

# PROJET JEE



## DIGITAL BANKING

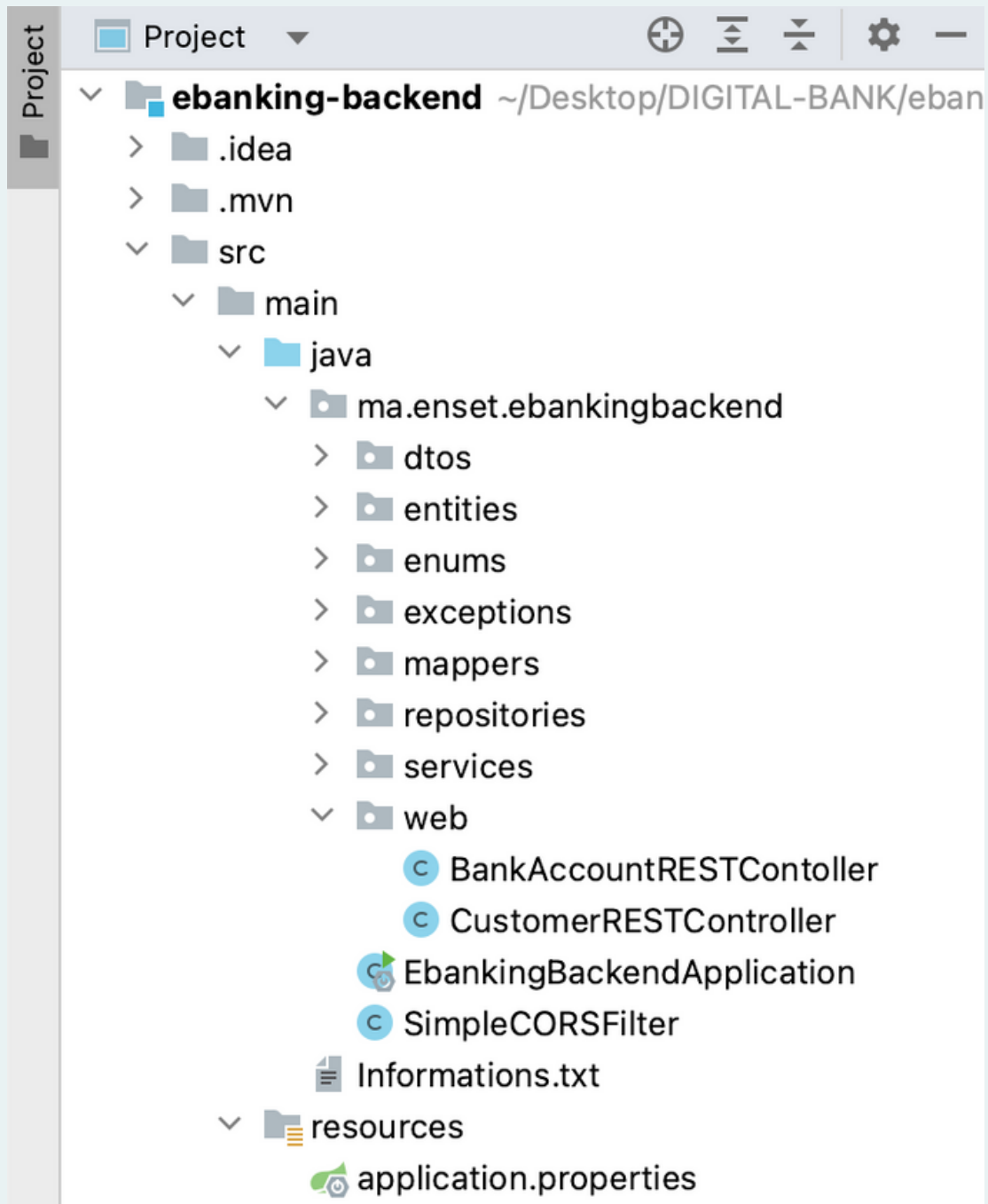
RÉALISÉ PAR :

