

A MINI CORE BANKING SYSTEM (CBS)

This project is a **Customer Banking System** built with **Spring Boot**, **Spring Security (JWT)**, and **MariaDB**. It allows:

- **Customer Management:** Create and manage customer profiles with personal details, and support bulk upload via CSV/Excel.
- **Account Management:** Each customer can hold one or more accounts, with the ability to create and retrieve account details.
- **Transactions:** Perform basic credit and debit transactions, automatically deducting applicable charges, and maintain a full transaction history per account.
- **Security & Roles:** Implements **JWT authentication** with role-based access control for **admin** and **user** permissions.
- **Database Optimization:** Uses optimized queries for handling transactions and bulk operations efficiently in **MariaDB**.
- Last it has API documentation using Swagger/OpenAPI.

Github liknk

https://github.com/mahmudhaji/cbs_repo.git

The screenshot shows a REST client interface with a POST request to `/api/accounts/transactions`. The parameters section contains the following fields:

| Name | Description |
|----------------------|-----------------|
| sourceAccountId | Integer (Long) |
| destinationAccountId | Integer (Long) |
| amount | Number (Double) |
| type | String |

The values entered are: sourceAccountId: 1, destinationAccountId: 2, amount: 100, and type: DEBIT. There are buttons for 'Execute' and 'Clear' at the bottom of the parameters section. The 'Responses' section is currently empty.

The screenshot shows the response of the POST request. The status code is 200. The response body is a JSON object:

```
{
  "id": 1,
  "sourceAccountId": 1,
  "destinationAccountId": 2,
  "amount": 100,
  "type": "DEBIT",
  "timestamp": "2019-09-20T10:11:17.444Z"
}
```

The response headers are:

```
Cache-Control: no-cache, no-store, max-age=0, must-revalidate
Content-Type: application/json
Date: Tue, 20 Sep 2019 11:11:17 GMT
Expires: 0
Server: Apache/2.4.18
Transfer-Encoding: chunked
Vary: Accept-Encoding
X-Frame-Options: DENY
X-XSS-Protection: 1
```