

How to Use the Wallet Application

1. Overview

This application allows users to manage wallets, perform deposit and withdrawal operations, view transactions, and create new users.

All actions are role-based and protected with JWT-based authentication.

- CUSTOMER users can perform actions related to their own wallets and transactions.
- EMPLOYEE users can perform all actions (create wallet, deposit, withdraw, view, approve/deny) on behalf of any customer.

2. Authentication

Before using any feature, you must log in to the application.

1. Send a POST request to /auth/login with your username and password.
2. You will receive a JWT token if credentials are valid.
3. Include the token in the Authorization header as: Bearer <your_token>

Default Admin Login:

- Username: admin
- Password: admin123

3. Creating Users as Admin

1. Log in as admin (see Authentication section)
2. Use POST /api/createUser to create a new user
3. Provide username, password, role (CUSTOMER or EMPLOYEE), and associated info

Example (CUSTOMER user with wallet):

```
{
  "username": "john",
  "password": "john123",
  "role": "CUSTOMER",
  "customer": {
    "name": "John",
    "surname": "Doe",
    "tckn": "12345678901",
    "wallets": [
      {
        "walletName": "John's Wallet",
        "currency": "TRY",
        "activeForShopping": true,
        "activeForWithdraw": true,
        "balance": 1000.0,
        "usableBalance": 950.0
      }
    ]
  }
}
```

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4. Role-Based Operations

After user creation, either of the following usage flows can happen:

A. CUSTOMER perspective:

- The newly created user with role CUSTOMER can log in and:
 - Create a wallet for themselves
 - Deposit or withdraw from their own wallet
 - View their own wallets and transactions

B. EMPLOYEE perspective:

- The newly created user with role EMPLOYEE can log in and:
 - Create wallets for any customer
 - Deposit or withdraw to/from any customer's wallet
 - View wallets and transactions of any customer
 - Approve or deny pending transactions

5. Creating a Wallet

1. Use POST `/api/wallets/create`
2. Provide `customerId`, `walletName`, and `currency` (TRY, USD, EUR)
3. Optionally, you can enable 'activeForShopping' and 'activeForWithdraw' flags
4. A new wallet will be created for the customer

Example:

```
{
  "customerId": 1,
  "walletName": "John's Wallet",
  "currency": "TRY",
  "activeForShopping": true,
  "activeForWithdraw": true
}
```

6. Deposit Funds

1. Use POST `/api/wallets/deposit`
2. Required fields: `walletId`, `amount`, `oppositeParty`, `oppositePartyType` (IBAN or PAYMENT)
3. If IBAN is selected, use a valid IBAN like TR330006100519786457841326
4. The amount will be added to the wallet balance

Example:

```
{
  "walletId": 1,
  "amount": 500.0,
  "oppositeParty": "TR330006100519786457841326",
  "oppositePartyType": "IBAN"
}
```

7. Withdraw Funds

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1. Use POST /api/wallets/withdraw
2. Required fields: walletId, amount, oppositeParty, oppositePartyType (IBAN or PAYMENT)
3. The amount will be deducted from the wallet if the balance is sufficient

Example:

```
{
  "walletId": 1,
  "amount": 200.0,
  "oppositeParty": "TR330006100519786457841326",
  "oppositePartyType": "IBAN"
}
```

8. Approving Transactions (Employees Only)

1. Use POST /api/transactions/approve
2. Required fields: transactionId and status (APPROVED or DENIED)
3. Only users with EMPLOYEE role can perform this action

9. Viewing Transactions and Wallets

- GET /api/wallets/{walletId}/transactions: View all transactions for a wallet
- GET /api/customers/{customerId}/wallets: View all wallets of a specific customer