ANAS NEDDAY

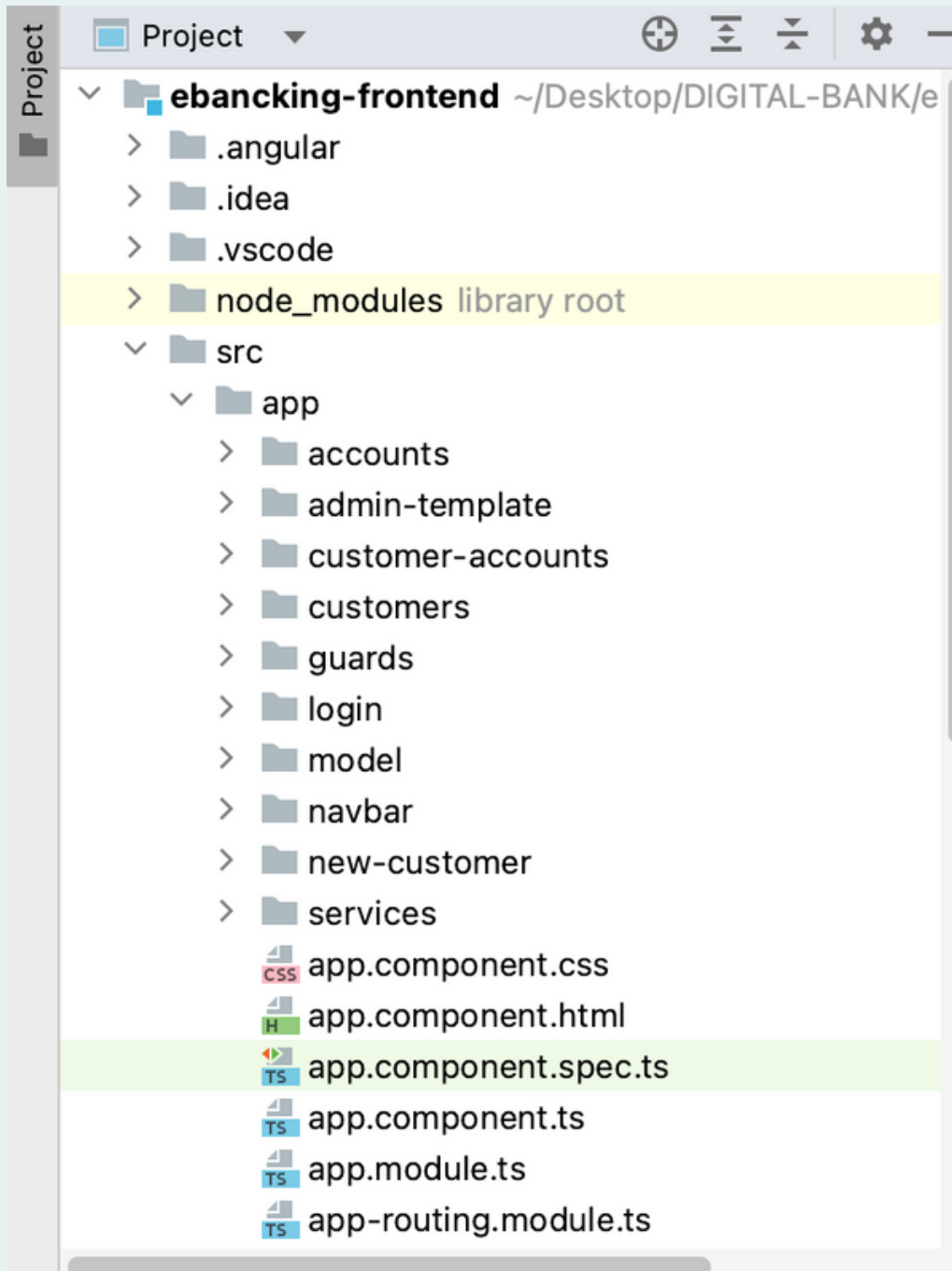
ENCADRÉ PAR :

MOHAMED YOUSSEFI

# BACKEND STRUCTURE :



# FRONTEND STRUCTURE :



## Class AccountOperation

```
package ma.enset.ebankingbackend.entities;

import ...

17 usages
@Entity
@Data
@NoArgsConstructor @AllArgsConstructor
public class AccountOperation {
    @Id @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long ID;
    private Date operationDate;
    private double amount;
    private String description;

    @Enumerated(EnumType.STRING)
    private OperationType type;

    @ManyToOne
    private BankAccount bankAccount;
}
```

## Class BankAccount

```
2 inheritors
@Entity
@Data
@Inheritance(strategy = InheritanceType.JOINED)

@NoArgsConstructor @AllArgsConstructor
public class BankAccount {
    @Id
    private String ID;
    private String RIB;
    private double balance;
    private Date createdAt;
    @Enumerated(EnumType.STRING)
    private AccountStatus status;

    @ManyToOne
    private Customer customer;
    @OneToMany(mappedBy = "bankAccount", fetch = FetchType.LAZY)

    @JsonProperty(access = JsonProperty.Access.WRITE_ONLY)
    private List<AccountOperation> accountOperations;
}
```

## Class CurrentAccount

```
17 usages
@Data
@Entity
//@DiscriminatorValue("CA")
@NoArgsConstructor @AllArgsConstructor
public class CurrentAccount extends BankAccount{
    private double overDraft;
}
```

## class Customer

```
16 usages
@Entity
@Data
@NoArgsConstructor @AllArgsConstructor
public class Customer {
    //ID, firstName, lastName, email, phoneNumber, bankAccounts
    @Id @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long ID;
    private String firstName;
    private String lastName;
    private String email;
    private String phoneNumber;
    @OneToMany(mappedBy = "customer")
    @JsonProperty(access = JsonProperty.Access.WRITE_ONLY)
    private List<BankAccount> bankAccounts;
}
```

## Class SavingAccount

```
10 usages
@Data
@Entity
//@DiscriminatorValue("SA")
@NoArgsConstructor @AllArgsConstructor
public class SavingAccount extends BankAccount{
    private double interestRate;
    // Taux d'intérêt
}
```

## REPOSITORIES :

```
public interface AccountOperationRepository extends
JpaRepository<AccountOperation, Long> {
    List<AccountOperation> findByBankAccountID(String id);
    List<AccountOperation> findByBankAccount(BankAccount bankAccount);

    Page<AccountOperation> findByBankAccountID(String id,Pageable pageable);
```

```
    Page<AccountOperation> findByBankAccountIDOrderByOperationDateDesc(String
id, Pageable pageable);
}
```

```
package ma.enset.ebankingbackend.repositories;
```

```
import ma.enset.ebankingbackend.entities.BankAccount;
import org.springframework.data.jpa.repository.JpaRepository;
```

```
import java.util.List;
```

```
public interface BankAccountRepository extends JpaRepository<BankAccount, String>
{
    List<BankAccount> findByCustomerID(Long ID);
}
```

```
package ma.enset.ebankingbackend.repositories;
```

```
import ma.enset.ebankingbackend.entities.Customer;
import org.springframework.data.jpa.repository.JpaRepository;
```

```
import java.util.List;
```

```
public interface CustomerRepository extends JpaRepository<Customer, Long> {
    List<Customer> findByFirstNameContainsOrLastNameContains(String firstName, String
lastName);
}
```

