

**K2 Ventures**

**Database diagram V1.2**

**Database schema document**

Prepared by

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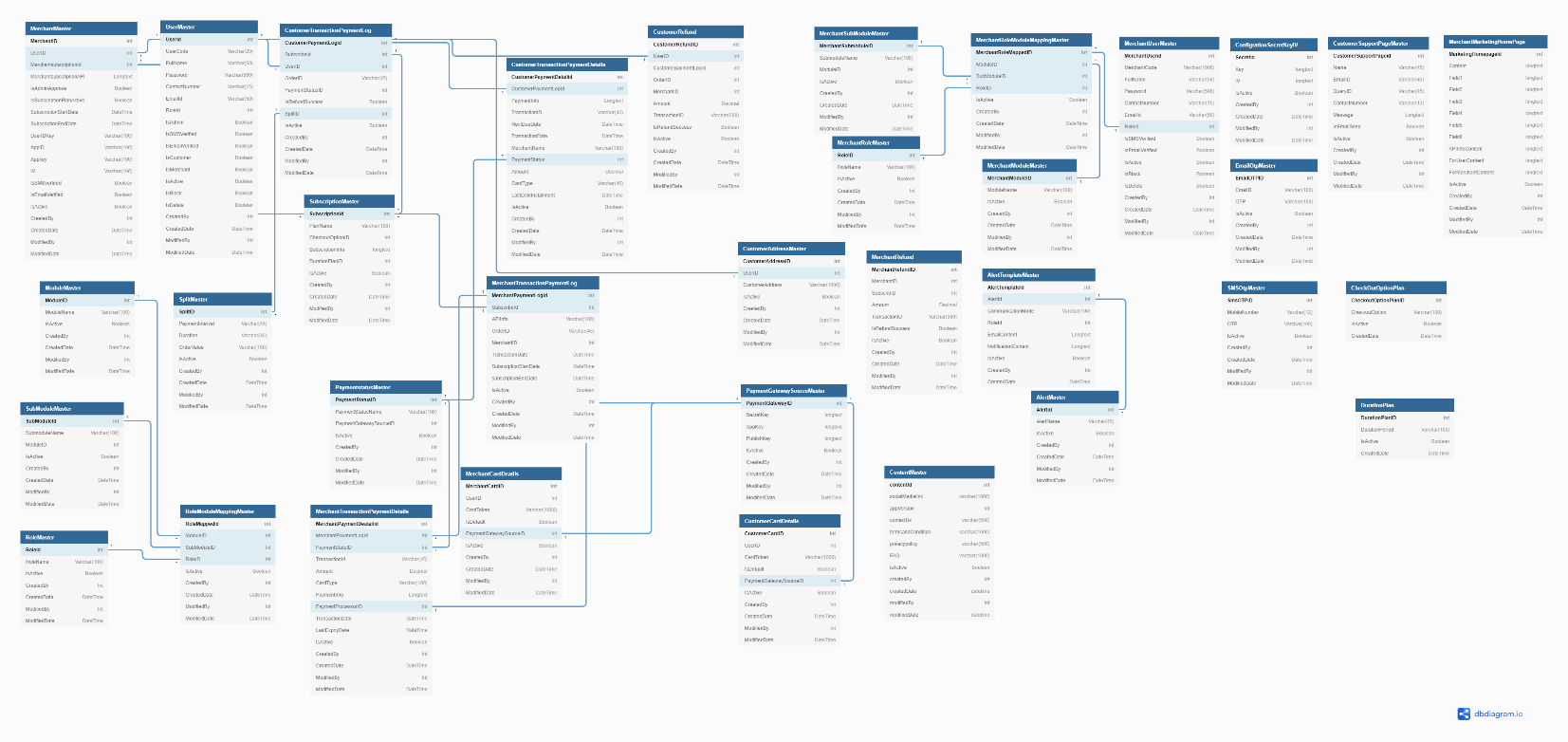
# Purpose

This document is helpful to understand K2 Ventures database schema and relation between all tables. Details of the ER and Tables for the backend of the Instant Pay Payment Application has been mentioned in this document which will define the detailed relationship between database table and data storage part.

# Scope

Scope of this document is to understand Entity relationship of all modules related to end user/Merchant/Admin Master screen.

# K2 ventures DB Diagram





# Schema Details

## User Master-

* K2 end User customer and merchant details will be inserted inside user master table. with the help of isuser and ismerchant flag we can decide userType.
* Also all the admin user will be inserted in user master table.
* If IsUser Flag Set as 1 then Secondary Table will have customer master details.
* If IsMerchant Flag Set as 1 then Secondary Table will have Merchant Master details.
* User Master table will be used for Login Authentication, Forgot Password and My Profile.

