BIOMETRIC PAYMENT SYSTEM USING 2 STEP AUTHENTICATION

Abstract

->In this system, the user purchases the items and the final bill is generated.

->The user initially undergoes biometric authentication, by entering his fingerprint.

(New Idea implemented in this Project)

->To provide additional security, the user needs to type 5 digit secret pin.

->If the secret pin and the fingerprint match's then, the linked wallet(bank account) to the fingerprint is fetched, else "Authentication Failed" status is shown on the screen.

->After fetching, the balance is checked, if the balance is greater than the bill amount, the bill amount is debited and show the status as "Transaction is successful" else "Transaction Failed" status is show on the screen.
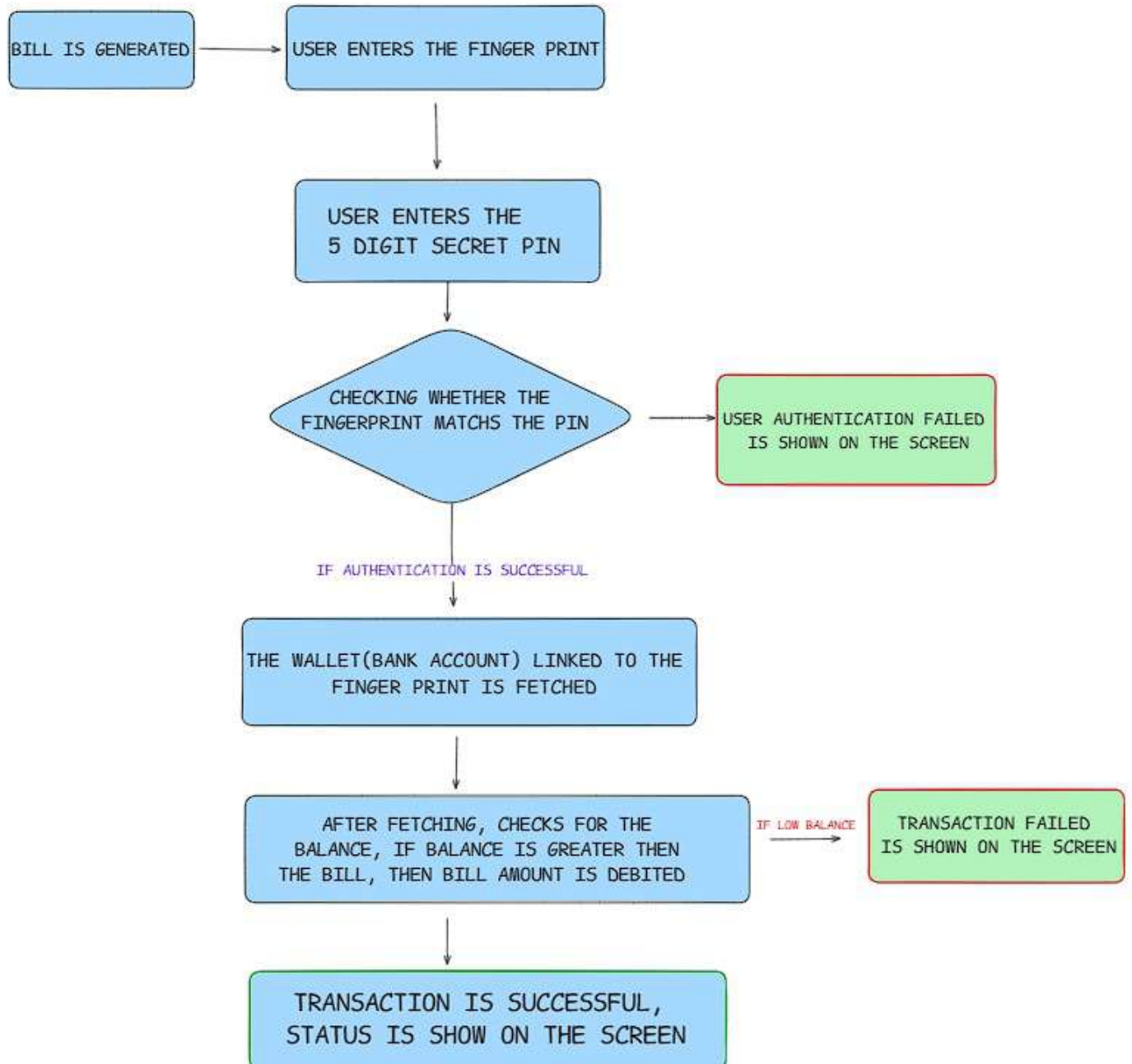
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BIOMETRIC PAYMENT SYSTEM USING 2 STEP AUTHENTICATION

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┌──────────────────┐        ┌──────────────────────────┐
│ BILL IS GENERATED│───────▶│ USER ENTERS THE FINGER PRINT│
└──────────────────┘        └──────────────────────────┘
                                        │
                                        ▼
                            ┌──────────────────────────┐
                            │ USER ENTERS THE          │
                            │ 5 DIGIT SECRET PIN       │
                            └──────────────────────────┘
                                        │
                                        ▼
                            ╱─────────────────────────╲       ┌──────────────────────────┐
                            │ CHECKING WHETHER THE     │──────▶│ USER AUTHENTICATION FAILED│
                            │ FINGERPRINT MATCHS THE PIN│       │ IS SHOWN ON THE SCREEN   │
                            ╲─────────────────────────╱       └──────────────────────────┘
                                        │
                          IF AUTHENTICATION IS SUCCESSFUL
                                        │
                                        ▼
                    ┌──────────────────────────────────────┐
                    │ THE WALLET(BANK ACCOUNT) LINKED TO THE │
                    │ FINGER PRINT IS FETCHED               │
                    └──────────────────────────────────────┘
                                        │
                                        ▼
        ┌──────────────────────────────────────┐                ┌──────────────────────────┐
        │ AFTER FETCHING, CHECKS FOR THE        │  IF LOW BALANCE │ TRANSACTION FAILED      │
        │ BALANCE, IF BALANCE IS GREATER THEN   │───────────────▶│ IS SHOWN ON THE SCREEN  │
        │ THE BILL, THEN BILL AMOUNT IS DEBITED │                └──────────────────────────┘
        └──────────────────────────────────────┘
                                        │
                                        ▼
                    ┌──────────────────────────────────────┐
                    │ TRANSACTION IS SUCCESSFUL,            │
                    │ STATUS IS SHOW ON THE SCREEN          │
                    └──────────────────────────────────────┘
```

TOTAL:200
ENTER YOUR PIN

＊ ＊ ＊ ＊ ＊

1	2	3
4	5	6
7	8	9
	0	