## **INTERFACE BANKACCOUNTSERVICE**

```
import java.util.List;
```

```
public interface BankAccountService {  
    CustomerDTO saveCustomer(CustomerDTO customer);  
    CurrentAccountDTO saveCurrentBankAccount(double balance, double overDraft,  
Long customerID) throws CustomerNotFoundException;  
    SavingAccountDTO saveSavingBankAccount(double balance, double interestRate,  
Long customerID) throws CustomerNotFoundException;  
    List<CustomerDTO> listCustomers();  
    BankAccountDTO getBankAccount(String id) throws  
BankAccountNotFoundException;  
    void deposit(String id, double amount, String description) throws  
BankAccountNotFoundException;  
    void withdraw(String id, double amount, String description) throws  
BankAccountNotFoundException, InsufficientBalanceException;  
    void transfer(String idSource, String idDestination, double amount) throws  
BankAccountNotFoundException, InsufficientBalanceException;  
  
    List<BankAccountDTO> listBankAccounts();  
  
    CustomerDTO getCustomer(Long id) throws CustomerNotFoundException;  
  
    CustomerDTO updateCustomer(CustomerDTO customerDTO);  
  
    void deleteCustomer(Long id) throws CustomerNotFoundException;  
    List<AccountOperationDTO> accountOperationsHistory(String ID) throws  
BankAccountNotFoundException;  
  
    AccountHistoryDTO accountOperationsHistory(String id, int page, int size) throws  
BankAccountNotFoundException;  
  
    List<CustomerDTO> searchCustomers(String keyword);  
  
    List<BankAccountDTO> getCustomerBankAccounts(Long id) throws  
CustomerNotFoundException;  
}
```

```

@Service
@Transactional
@AllArgsConstructor // Inject all the fields
// Inject a logger
@Slf4j //Equivalent to Logger log = LoggerFactory.getLogger(BankAccountServiceImpl.class);
public class BankAccountServiceImpl implements BankAccountService{
    private CustomerRepository customerRepository;
    private BankAccountRepository bankAccountRepository;
    private AccountOperationRepository accountOperationRepository;

    private BankAccountMapperImpl dtoMapper;
    @Override
    public CustomerDTO saveCustomer(CustomerDTO customerDTO) {
        log.info("Saving customer {}", customerDTO);
        Customer customer = dtoMapper.fromCustomerDTOToCustomer(customerDTO);
        customerRepository.save(customer);
        return dtoMapper.fromCustomerToCustomerDTO(customer);
    }

    @Override
    public List<CustomerDTO> searchCustomers(String keyword) {
        log.info("Searching customers with keyword {}", keyword);

        return
customerRepository.findByFirstNameContainsOrLastNameContains(keyword,keyword).stream()
.map(dtoMapper::fromCustomerToCustomerDTO).collect(Collectors.toList());
    }

    @Override
    public CurrentAccountDTO saveCurrentBankAccount(double balance, double overDraft,
Long customerID) throws CustomerNotFoundException {
        log.info("Saving Current bank account with balance {}", balance);
        CurrentAccount bankAccount=new CurrentAccount();
        Customer customer = customerRepository.findById(customerID).orElse(null);
        if (customer == null) throw new CustomerNotFoundException("Customer not found");

        bankAccount.setID(UUID.randomUUID().toString());
        bankAccount.setRIB("00012"+customerID+"0001");
        bankAccount.setBalance(balance);
        bankAccount.setCreatedAt(new java.util.Date());
        bankAccount.setStatus(AccountStatus.CREATED);
        bankAccount.setOverDraft(overDraft);
        bankAccount.setCustomer(customerRepository.findById(customerID).orElse(null));

        return
dtoMapper.fromCurrentAccountToCurrentAccountDTO(bankAccountRepository.save(bankAcco
unt));
    }
}

```



@Override

```
public SavingAccountDTO saveSavingBankAccount(double balance, double interest,
Long customerID) throws CustomerNotFoundException {
    log.info("Saving Saving bank account with balance {}", balance);
    SavingAccount bankAccount=new SavingAccount();

    Customer customer = customerRepository.findById(customerID).orElse(null);
    if (customer == null) throw new CustomerNotFoundException("Customer not
found");

    bankAccount.setID(UUID.randomUUID().toString());
    bankAccount.setRIB("00012"+customerID+"0001");
    bankAccount.setBalance(balance);
    bankAccount.setCreatedAt(new java.util.Date());
    bankAccount.setStatus(AccountStatus.CREATED);
    bankAccount.setInterestRate(interest);

    bankAccount.setCustomer(customerRepository.findById(customerID).orElse(null));

    return
dtoMapper.fromSavingAccountToSavingAccountDTO(bankAccountRepository.save(ba
nkAccount));
}
```

@Override

```
public List<CustomerDTO> listCustomers() {
    List<Customer> customers=customerRepository.findAll();
    /*Programmation impérative
    List<CustomerDTO> customerDTOS=new ArrayList<>();
    for (Customer customer:customers){
        customerDTOS.add(dtoMapper.fromCustomerToCustomerDTO(customer));
    }
    */
    return
customers.stream().map(dtoMapper::fromCustomerToCustomerDTO).collect(Collectors.toList());
}

}
```