**Table Name: UserMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| UserID | Int | The Index ID of table | Not null- Primary Key |
| UserCode | Varchar(20) | Unique code combination of UnixTimeStamp+RandomNumber(999,1000000) | Not null |
| FirstName | Varchar(50) | First Name of Customer/Merchant/Admin | Not Null |
| LastName | Varchar(50) | Last Name of customer | Not Null |
| Password | Varchar(500) | Encrypted password | Not Null |
| ContactNumber | Varchar(15) | User mobile number | Not Null |
| EmailId | Varchar(50) | Email ID of Customer/Merchant/Admin | Not Null |
| RoleId | Int | Foreign key of Role Mapping Master ID. | Not Null- Foreign key |
| IsAdmin | Boolean | Set Flag true if Admin portal access . | Not Null |
| IsSMSVerified | Boolean | Customer validate by SMS – IF enter OTP matches Set flag as true |  |
| IsEmailVerified | Boolean | Customer validate by Email - IF enter OTP matches Set flag as true |  |
| IsCustomer | Boolean | Set Flag true if Customer portal access - | Not Null |
| IsMerchantUser | Boolean | Set Flag true if Merchant user |  |  |
| IsAdminApproveMerchant | Boolean | Set Flag true if Admin approve |  |  |
| IsMerchantAdmin | Boolean | Set Flag true if merchant portal access - | Not Null |
| MerchantCode | Varchar(100) | If user is of Merchant internal user – then this need to added – IsMerchant User |  |
| IsActive | Boolean | Active or DeActive the record | Not Null |
| IsBlock | Boolean | Customer block – Set flag true |  |
| IsLocked | Boolean | Locked user Account for specific Timer Interval |  |
| PasswordAttempt | Int | Password attempted count |  |
| IsDelete | Boolean | If Entry Deleted maintain soft delete |  |
| CreatedBy | Int | By Deafult Admin Entry. | Not Null |
| CreatedDate | DateTime | Created Date of record | Not Null |
| ModifiedBy | Int | Set UserID who modified record |  |
| ModifiedDate | DateTime | Modified Date of Record. |  |

## Customer Address Master

* Customer address will be inserted in customer address master. Customer may have multiple billing address.

**Table Name: CustomerAddressMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| CustomerAddressID | Int | Table Index ID | Not Null - Primary Key |
| UserID | Int | Foreign key of user master | Not Null- Foreign key |
| StreetAddress | Varchar(45) | Customer City Name | Not Null |
| City | Varchar(45) | Customer City City | Not Null |
| State | Varchar(45) | Customer City State | Not Null |
| Pincode | Varchar(45) | Customer City PinCode | Not Null |
| Country | Varchar(45) | Customer City Country | Not Null |
| IsActive | Boolean | Active or DeActive the record | Not Null |
| CreatedBy | Int | Set UserID who created record | Not Null |
| CreatedDate | DateTime | Created Date of record | Not Null |
| ModifiedBy | Int | Set UserID who modified record |  |
| ModifiedDate | DateTime | Modified Date of Record. |  |

## Customer Card Detail Master

* Customer card details will be save in card access Payment gateway and CAS will return token against each customer card details. Token will store in customer card master.
* Default card can be selected by customer with is Default column.
* End user card details are saved in this table with Payment Gateway source.

**Table Name: CustomerCardDetails**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| CustomerCardId | Int | Table index ID | Not Null- Primary key |
| UserID | Int | Foreign key UserMaster | Not Null- Foreign key |
| CardToken | Varchar(1000) | After card detail added one token saved in DB | Not Null |
| IsDefault | Boolean | Set Flag true for primary card |  |
| PaymentGatewaySourceID | Int | Foreign key of Payment Gateway Source Table | Not Null- Foreign key |
| IsDelete | Boolean | Delete Record– Soft Delete. |  |
| IsActive | Boolean | Active or DeActive the record | Not Null |
| CreatedBy | Int | Set UserID Who created record | Not Null |
| CreatedDate | DateTime | Created Date of record | Not Null |
| ModifiedBy | Int | Set UserID who modified record |  |
| ModifiedDate | DateTime | Modified Date of Record. |  |

## Payment Gateway Source Detail Master

* Below tables store card access payment gateway configuration details.
* To access card access API’s payment gateway source details to be used

