

The logo for SYB Bank is displayed in white on a black background. The text "SYB Bank" is written in a serif font. The word "SYB" is in all caps, and "Bank" is in title case. A white, hand-drawn style oval encircles the word "Bank".

SYB Bank

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Problem Statement

A banking/accounting database system that allows customers to create accounts and make transactions such as deposits, withdrawals, and transfers, as well as allows accountants to manage customers and approve transactions.

Functional Requirements

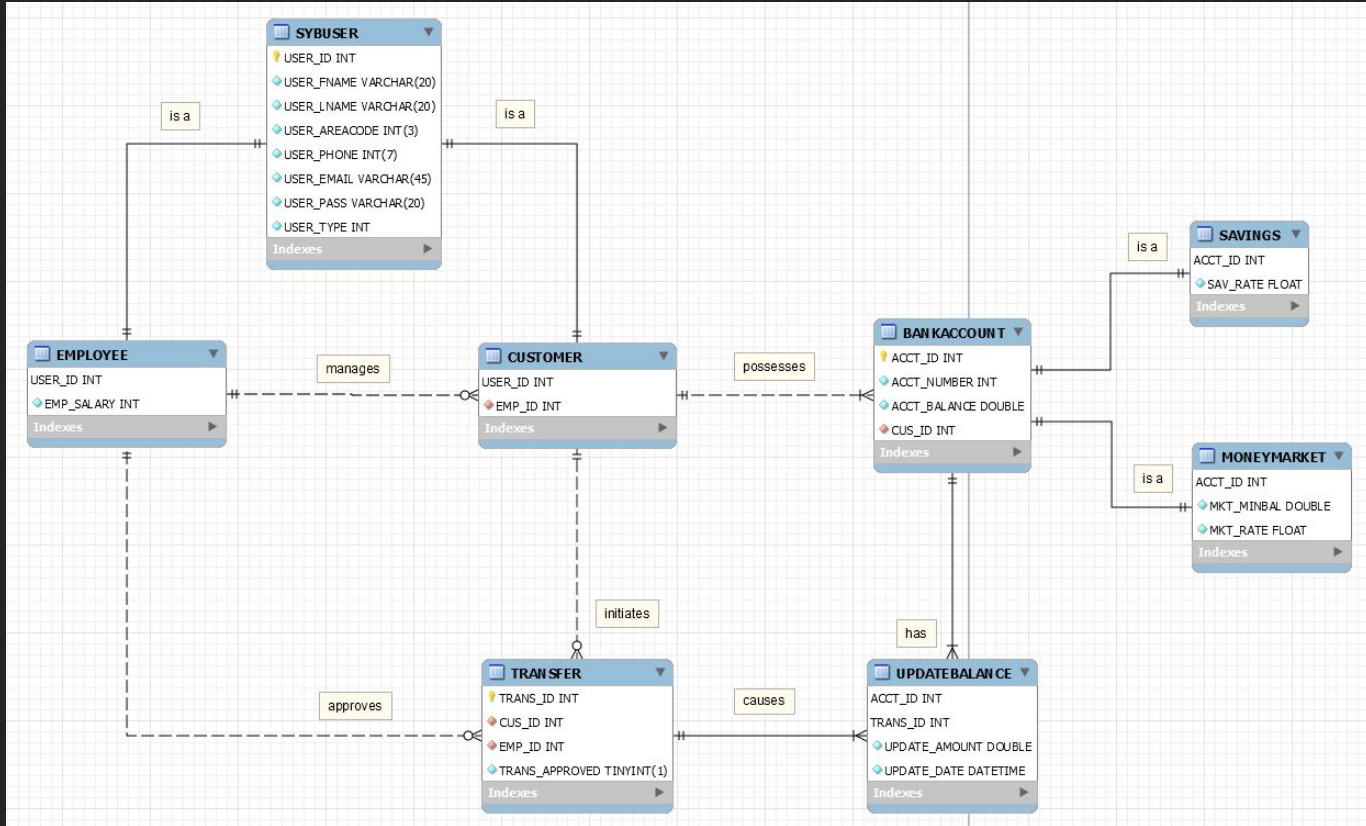
Employee

- Manage customers (add, update and delete customer information)
 - Tables: CUSTOMER
 - Input: customer first name, customer last name, customer area code, customer phone, customer email, customer password
- Approve transactions
 - Tables: TRANSACTION
 - Input: transaction ID, transaction approved

Customer

- Create a bank account
 - Tables: BANKACCOUNT, SAVINGS, MONEYMART
 - Input: account number, account balance, account type
 - Output: bank account added to BANKACCOUNT table and SAVINGS or MONEYMART tables where applicable
- Delete a bank account
 - Tables: BANKACCOUNT, SAVINGS, MONEYMART
 - Input: account number
 - Output: bank account corresponding to account number will be deleted where applicable
- Initiate transactions (update account balance)
 - Tables: TRANSACTION, UPDATE, BANKACCOUNT
 - Input: transaction amount, source account ID, target account ID, date
 - Output: new account balance
- Retrieve account balance
 - Tables: BANKACCOUNT
 - Input: account ID
 - Output: account balance
- Retrieve transaction information
 - Tables: UPDATE
 - Input: account ID, transaction ID
 - Output: transaction type, transaction amount, source account ID, target account ID, date

ER Diagram



Technologies & Tools

Frontend

ReactJS

JSS

JSX

Backend

Python

Flask

Database

MySQL

AWS

Misc

GitHub

Google Drive

Project Walk Through

Sources

- <https://reactjs.org/docs/getting-started.html>
- <https://flask.palletsprojects.com/en/1.1.x/>
- <https://www.selenium.dev/>
- <https://stackoverflow.com/>
- <https://dev.mysql.com/doc/>