Credit Card System

processed by

Credit Card
- card holder
- get expiry date
- card no.
- cvv no.
- balance
- validate card()
- charge()
- add payments()
- get details()

Customer Account
- account id
- customer name
- email
- phone
- credit cards
- add credit cards()
- remove credit card()
- get account details()
- view credit card()

owns

Transaction
- transaction id
- amount
- date
- process()
- get details()

authorization 1

Authorization
- transaction id
- authorization id
- transaction id
- auth status
- associate()
- get associate()

authorized 1
transaction

Purchase transaction
- merchant name
- card used
- process()
- apply discount()

Refund transaction
- original trans id
- refund reason proven()
- validate
- refund()

Transfer transaction
- Sender acc
- recipient acc
- Process
- confirm
- transfer

raised against

Authorization
- auth id
- auth code
- status
- authorize transaction()
- get authorization status()

Dispute
- dispute id
- transaction id
- reason
- status
- raise dispute()
- check dispute status()
- resolve dispute()

Payment Gateway
- gateway name
- transaction fee
- authorize trans()
- charge transaction()
- refund transaction()