I have deployed the contract on goerli: https://goerli.etherscan.io/address/0x7e9f99d8baebad8aff47467241db277228836dae

Could someone help me review the contract?

```
//SPDX-License-Identifier: MIT pragma solidity 0.8.17;
```

import "@openzeppelin/contracts/token/ERC20/utils/SafeERC20.sol"; import "@openzeppelin/contracts/utils/Strings.sol"; import "@openzeppelin/contracts/utils/Address.sol";

contract BankLockTest { address owner; uint128 counter; mapping(address => bool) private legalErc20Tokens; mapping(string => Receipt) private receiptRepo; mapping(string => bool) private hasReceipt; struct Receipt { address customer; address token; uint256 amount; uint256 unlockTime; bool isEther; }

```
using SafeERC20 for IERC20;
event Read(
  address customer.
  address token,
  uint256 amount.
  uint256 unlockTime
event DepositErc20Token(
  string receiptKey,
  address customer.
  address token,
  uint256 amount,
  uint256 lockDays,
  uint256 unlockTime
);
event WithdrawErc20Token(
  string receiptKey,
  address customer,
  address token,
  uint256 amount.
  uint256 time
event DepositEther(
  string receiptKey,
  address customer,
  uint256 amount,
  uint256 lockDays,
  uint256 unlockTime
);
event WithdrawEther(
  string receiptKey,
  address customer,
  uint256 amount,
  uint256 time
event AddToken(address token);
constructor() {
  owner = msg.sender;
  counter = 0;
function _computeReceiptKey(Receipt memory _receipt, uint256 _counter)
  private
  view
  returns (string memory)
  return
     Strings.toString(
       uint256(
          keccak256(
            abi.encode(
               _receipt.customer,
               _counter + block.timestamp
         )
       )
    );
}
modifier_isLegalErc20Token(address_token) {
  require(legalErc20Tokens[_token], "not legal token");
}
```

modifier notContractAddress(address address) {

```
require(!Address.isContract(_address), "not support contract address");
function _getUnlockTime(uint256 _lockDays) private view returns (uint256) {
  return _lockDays * 86400 + block.timestamp;
function addToken(address _token) public {
  require(msg.sender == owner, "only owner can add tokens");
  legalErc20Tokens[_token] = true;
  emit AddToken(_token);
}
function getReceipt(string memory _receiptKey) public {
  require (has Receipt [\_receipt Key], "has not receipt or already draw"); \\
  Receipt memory receipt = receiptRepo[_receiptKey];
  emit Read(
     receipt.customer,
     receipt.token,
     receipt.amount
     receipt.unlockTime
}
function depositEther(uint256 lockDays)
  public
  payable
  _notContractAddress(msg.sender)
  require(msg.value > 0, "amount <= 0");
  if ((lockDays <= 0) || (lockDays > 180)) {
     lockDays = 1;
  unchecked {
     counter = counter + 1;
  uint256 unlockTime = _getUnlockTime(lockDays);
  address etherAddress = address(0);
  Receipt memory receipt = Receipt(
     msg.sender,
     etherAddress
     msg.value,
     unlockTime
     true
  string memory receiptKey = _computeReceiptKey(receipt, counter);
  require(!hasReceipt[receiptKey], "same receipt key collision");
  receiptRepo[receiptKey] = receipt;
  hasReceipt[receiptKey] = true;
  emit DepositEther(
     receiptKey,
     msg.sender,
     msg.value,
     lockDays,
     unlockTime
  );
function depositErc20Token(
  address token,
  uint256 amount.
  uint256 lockDays
) public _isLegalErc20Token(token) _notContractAddress(msg.sender) {
  require(amount > 0, "amount <= 0");
  require(
     !Address.isContract(msg.sender),
     "not support contract address"
  if ((lockDays <= 0) || (lockDays > 180)) {
     lockDays = 1;
  unchecked {
     counter = counter + 1;
  uint256 unlockTime = _getUnlockTime(lockDays);
  Receipt memory receipt = Receipt(
     msg.sender,
     token,
```

```
amount,
     unlockTime,
     false
  string memory receiptKey = _computeReceiptKey(receipt, counter);
  require (!hasReceipt[receiptKey], "same \ receipt \ key \ collision");
  receiptRepo[receiptKey] = receipt;
  hasReceipt[receiptKey] = true;
  IERC20(token).safeTransferFrom(msg.sender, address(this), amount);
  emit DepositErc20Token(
     receiptKey,
     msg.sender,
     token,
     amount,
     lockDays,
     unlockTime
}
function withdraw(string memory receiptKey) public {
  require(hasReceipt[receiptKey], "has not receipt or already draw");
  require(receiptRepo[receiptKey].unlockTime < block.timestamp, "unlock time not reached");
  hasReceipt[receiptKey] = false;
  Receipt memory receipt = receiptRepo[receiptKey];
  if (receipt.isEther) {
     payable(receipt.customer).transfer(receipt.amount);
     emit WithdrawEther(
       receiptKey,
       receipt.customer,
       receipt.amount,
       block.timestamp
  } else {
     IERC20(receipt.token).safeTransfer(
       receipt.customer,
       receipt.amount
    );
     emit WithdrawErc20Token(
       receiptKey,
       receipt customer,
       receipt.token,
       receipt.amount,
       block.timestamp
    );
  delete hasReceipt[receiptKey];
  delete receiptRepo[receiptKey];
}
my test results:
[
```

1015×632 59.4 KB

](https://ethresear.ch/uploads/default/original/2X/a/a8d657d466f9a1b5a64e055051013f7646d79cc6.png)