

# Online Banking Task

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## What Is Online Banking?

Online banking allows you to conduct financial transactions via the Internet. Online banking is also known as Internet banking or web banking.

Online banking offers customers almost every service traditionally available through a local branch including deposits, transfers, and online bill payments. Virtually every banking institution has some form of online banking you can access through a computer or app.

## Entities

Auth Entity

User Entity

Admin Entity

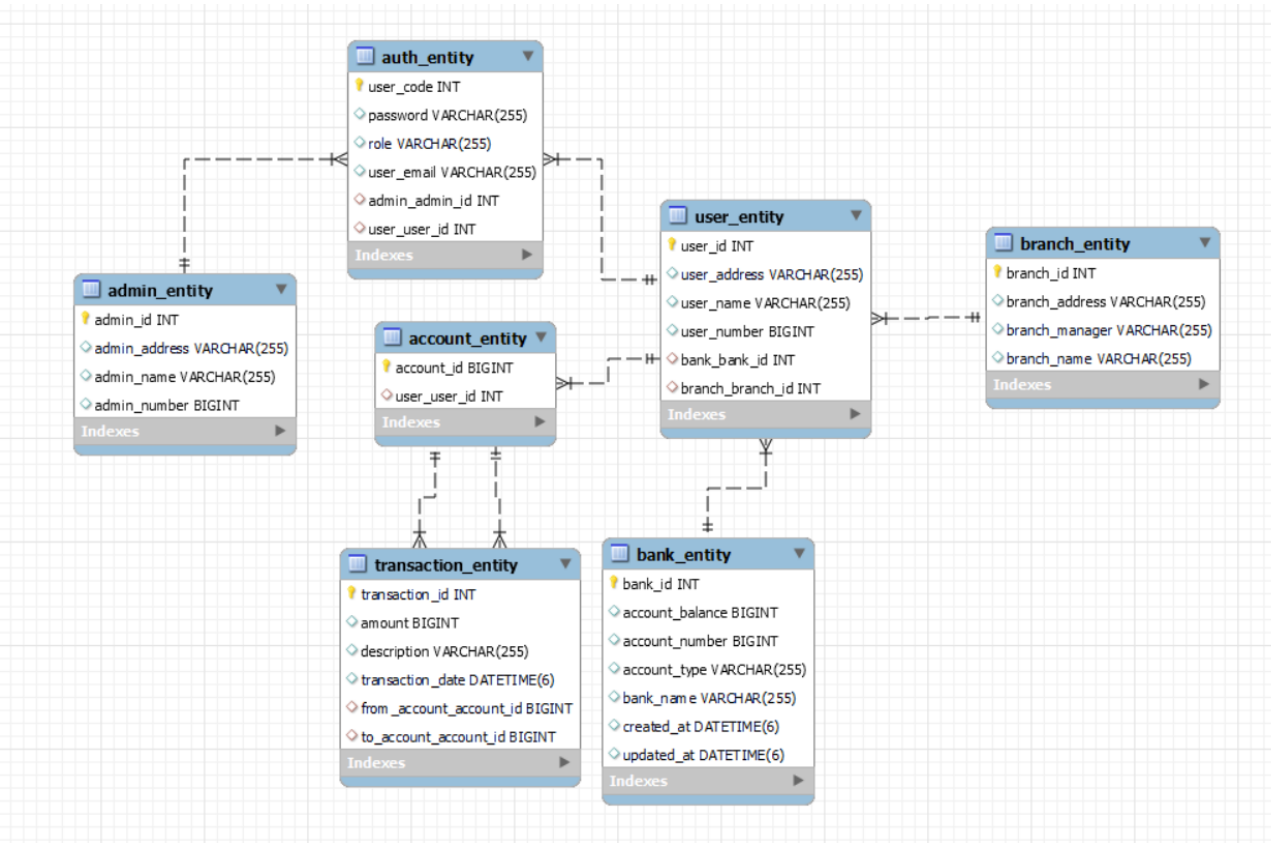
Account Entity

Bank Entity

Branch Entity

Transaction Entity

# Entity Relationship Diagram



# APIs

## Auth Entity :

- 1. Create Admin
- 2. Create Admin

## User Entity :

- 1. Update User
- 2. Update UserBank
- 3. Delete User

## Bank Entity :

- 1. Create Bank by Admin
- 2. Update Bank by User & Admin
- 3. View Bank using BankId
- 4. Delete Bank by Admin

## Branch Entity :

- 1. Create Branch by Admin
- 2. View Branch
- 3. Delete Branch by Admin

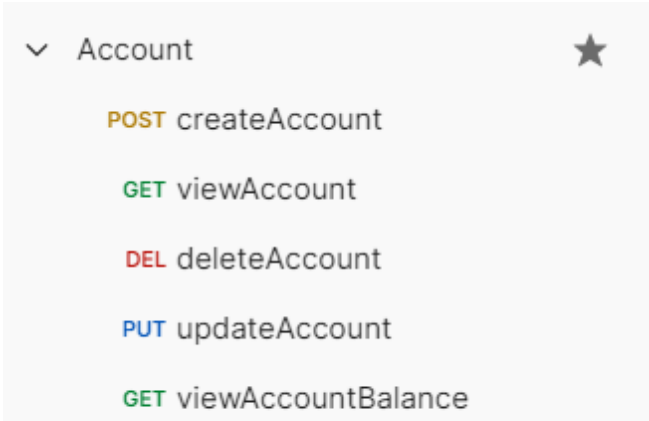
## Account Entity :

