Credit Card Processing System.

Credit Card
- Cardholder name
- Expire date
- Card number
- CVV number
- balance
- Validate card ( )
- charge ( )
- add_payment ( )
- get_details ( )

Customer Account
- account_id
- customer_name
- email
- phone
- credit_cards
- add credit card ( )
- remove_credit_card ( )
- get_account_details ( )
- view_credit_cards ( )

Processed by

Customer
- Name
- Phone
- Address
- Update details

Admin
- Phone
- Address

Sovariate ?
.complet ?

Validity
- Expiry_date
- Renewal ( )

Administrator user
- Name
- phone no

Payment Gateway
- gateway_name
- transaction_fee
- authorize_transaction ( )
- change_transaction ( )
- refund_transaction ( )

Dispute
- dispute_id
- transaction_id
- reason
- Status
- raise_dispute ( )
- check_dispute_status ( )
- resolve_dispute ( )

{Ordered}

authorization
{Ordered}

Authorization_Transaction
- authorization_id
- transaction_id
- auth_status
- associate ( )
- get_associate ( )

Transaction (Italics, Abstract class)
- transaction_id
- amount
- date
- process ( )
- get_details ( )

Purchase Transaction
- merchant_name
- card_used
- process ( )
- apply_discount ( )
- get_details ( )

Refund Transaction
- original_trans -action_id
- refund_reason
- process ( )
- validate_refund ( )
- get_details ( )

Transfer Transaction
- sender_account
- recipient_account
- process ( )
- confirm_ transfer ( )
- get_details ( )

raised against

authorized transaction
authorized transaction

Authorization
- auth_id
- auth_code
- Status
- authorize_ transaction ( )
- get_authori -zation_status ( )

Processes