Hog Bank

# Overview

Hog Bank is an entrepreneur’s idea to create a local bank that serves UA students. The proposed business model: customers can deposit and withdraw from the location or online. They can also sign up for various investing opportunities or loan opportunities.

# **BUSINESS PROBLEM**

To support the operations, Hog Bank should track basic customer account information, investment and loan data, and transactions.

Your team has been hired as the consulting team to develop:

* **Option 1**: Customer interface (ATM / online)

-OR-

* **Option 2**: Internal / Operational interface (Bank Manager / Teller)

Additional information:

* We must keep track of inventory (cash) and all updates to ensure that things are kept in regulation.
* Customers enter the bank or go to their online portal. From here, they can make deposits into their bank account or withdrawals.
* Customers can track their account balance.
* Customers can apply for various loans or investment opportunities.

# SYSTEM / DATA REQUIREMENTS

The following information may be required to create, maintain and track important components of the banking business. Depending on the proposed model, more components (both entities and attributes) may need to be introduced.

* **Customer**: Customer Id, first & last name, address (for mailings), phone numbers, e-mail address, status (Juicy perks, inactive, guest), join date, other authorized users on the account, etc.
* **Building**: Building number, Branch name, address, phone number, e-mail, contact person, web site, etc.
* **Employee**: Employee Id, first & last name, address, phone numbers, e-mail address, status (current, terminated, etc.), type, hourly rate, hire date, etc.
* **Accounts**: Account\_ID, balance
* **Loans**: Loan\_Id, Name, Type, Cost, Interest, Balance
* **Investments**: Investment\_ID, Name, Type, Current\_Balance, Interest

# System REQUIREMENTS

The system that you develop in this class may include:

* Operational requirements
  + Deposit and withdraw money
  + Sign up for an investment or a loan
  + Add/edit/delete customers
  + Add/edit/delete investments and/or accounts
  + Add/edit/delete employees
* Reporting
  + Generate a loans and investments report
  + Generate a basic customer profile
  + Employee reports (Hires, terminations, etc.)