Logo

Description automatically generated

**22/SU-COP-2805C-72035 Java Programming**

**Exercise 9.7**

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# Document Version Control

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# Document Purpose

The purpose of this document is to define the Account() class.

# Technical Specifications

## Purpose of Technical Implementation

The purpose of this implementation is to have a class named Account() that creates an account for the user.

## Technical Implementation Components

The class has two constructors. The first takes no arguments but will set the date the instance the object was created.

*Account*(){

*setDateCreated*();

}

The second constructor takes two arguments. The first is the ID for the specified account and the second is the starting balance.

*Account*(int id, double initalBalance){

    this.*id* = id;

    this.*balance* = initalBalance;

*setDateCreated*();

}

The class also has multiple methods that can be used to:

Deposit:

*public* double *deposit*(double depositAmount){

*return* this.*balance* = this.*balance* + depositAmount;

}

Withdraw:

*public* double *withdraw*(double withdrawAmount){

*return* this.*balance* = this.*balance* - withdrawAmount;

}

Acquire monthly interest rate:

*public* double *getMonthlyInterestRate*(){

*return* (this.*annualInterestRate* / 12) / 100;

}

Acquire monthly interest:

*public* double *getMonthlyInterest*(){

*return* this.*balance* \* *getMonthlyInterestRate*();

}

## Account Implementation

The implementation of this class allows the user to created new object from the Account() class that will store account information and display the price-change if the account is deposited/withdrawn to or from. The class also includes the interest rates for the given instance and will provide updated values of the remaining balance.