**Table Name: PaymentGatewaySourceDetails**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| PaymentGatewaySourceID | Int | Table index ID | Not Null-Primary Key |
| SecretKey | Longtext | Secrete Keys information | Not Null |
| PaymentGatewayName | Varchar(45) | Payment Gateway Name | Not Null |
| AppKey | Longtext | APP keys information |  |
| APICode | Longtext | API Code |  |
| PublishKey | Longtext | Publish Keys information |  |
| IsActive | Boolean | Active or DeActive the record | Not Null |
| CreatedBy | Int | Set UserID Who created record | Not Null |
| CreatedDate | DateTime | Created Date of record | Not Null |
| ModifiedBy | Int | Set UserID who modified record |  |
| ModifiedDate | DateTime | Modified Date of Record. |  |

## SMS OTP

* This master will have SMS OTP information. Sent by K2 SMS Provider.
* Once customer or merchant send OTP via SMS Provider all the previous entries will be deactivated for particular user.
* Current entry will be in activate mode.
* To Confirm OTP following table will be used.

**Table Name: SMSOTP**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| SMSOTPID | Int | Table index ID | Not Null-Primary Key |
| MobileNumber | Varchar(15) | Customer Mobile Number | Not Null |
| OTP | Varchar(100) | OTP sent by SMS provider will be insert in this column | Not Null |
| UserID | Int | Foreign Key of User Master |  |
| IsCustomer | Boolean | To identify source of user | Not Null |
| IsMerchant | Boolean | To identify source of user – if it from registration of merchant or customer | Not Null |
| IsActive | Boolean | Active or DeActive the record | Not Null |
| CreatedBy | Int | Set UserID who created record | Not Null |
| CreatedDate | DateTime | Created Date of record | Not Null |
| ModifiedBy | Int | Set UserID who modified record |  |
| ModifiedDate | DateTime | Modified Date of Record. |  |

## Email OTP

* This master will have SMS OTP information. Sent by K2 SMS Provider.
* Once customer or merchant send OTP via SMS Provider all the previous entries will be deactivated for particular user.
* Current entry will be in activate mode.
* To Confirm OTP following table will be used.

**Table Name: EmailOTP**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| EmailOTPID | Int | Table index ID | Not Null- Primary key |
| EmaiID | Varchar(100) | User email id | Not Null |
| OTP | Varchar(100) | OTP sent by SMS Provider will be insert in this column. | Not Null |
| UserID | Int | Foreign Key of User Master |  |
| IsCustomer | Boolean | To identify source of user | Not Null |
| IsMerchant | Boolean | To identify source of user – if it from registration of merchant or customer | Not Null |
| IsActive | Boolean | Active or DeActive the record | Not Null |
| CreatedBy | Int | Set UserID who created record | Not Null |
| CreatedDate | DateTime | Created Date of record | Not Null |
| ModifiedBy | Int | Set UserID who modified record |  |
| ModifiedDate | DateTime | Modified Date of Record. |  |

## Payment Status Master

* This master will have all the transaction payment details.
* Following status will be part of the payment status master

1. Success
2. Failure
3. Payment Hold
4. Cancel
5. Refund

**Table Name: PaymentStatus:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| PaymentStatusID | Int | Table index ID | Not Null-Primary Key |
| PaymentStatusName | Varchar(100) | Payment status Name | Not Null |
| PaymentGatewaySourceID | Int | Foreign key of Payment Gateway Source ID | Not Null- Foreign key |
| IsActive | Boolean | Active or DeActive the record | Not Null |
| CreatedBy | Int | Set UserID Who created record | Not Null |
| CreatedDate | DateTime | Created Date of record | Not Null |
| ModifiedBy | Int | Set UserID who modified record |  |
| ModifiedDate | DateTime | Modified Date of Record. |  |

## Customer Payment Transaction Details

* Customer payment transaction details will be saved inside customer transaction payments log.
* Payment information will be saved in customerTransactionPaymentLog Table. customerTransactionPaymentLog will contain payment Type option and user selected (One Click or Split) option will be inserted in this table.
* Customer Dashboard data will be fetch from below customerTransactionLog and customerTransactionDetail table.

