Feature Design Document (FDD)

Database (SQL Table Creation)

Customer Table
- username
- password
- customer_id
- timestamp

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One To Many
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Accounts
- customer_id
- account_id
- name
- Balance
- account_type

Database Access Objects (Python)

SQLUtils
- connect()

CustomerDao
- getCustomerById() - Create object associated with it
- getAccountsByCustomerId() - List of accounts
- createUser()
- login()
- logout()

AccountDao
- getAccountById() - Create object associated with Account
- deposit()
- withdraw()

REST Endpoints

POST /register
{ username: string, password: string }

POST /login
{ username: string, password: string }

POST /account
{ name: string, balance: float, account_type: string }

GET /customer/:customer_id

GET /accounts/:customer_id

GET /account/:account_id

POST /account/:account_id/withdraw
{ amount: float }

POST /account/:account_id/deposit
{ amount: float }

Architecture

Database: MySQL
Backend: Flask
Frontend: Jinja2