@Override

```
public BankAccountDTO getBankAccount(String ID) throws  
BankAccountNotFoundException {  
    BankAccount bankAccount=getBankAccountEntity(ID);  
  
    bankAccount.setAccountOperations(accountOperationRepository.findByBankAccount  
t(bankAccount));  
    if (bankAccount instanceof CurrentAccount)  
        return  
dtoMapper.fromCurrentAccountToCurrentAccountDTO((CurrentAccount)  
bankAccount);  
    else  
        return dtoMapper.fromSavingAccountToSavingAccountDTO((SavingAccount)  
bankAccount);  
}
```

```
//Get the bank account entity from the database  
private BankAccount getBankAccountEntity(String ID) throws  
BankAccountNotFoundException {  
    return bankAccountRepository.findById(ID)  
        .orElseThrow(()->new BankAccountNotFoundException("Bank account not  
found"));  
}
```

```
@Override  
public void deposit(String ID, double amount, String description) throws  
BankAccountNotFoundException {  
    BankAccount bankAccount=getBankAccountEntity(ID);  
  
    //Create an operation<credit>  
    AccountOperation accountOperation=new AccountOperation();  
    accountOperation.setAmount(amount);  
    accountOperation.setType(OperationType.CREDIT);  
    accountOperation.setBankAccount(bankAccount);  
    accountOperation.setDescription(description);  
    accountOperation.setOperationDate(new java.util.Date());  
    //Update the balance  
    bankAccount.setBalance(bankAccount.getBalance()+amount);  
    //Save the operation and the bank account  
    accountOperationRepository.save(accountOperation);  
    bankAccountRepository.save(bankAccount);  
}
```

@Override

```
public void withdraw(String ID, double amount, String description) throws
BankAccountNotFoundException, InsufficientBalanceException {
    BankAccount bankAccount=getBankAccountEntity(ID);

    if (bankAccount.getBalance()<amount)
        throw new InsufficientBalanceException("Insufficient balance");

    //Create an operation<debit>
    AccountOperation accountOperation=new AccountOperation();
    accountOperation.setAmount(amount);
    accountOperation.setType(OperationType.DEBIT);
    accountOperation.setBankAccount(bankAccount);
    accountOperation.setDescription(description);
    accountOperation.setOperationDate(new java.util.Date());
    //Update the balance
    bankAccount.setBalance(bankAccount.getBalance()-amount);
    //Save the operation and the bank account
    accountOperationRepository.save(accountOperation);
    bankAccountRepository.save(bankAccount);
}
```

@Override

```
public void transfer(String IDSource, String IDDestination, double amount) throws
BankAccountNotFoundException, InsufficientBalanceException {
    //Debit the source account
    withdraw(IDSource,amount,"Transfer to "+IDDestination);
    //Credit the destination account
    deposit(IDDestination,amount,"Transfer from "+IDSource);
}
```

}

@Override

```
public List<BankAccountDTO> listBankAccounts() {
    List<BankAccount> bankAccounts=bankAccountRepository.findAll();
    return bankAccounts.stream().map(bankAccount -> {
        if (bankAccount instanceof CurrentAccount)
            return
dtoMapper.fromCurrentAccountToCurrentAccountDTO((CurrentAccount)
bankAccount);
        else
            return dtoMapper.fromSavingAccountToSavingAccountDTO((SavingAccount)
bankAccount);
    }).collect(Collectors.toList());
}
```

```
@Override
public CustomerDTO getCustomer(Long id) throws
CustomerNotFoundException {
    Customer customer=customerRepository.findById(id).orElseThrow(()->new
CustomerNotFoundException("Customer not found"));
    return dtoMapper.fromCustomerToCustomerDTO(customer);
}
```

```
@Override
public CustomerDTO updateCustomer(CustomerDTO customerDTO) {
    log.info("Updating customer {}", customerDTO);
    Customer customer =
dtoMapper.fromCustomerDTOToCustomer(customerDTO);
    customerRepository.save(customer);
    return dtoMapper.fromCustomerToCustomerDTO(customer);
}
```

```
@Override
public void deleteCustomer(Long id) throws CustomerNotFoundException {
    Customer customer=customerRepository.findById(id).orElseThrow(()->new
CustomerNotFoundException("Customer not found"));
    customerRepository.delete(customer);
}
```

```
@Override
public List<AccountOperationDTO> accountOperationsHistory(String ID) throws
BankAccountNotFoundException {
    BankAccount bankAccount=getBankAccountEntity(ID);
    List<AccountOperation>
accountOperations=accountOperationRepository.findByBankAccountID(ID);
    return
accountOperations.stream().map(dtoMapper::fromAccountOperationToAccountO
perationDTO).collect(Collectors.toList());
}
```

```

@Override
public AccountHistoryDTO accountOperationsHistory(String ID, int page, int size) throws
BankAccountNotFoundException {
    BankAccount bankAccount = getBankAccountEntity(ID);
    //Page<AccountOperation> accountOperations =
accountOperationRepository.findByBankAccountID(ID, PageRequest.of(page, size));
    //Order by date
    Page<AccountOperation> accountOperations =
accountOperationRepository.findByBankAccountIDOrderByOperationDateDesc(ID,
PageRequest.of(page, size));

    AccountHistoryDTO accountHistoryDTO = new AccountHistoryDTO();
    List<AccountOperationDTO>accountOperationsDTOs =
accountOperations.getContent().stream().map(dtoMapper::fromAccountOperationToAccountOper
ationDTO).collect(Collectors.toList());
    accountHistoryDTO.setOperations(accountOperationsDTOs);
    accountHistoryDTO.setID(bankAccount.getID());
    accountHistoryDTO.setRIB(bankAccount.getRIB());
    accountHistoryDTO.setBalance(bankAccount.getBalance());
    accountHistoryDTO.setType(bankAccount instanceof CurrentAccount ? "Current Account" :
"Saving Account");

    //pages
    accountHistoryDTO.setTotalPages(accountOperations.getTotalPages());
    accountHistoryDTO.setCurrentPage(page);
    accountHistoryDTO.setSize(size);
return accountHistoryDTO;

}