- 1. Create Account
- 2. Update Account
- 3. View Account
- 4. Delete Account
- 5. View Balance by UserId

## Transaction Entity :

- 1. TransactionMoney
- 2. View Transaction History by userId

# PostMan



▼ Admin ★

GET viewAdmin

DEL deleteAdmin

PUT updateAdmin

▼ Auth ★

POST createAdmin

POST createUser

▼ Bank ★

POST createBank

GET viewBank

DEL deleteBank

▼ Branch ★

POST createBranch

GET viewBranch

DEL deleteBranch

▼ Transaction ★

POST transferMoney

GET listOfTransaction

▼ User ★

GET createUser

DEL deleteUser

PUT updateUser

PUT updateBank

# Schemas

Swagger UI

localhost:8080/swagger-ui/index.html#/

Schemas

BankEntity {  
 bankId > [...]  
 bankName > [...]  
 accountNumber > [...]  
 accountBalance > [...]  
 accountType > [...]  
 createdAt > [...]  
 updatedAt > [...]  
}

BranchEntity {  
 branchId > [...]  
 branchName > [...]  
 branchManager > [...]  
 branchAddress > [...]  
}

UserEntity {  
 userId > [...]  
 userName > [...]  
 userNumber > [...]  
 userAddress > [...]  
 bank BankEntity > {...}  
 branch BranchEntity > {...}  
}

Swagger UI

localhost:8080/swagger-ui/index.html#/

AdminEntity {  
 adminId > [...]  
 adminName > [...]  
 adminNumber > [...]  
 adminAddress > [...]  
}

AccountEntity {  
 user UserEntity > {...}  
 accountId > [...]  
}

TransactionEntity {  
 transactionId > [...]  
 amount > [...]  
 description > [...]  
 transactionDate > [...]  
 fromAccount AccountEntity > {...}  
 toAccount AccountEntity > {...}  
}

AuthEntity {  
 userCode > [...]  
 userEmail > [...]  
 password > [...]  
 role > [...]  
 admin AdminEntity > {...}  
 user UserEntity > {...}  
}

ListOfTransaction {  
 paidTo > [...]  
 amount > [...]  
 transactionTime > [...]  
 debitedFrom > [...]  
 creditedTo > [...]  
}

# Swagger UI

Swagger UI

localhost:8080/swagger-ui/index.html#/

v3/api-docs

Explore

Servers

http://localhost:8080 - Generated server url

user-controller

PUT

/user/updateUser

PUT

/user/updateBank

GET

/user/viewUser

DELETE

/user/deleteUser

admin-controller

PUT

/admin/updateAdmin

GET

/admin/viewAdmin

DELETE

/admin/deleteAdmin

Swagger UI

localhost:8080/swagger-ui/index.html#/

account-controller

PUT

/account/updateAccount

POST

/account/createAccount

GET

/account/viewAccount

GET

/account/viewAccountBalance

DELETE

/account/deleteAccount

transaction-controller

POST

/transaction/transferMoney

GET

/transaction/listOfTransaction

branch-controller

POST

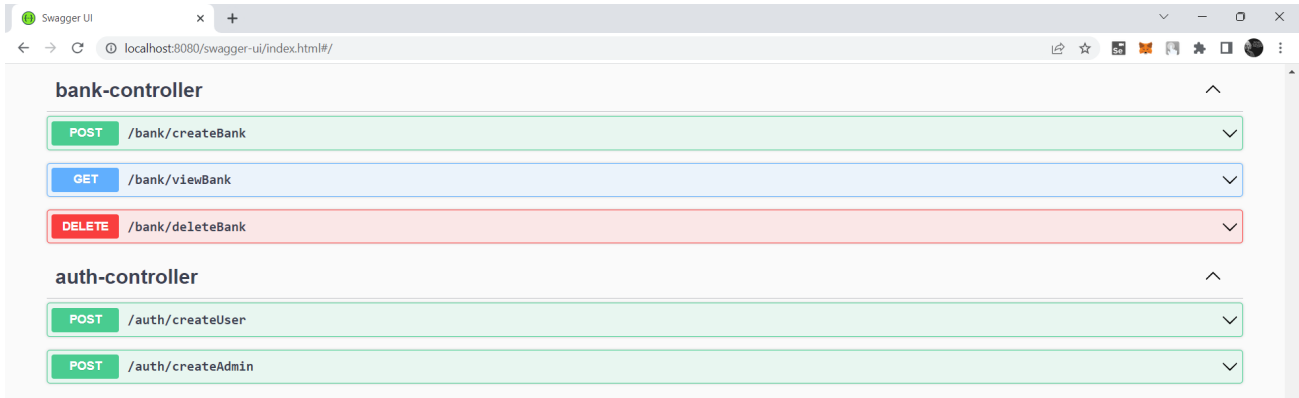
/branch/createBranch

GET

/branch/viewBranch

DELETE

/branch/deleteBranch



Thank you!

A blue feather graphic with a brown quill, positioned to the right of the 'Thank you!' text.