

# Bank Accounting



## Introduction

Watson bank was established December 15, 2019 and soon enough they became the most popular bank in Jacksonville. Why? Well, they had some innovations in mind. Instead of using paper in accounting procedures, they decided to trend towards automation systems. However a problem just showed up out of the blue. Their client systems went down and they've decided to choose you to make a new client software for them. Don't worry, it's a piece of cake.

## Specification

Now let's dive deep. Watson bank already has a server running, holding their bank data. The software you create has to communicate with the server to send and receive data. In this bank system:

- Each bank account has an account number which is unique
- Each bank account has 3 states: Open, Closed, and Blocked
- Each bank account has an account owner
- Each account owner can have multiple bank accounts
- Each account owner can request for a new account under his/her name

- To transfer or receive money from an account you have to create transactions.
- Transactions can be between two bank accounts, or including a single bank account in cases of transferring cash or receiving cash
- Each bank account also has logs including the amount and time of every transaction in which that account has taken part
- Your software should be able to get those logs and create a financial chart out of it for Each bank account whenever the account owners want to
- Your software will be used by bank clerks hence security matters. This means each bank clerk has a username and password by which can login to the software and access the features (this means none of the features above can be accessed without authentication)
- Bank clerks can create staff account for new clerks to use the system as well
- Bank clerk can get a list of all bank accounts, account owners, and transactions

## First things first

To provide the mentioned features, you have to make a request to the server using python in order to get data or send data. For sending data, server needs a POST request and for receiving data, servers needs a GET request. The server also has an interface called REST API which will be explained deeply later. So don't worry if you don't know how to interact with the server yet. All you have to do for now is to search about the data we just provided. We'll keep you updated as soon as watson bank sends us its API documentation

**Good Luck**