```

```

@Override
public List<BankAccountDTO> getCustomerBankAccounts(Long id) throws
CustomerNotFoundException {
    Customer customer=customerRepository.findById(id).orElseThrow(()->new
CustomerNotFoundException("Customer not found"));
    List<BankAccount> bankAccounts=bankAccountRepository.findByCustomerID(id);
    return bankAccounts.stream().map(bankAccount -> {
        if (bankAccount instanceof CurrentAccount)
            return dtoMapper.fromCurrentAccountToCurrentAccountDTO((CurrentAccount)
bankAccount);
        else
            return dtoMapper.fromSavingAccountToSavingAccountDTO((SavingAccount)
bankAccount);
    }).collect(Collectors.toList());
}

}

```

# BANKACCOUNTRESTCONTROLLER

```
package ma.enset.ebankingbackend.web;
```

```
import lombok.AllArgsConstructor;
import lombok.extern.slf4j.Slf4j;
import ma.enset.ebankingbackend.dtos.*;
import ma.enset.ebankingbackend.exceptions.BankAccountNotFoundException;
import ma.enset.ebankingbackend.exceptions.InsufficientBalanceException;
import ma.enset.ebankingbackend.services.BankAccountService;
import org.springframework.web.bind.annotation.*;
```

```
import java.util.List;
```

```
@RestController
@AllArgsConstructor
@Slf4j
```

```
@CrossOrigin("*")
```

```
public class BankAccountRESTContoller {
    private BankAccountService bankAccountService;
```

```
    @GetMapping("/bankAccounts/{ID}")
```

```
    public BankAccountDTO getBankAccount(@PathVariable String ID) throws
BankAccountNotFoundException {
        return bankAccountService.getBankAccount(ID);
    }
```

```
    @GetMapping("/bankAccounts")
```

```
    public List<BankAccountDTO> listBankAccounts() {
        return bankAccountService.listBankAccounts();
    }
```

```
    @GetMapping("/bankAccounts/{ID}/history")
```

```
    public List<AccountOperationDTO> getHistory(@PathVariable String ID) throws
BankAccountNotFoundException {
        return bankAccountService.accountOperationsHistory(ID);
    }
```

```
    @GetMapping("/bankAccounts/{ID}/paged")
```

```
    public AccountHistoryDTO getAccountHistory(@PathVariable String ID,
                                                @RequestParam(name = "page",defaultValue = "0")int page,
                                                @RequestParam(name = "size",defaultValue = "5") int size)
throws BankAccountNotFoundException {
        return bankAccountService.accountOperationsHistory(ID, page, size);
    }
```

```
}
```

**@PostMapping("/bankAccounts/deposit")**

```
public DepositDTO deposit(@RequestBody DepositDTO deposit) throws
BankAccountNotFoundException {
    bankAccountService.deposit(deposit.getAccountID(), deposit.getAmount(),
deposit.getDescription());
    return deposit;
}
```

**@PostMapping("/bankAccounts/withdraw")**

```
public WithdrawDTO withdraw(@RequestBody WithdrawDTO withdrawDTO) throws
BankAccountNotFoundException, InsufficientBalanceException {
    bankAccountService.withdraw(withdrawDTO.getAccountID(),
withdrawDTO.getAmount(), withdrawDTO.getDescription());
    return withdrawDTO;
}
```

**@PostMapping("/bankAccounts/transfer")**

```
public void transfer(@RequestBody TransferDTO transferDTO) throws
BankAccountNotFoundException, InsufficientBalanceException {
    bankAccountService.transfer(transferDTO.getAccountIDSource(),
transferDTO.getAccountIDDestination(), transferDTO.getAmount());
}
```

## **CUSTOMERRESTCONTROLLER**

**@RestController**

**@AllArgsConstructor**

**@Slf4j**

**@CrossOrigin("\*")**

```
public class CustomerRestController {
    private BankAccountService bankAccountService;
```

**@GetMapping("/customers")**

```
public List<CustomerDTO> customers() {
    return bankAccountService.listCustomers();
}
```

**@GetMapping("customers/search")**

```
public List<CustomerDTO> searchCustomers(@RequestParam(name = "keyword") String keyword) {
    return bankAccountService.searchCustomers(keyword);
}
```

**@GetMapping("/customers/{id}")**

```
public CustomerDTO getCustomer(@PathVariable(name = "id") Long id) throws CustomerNotFoundException {
    return bankAccountService.getCustomer(id);
}
```

