank Application

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Version 1.0

Background

Problem Statement: We need a new way to create, monitor, and transact with customer bank accounts.

Objectives:

* Fully computerized, no more manual/paper transactions
* Provide accuracy in accounting for withdrawals and transactions

Functional Overview

The application will allow for user accounts to be stored in a database, keep track of transactions such as deposits and withdrawals, and maintain data integrity – account #1 only has 1 account associated.

Functional Requirements

User roles: At this point in time, the application will be run on a local machine, where the only user will be a bank teller transacting upon customer accounts.

Use Case 1: Create an account

Actor: Teller

Description: The teller should be able to create an account at the request of a customer

Preconditions: none

Postconditions: An account is created and stored in the database

Flow:

1. Teller opens application
2. Clicks “create account”
3. Fills in the required fields
4. System validates account number is not taken
5. System creates account and stores in DB
6. Confirmation

Use Case 2: Deposit

Actor: Teller

Description: User can deposit money into the account, which increases the balance.

Preconditions: Customer must have an existing account

Postconditions: The transaction is recorded, and the balance is updated

Functional Flow:

1. Teller types in account number and amount to deposit
2. Teller clicks deposit
3. System verifies account exists
4. Systems adds deposited amount to preexisting amount in account

Use Case 3: Withdrawal

Actor: Teller

Description: User can withdrawal money from the account, which decreases the balance.

Preconditions: Customer must have an existing account

Postconditions: The transaction is recorded, and the balance is updated

Functional Flow:

1. Teller types in account number and amount to withdrawal
2. Teller clicks withdrawal
3. System verifies account exists
4. System verifies withdrawal amount does not exceed existing balance
5. Systems subtracts withdrawn amount from preexisting amount in account