

**OBJECT-ORIENTED PROGRAMMING**  
**TEAM08-ROCKET TEAM**

**ALAN SHUGULI**  
**7490**

**UMLDIAGRAM**

**OBJECTS:**

**1. Profile**

**Attributes**

name: string

age: int

ID: int

password: int

**Operations**

Functions to change password

Profile
name: string age: int id: int password: int
-changePassword ():void

**2. Account**

**Attributes**

balance inquiry: float

withdrawals: float

savings: float

current: float

CDT: float

transfer: float

**Operations**

Options menu for user to choose

ACCOUNT
balance inquiry: float withdrawals: float savings: float current: float CDT: float transfer: float
requestBalanceInquiry():void

seeWithdraws():void transfer():void
--

### 3. Savings Account

#### Attributes

- account number:string
- deposit date:string
- retirement date:string

#### Operations

- deposit():void
- retirement():void
- transfer():void

SavingsAccount
-accountNumber:string -depositDate: arreglo -retirementDate: arreglo
-deposit():float -withdraw():float -transfer():float -interestGenerated (): float verbo

### 4. Checking Account

#### Attributes

- account number:string
- advance date:string
- transfer date:string
- money withdraw:float

#### Operations

- deposit():void
- advance():void
- transfer():void

CheckingAccount
-accountNumber:string -advanceDate:string arreglo -moneyWithdraw:arreglo
-deposit():float

-advance():float -transfer():float
---------------------------------------

## 5. CDT

### Attributes

Investment money: float

Interest rate: float

Gain: float

Time: int

CdtAccount
investmentMoney: float interestRate: float gain: float timeInDays: int
-calculateCdt (): float

### Operations

Calculate cdt generated annually

## 6. Interest

### Attributes

interest: float

### Operations

the user receives a monthly interest for the balance have in their savings account

Interest
interest: float
-generatedInterestSavings(): void

## 7. Guide

### Attributes

account management:string

savings account:string

current account :string

cdt account :string

interest management:string

### Operations

Guide for the user to learn to manage her account

Guide
accountManagement:string savingsAccount:string currentAccount :string cdtAccount :string interestManagement:string
learnAccount(): void learnSavings(): void learnChecking(): void learnCdt(): void learnInterest():void

## 8. Profit

### Attributes

check amount saving :float

month: int

### Operations

function to see the money generated in the checking account: savings and current

Profit
savingsTotal :float checkingTotal: float
-seeSavings(): float -seeCurrent(): float

## 9. Management

### Attributes

checks status: string/void

entry: float

transaction:float

### Operations

functions to register the input and output and what had been the changes made to the account

Management
-checks status: string +income:float +transaction:float

-checkAccount(): void -registIncome():void -registTransaction():void -manageAcc():void
---

## 10. Money

### Attributes

minimum value: float

maximum value: float

### Operations

estimate a minimum value and a maximum value to deposit, transfer and withdraw money

Money
minValue: float maxValue: float
estimateMaximun(): void estimatedMinumun ():void