@PostMapping("/customers")

```
public CustomerDTO saveCustomer(@RequestBody CustomerDTO customerDTO) {  
    return bankAccountService.saveCustomer(customerDTO);  
}
```

@PutMapping("/customers/{id}")

```
public CustomerDTO updateCustomer(@PathVariable Long id,@RequestBody CustomerDTO  
customerDTO) {  
    customerDTO.setID(id);  
    return bankAccountService.updateCustomer(customerDTO);  
}
```

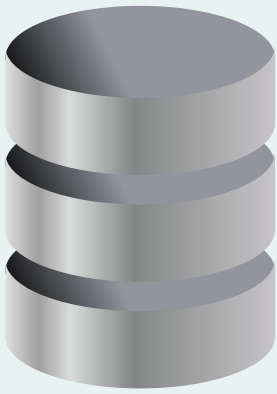
@DeleteMapping("/customers/{id}")

```
public void deleteCustomer(@PathVariable Long id) throws CustomerNotFoundException {  
    bankAccountService.deleteCustomer(id);  
}
```

@GetMapping("/customers/{id}/bankAccounts")

```
public List<BankAccountDTO> getCustomerBankAccounts(@PathVariable Long id) throws  
CustomerNotFoundException {  
    return bankAccountService.getCustomerBankAccounts(id);  
}  
}
```

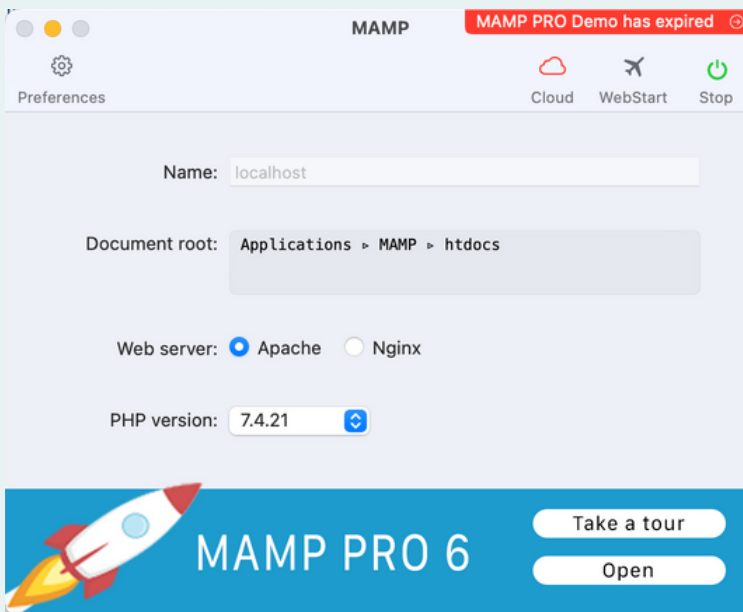





# BASE DE DONNÉES :



## MAMP SERVER



### MySQL



You can administer your MySQL databases with [phpMyAdmin](#).

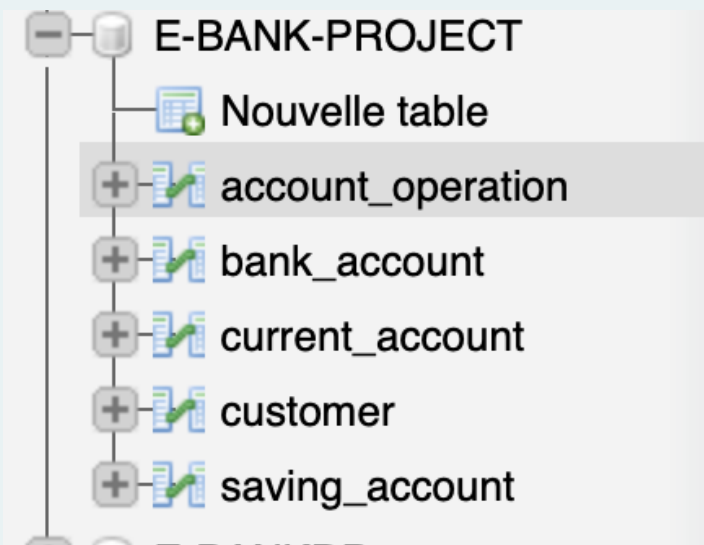
To connect to the MySQL server from your own scripts use the following connection parameters:

Host	localhost / 127.0.0.1 (depending on language and/or connection method used)
Port	8889
Username	root
Password	root
Socket	/Applications/MAMP/tmp/mysql/mysql.sock

```
spring.datasource.url=jdbc:mysql://localhost:8889/E-BANKDB?createDatabaseIfNotExist=true
spring.datasource.username=root
spring.datasource.password=root
```

```
server.port=8082
```






















```
spring.jpa.hibernate.ddl-auto=create
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MariaDBDialect
spring.jpa.show-sql=true
```



