

Credit Card Processing System.

Credit Card
Cardholder name
Expiry date
Card number
CVV number
balance
validateCard()
charge()
add_payment()
get_details()

Customer Account
account_id
customer_name
email
phone
credit_cards
addCreditCard()
removeCreditCard()
getAccountDetails()
viewCreditCards()

processed by

Payment Gateway
gateway_name
transaction_fee
authorizeTransaction()
chargeTransaction()
refundTransaction()

Dispute
dispute_id
transaction_id
reason
Status
raiseDispute()
checkDisputeStatus()
resolveDispute()

authorization

Authorization
Transaction
authorization_id
transaction_id
auth_status
associate()
getAssociate()

Transaction
transaction_id
amount
date
process()
getDetails()

Purchase Transaction	Refund Transaction	Transfer Transaction
merchant_name	original_trans	sender_account
Card_used	-action_id	recipient_account
process()	refund_reason	process()
apply_discount()	process()	confirm_transaction()
	validateRefund()	

refused against

authorized transaction

Authorization
auth_id
auth_code
Status
authorizeTransaction()
getAuthorizationStatus()

processes