

Backend Mini Project (Bank Account)

The goal of this mini project is to write a simple micro web service to mimic a “Bank Account”. Through this web service, one can query about the balance, deposit money, and withdraw money. Just like any Bank, there are restrictions on how many transactions/amounts it can handle. The details are described below.

- Write a simple “Bank Account” web service using REST API design principles. You can use either the CodeIgniter or Laravel framework.
 - Program should have 3 REST API endpoints: Balance, Deposit, and Withdrawal
 - No requirement for authentication - assume the web service is for one account only and is open to the world
 - No requirement for the backend store - you can store it in a file or database (your decision)
 - Balance endpoint - this will return the outstanding balance
 - Deposit endpoint - credits the account with the specified amount
 - Max deposit for the day = \$150K
 - Max deposit per transaction = \$40K
 - Max deposit frequency = 4 transactions/day
 - Withdrawal endpoint - deducts the account with the specified amount
 - Max withdrawal for the day = \$50K
 - Max withdrawal per transaction = \$20K
 - Max withdrawal frequency = 3 transactions/day
 - Cannot withdraw when balance is less than withdrawal amount
- The service should handle all the error cases and return the appropriate error HTTP status code and error message (Eg. If an attempt is to withdraw greater than \$20k in a single transaction, the error message should say “Exceeded Maximum Withdrawal Per Transaction”).
- Write tests against your web service.
- Make sure your code is readable and can be run.
- Check in your code to github and write instructions on readme on how to run.

Share with us the github repository via this email: wesley@pezesha.com, cc: hilda@pezesha.com, and we will review your project from there.