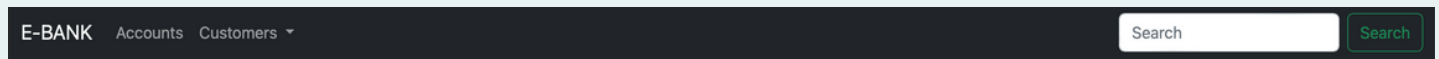
The screenshot shows the phpMyAdmin interface for the E-BANK-PROJECT database. The 'account\_operation' table is selected, and its structure and data are displayed. The table has columns: id, amount, description, operation\_date, type, and bank\_account\_id. The data is as follows:

	id	amount	description	operation_date	type	bank_account_id
Éditer Copier Supprimer	1	13865.43919860672	Deposit of today no 0	2023-05-28 10:31:22	CREDIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	2	4048.9582418818745	Withdraw of today no 0	2023-05-28 10:31:22	DEBIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	3	57436.73848263868	Deposit of today no 1	2023-05-28 10:31:22	CREDIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	4	7202.1488344478785	Withdraw of today no 1	2023-05-28 10:31:22	DEBIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	5	16891.33329822752	Deposit of today no 2	2023-05-28 10:31:22	CREDIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	6	971.8421783810273	Withdraw of today no 2	2023-05-28 10:31:22	DEBIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	7	11270.337358385324	Deposit of today no 3	2023-05-28 10:31:22	CREDIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	8	6662.092660240683	Withdraw of today no 3	2023-05-28 10:31:22	DEBIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	9	7181.51606481272	Deposit of today no 4	2023-05-28 10:31:22	CREDIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	10	2086.465125289332	Withdraw of today no 4	2023-05-28 10:31:22	DEBIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	11	102033.53107868638	Deposit of today no 5	2023-05-28 10:31:22	CREDIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	12	7912.981057048137	Withdraw of today no 5	2023-05-28 10:31:22	DEBIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	13	42120.76988598587	Deposit of today no 6	2023-05-28 10:31:22	CREDIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	14	5631.408997173913	Withdraw of today no 6	2023-05-28 10:31:22	DEBIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	15	59505.808061943746	Deposit of today no 7	2023-05-28 10:31:22	CREDIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	16	2590.181877081247	Withdraw of today no 7	2023-05-28 10:31:22	DEBIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	17	78756.26886197741	Deposit of today no 8	2023-05-28 10:31:22	CREDIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	18	2817.533273407578	Withdraw of today no 8	2023-05-28 10:31:22	DEBIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	19	41343.476409982766	Deposit of today no 9	2023-05-28 10:31:22	CREDIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	20	1798.75030263054	Withdraw of today no 9	2023-05-28 10:31:22	DEBIT	6d4e19a1-08ec-4cb6-ad40-90445f5eca40
Éditer Copier Supprimer	21	95578.60159450452	Deposit of today no 0	2023-05-28 10:31:22	CREDIT	c1477a71-18d4-4bf5-b1ee-1c33d5ec41b4
Éditer Copier Supprimer	22	1928.1710879820703	Withdraw of today no 0	2023-05-28 10:31:22	DEBIT	c1477a71-18d4-4bf5-b1ee-1c33d5ec41b4
Éditer Copier Supprimer	23	90602.89846331291	Deposit of today no 1	2023-05-28 10:31:22	CREDIT	c1477a71-18d4-4bf5-b1ee-1c33d5ec41b4
Éditer Copier Supprimer	24	8030.734011008993	Withdraw of today no 1	2023-05-28 10:31:22	DEBIT	c1477a71-18d4-4bf5-b1ee-1c33d5ec41b4



- ▼  app
  - ▼  accounts
    -  accounts.component.css
    -  accounts.component.html
    -  accounts.component.spec.ts
    -  accounts.component.ts
  - ▼  admin-template
    -  admin-template.component.css
    -  admin-template.component.html
    -  admin-template.component.spec.ts
    -  admin-template.component.ts
  - ▼  customer-accounts
    -  customer-accounts.component.css
    -  customer-accounts.component.html
    -  customer-accounts.component.spec.ts
    -  customer-accounts.component.ts
  - ▼  customers
    -  customers.component.css
    -  customers.component.html
    -  customers.component.spec.ts
    -  customers.component.ts

# NAVBAR :



```
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">E-BANK</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false" aria-
label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0">
        <li class="nav-item">
          <a class="nav-link" routerLink="/admin/accounts">Accounts</a>
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" id="navbarDropdown"
role="button" data-bs-toggle="dropdown" aria-expanded="false">
            Customers
          </a>
          <ul class="dropdown-menu" aria-labelledby="navbarDropdown">
            <li><a class="dropdown-item" href="/admin/customers">Search
customers</a></li>
            <li><a class="dropdown-item" href="/admin/new-customer">New
customer</a></li>
          </ul>
        </li>
      </ul>
      <form class="d-flex">
        <input class="form-control me-2" type="search" placeholder="Search"
aria-label="Search">
        <button class="btn btn-outline-success"
type="submit">Search</button>
      </form>
    </div>
  </div>
</nav>
```

# LOGIN PAGE

Authentication

Username

Enter username

Password

Password

Login

```
<div class="container">
  <div class="col-md-6 offset-3">
    <div class="card mt-4">
      <div class="card-header">
        Authentication
      </div>

      <div class="card-body">
        <!--error message-->
        <div class="alert alert-danger" *ngIf="errorMessage">
          {{errorMessage}}
        </div>
        <form class="" [formGroup]="userFormGroup" (ngSubmit)="handleLogin()">
          <div class="form-group">
            <label for="username">Username</label>
            <input type="text" class="form-control" id="username" placeholder="Enter username"
formControlName="username">
          </div>
          <div class="form-group">
            <label for="password">Password</label>
            <input type="password" class="form-control" id="password" placeholder="Password"
formControlName="password">
          </div>
          <div class="d-grid gap-2 mt-4">
            <button type="submit" class="btn btn-primary">Login</button>
          </div>
        </form>
      </div>
    </div>
  </div>
</div>
</div>
```

# INTERFACE GRAPHIQUE :

Accounts

Account ID : 01f58f12-ebf1-434a-8b6f-ce7a3b929519

Account Information

ID : 01f58f12-ebf1-434a-8b6f-ce7a3b929519

Type : Current Account

Balance : 3,358,747.45 MAD

RIB : 0001250001

ID	Date & Heure	Type	Description	Amount
1801	28/05/2023 11:59	CREDIT	Deposit of today no 0	81,622.04 MAD
1802	28/05/2023 11:59	DEBIT	Withdraw of today no 0	378.03 MAD
1803	28/05/2023 11:59	CREDIT	Deposit of today no 1	89,255.69 MAD
1804	28/05/2023 11:59	DEBIT	Withdraw of today no 1	5,616.83 MAD
1805	28/05/2023 11:59	CREDIT	Deposit of today no 2	106,294.54 MAD
1806	28/05/2023 11:59	DEBIT	Withdraw of today no 2	7,809.13 MAD
1807	28/05/2023 11:59	CREDIT	Deposit of today no 3	91,947.77 MAD
1808	28/05/2023 11:59	DEBIT	Withdraw of today no 3	520.92 MAD

Operations

Operation Type

☐ CREDIT ☐ DEBIT ☐ TRANSFER

Amount

0

Description

Execute Operation

# CREDIT :

Accounts

Account ID : 01f58f12-ebf1-434a-8b6f-ce7a3b929519

Account Information

ID : 01f58f12-ebf1-434a-8b6f-ce7a3b929519

Type : Current Account

Balance : 3,358,747.45 MAD

RIB : 0001250001

ID	Date & Heure	Type	Description	Amount
1801	28/05/2023 11:59	CREDIT	Deposit of today no 0	81,622.04 MAD
1802	28/05/2023 11:59	DEBIT	Withdraw of today no 0	378.03 MAD
1803	28/05/2023 11:59	CREDIT	Deposit of today no 1	89,255.69 MAD
1804	28/05/2023 11:59	DEBIT	Withdraw of today no 1	5,616.83 MAD
1805	28/05/2023 11:59	CREDIT	Deposit of today no 2	106,294.54 MAD
1806	28/05/2023 11:59	DEBIT	Withdraw of today no 2	7,809.13 MAD
1807	28/05/2023 11:59	CREDIT	Deposit of today no 3	91,947.77 MAD
1808	28/05/2023 11:59	DEBIT	Withdraw of today no 3	520.92 MAD

Operations

Operation Type

☒ CREDIT ☐ DEBIT ☐ TRANSFER

Amount

10000

Description

Execute Operation

Credit successfull

Account Information

ID : 01f58f12-ebf1-434a-8b6f-ce7a3b929519

Type : Current Account

Balance : 3,368,747.45 MAD

RIB : 0001250001

ID	Date & Heure	Type	Description	Amount
2201	28/05/2023 12:02	CREDIT	credit de 10000 dh	10,000.00 MAD

# DEBIT :

## Account Information

ID : 01f58f12-ebf1-434a-8b6f-ce7a3b929519

Type : Current Account

**Balance : 3,368,170.45 MAD**

RIB : 0001250001

ID	Date & Heure	Type	Description	Amount
2202	28/05/2023 12:03	DEBIT	Debit de 577 Dh	577.00 MAD

# TRANSFERT :

## Operations

### Operation Type

☐ CREDIT ☐ DEBIT ☒ TRANSFER

### Destination

3c617dbb-18f3-4a0b-b4f8-1434197e3ec0

### Amount

800 dh

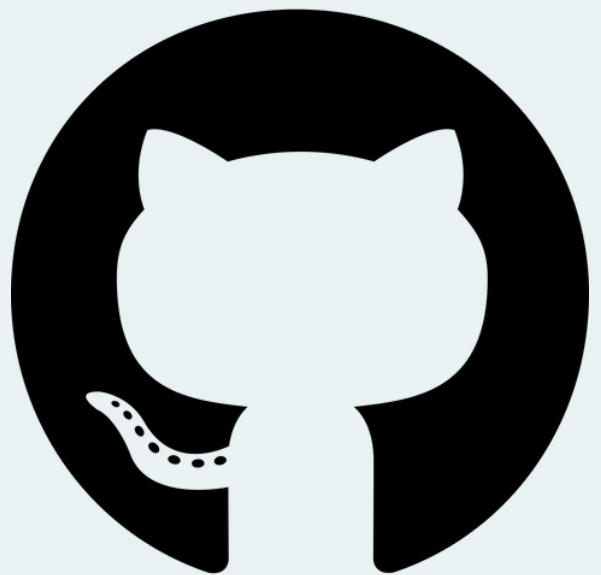
### Description

transfer a Marouane |

Execute Operation



# DÉPÔT GITHUB :



## AnasNedday/Digital-Banking



0

Contributors

0

Issues

0

Stars

0

Forks



### AnasNedday/Digital-Banking

Contribute to AnasNedday/Digital-Banking development by creating an account on GitHub.



GitHub

main 1 branch 0 tags

Go to file

Add file

<> Code



AnasNedday first commit

14a62dc 2 minutes ago 1 commit

idea	first commit	2 minutes ago
ebanking-frontend	first commit	2 minutes ago
ebanking-backend	first commit	2 minutes ago
.DS_Store	first commit	2 minutes ago
ebanking-frontend.iml	first commit	2 minutes ago

Help people interested in this repository understand your project by adding a README.

Add a README