**Table Name: ~~CustomerTransactionPaymentLog~~ CustomerTransactionPaymentDetail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| CustomerPaymentDetailID | Int | Table Index ID | Not Null-Primary Key |
| SubscribeId | Int | Foreign key of subscription management master- which API customer used during checkout – Split/one click or Both | Not Null |
| UserID | Int | Foreign key of user master | Not Null |
| UserCode | Varchar(20) |  |  |
| UserName | Varchar(45) | UserName | Not Null |
| OrderID | Varchar(45) | Every transaction there must be one order ID. | Not Null |
| PaymentStatus | Varchar(45) | PaymentStatus Name |  |
| PaymentStatusID | Int | Foreign key of Payment status Master table. |  |
| IsRefundSuccess | Boolean | If refund successfully done Set flag true else false |  |
| SplitID | Int | Foreign key of split management master. |  |
| SplitType | Varchar(45) | SplitType for user |  |
| TransactionDate | DateTime | Date of transaction |  |
| MerchantID | Int | FK of merchant master |  |
| MerchantCode | Varchar(100) | Merchant code from merchant master |  |
| MerchantName | Varchar(45) | MerchantName thorugh order purchase |  |
| Amount | Decimal | Purchase amount |  |
| PaymentInfo | Varchar(500) | Info about payment brief |  |
| TransactionID | Varchar(100) | Unique Transaction number |  |
| NextDueDate | DateTime | Next instalment date |  |
| CustomerCardToken | Varchar(100) | Customer Card Token. |  |
| LastDateInstallment | DateTime | Date of last instalment |  |
| PaymentProcessorID | Int | FK of Payment source master |  |
| PaymentSource | Varchar(45) | PaymentSource Name |  |
| IsSmsSent | Boolean | Set true if flag is success |  |
| IsEmailSent | Boolean | Set true if flag is success |  |
| IsRefundSuccess | Boolean | Set true if flag is success |  |
| IsActive | Boolean | Active or DeActive the record | Not Null |
| CreatedBy | Int | Set UserID Who created record | Not Null |
| CreatedDate | DateTime | Created Date of record | Not Null |
| ModifiedBy | Int | Set UserID who modified record |  |
| ModifiedDate | DateTime | Modified Date of Record. |  |

**~~Table Name: CustomerTransactionPaymentDetails~~**

|  |  |  |  |
| --- | --- | --- | --- |
| **~~Column~~** | **~~DataType~~** | **~~Significance~~** | **~~Constraint~~** |
| ~~CustomerPaymentDeatailid~~ | ~~Int~~ | ~~Table Index ID~~ | ~~Not Null- Primary Key~~ |
| ~~CustomerPaymentLogId~~ | ~~Int~~ | ~~Foreign key of TransactionCustomerPaymentLog table~~ | ~~Not Null- Foreign key~~ |
| ~~PaymentInfo~~ | ~~Longtext~~ | ~~Payment additional info comment~~ |  |
| ~~TransactionID~~ | ~~Varchar(45)~~ | ~~Every payment there is different transaction ID against one order ID – it will be unique~~ |  |
| ~~NextDueDate~~ | ~~DateTime~~ | ~~Next due date for instalment~~ |  |
| ~~TransactionDate~~ | ~~DateTime~~ | ~~Transaction date of payment process~~ |  |
| ~~MerchantName~~ | ~~Varchar(100)~~ | ~~Merchant name~~ |  |
| ~~PaymentStatus~~ | ~~Int~~ | ~~Foreign key of Payment Status Master Table.~~ | ~~Foreign key~~ |
| ~~Amount~~ | ~~Decimal~~ | ~~Order purchase amount~~ |  |
| ~~CardType~~ | ~~Varchar(45)~~ | ~~Card type used while order purchase~~ |  |
| ~~LastDateInstallment~~ | ~~DateTime~~ | ~~Set last instalment date~~ |  |
| ~~IsActive~~ | ~~Boolean~~ | ~~Active or DeActive the record~~ | ~~Not Null~~ |
| ~~CreatedBy~~ | ~~Int~~ | ~~Set UserID who created record~~ | ~~Not Null~~ |
| ~~CreatedDate~~ | ~~DateTime~~ | ~~Created Date of record~~ | ~~Not Null~~ |
| ~~ModifiedBy~~ | ~~Int~~ | ~~Set UserID who modified record~~ |  |
| ~~ModifiedDate~~ | ~~DateTime~~ | ~~Modified Date of Record.~~ |  |

## Merchant Master

* Add merchant details in this details.

**Table Name: MerchantMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| Merchantid | Int | Table Index ID | Not Null-Primary Key |
| MerchantCode | Varchar(100) | Merchant Code – Combination of Random number and UnixTimeStamp | Not Null |
| MerchantName | Varchar(1000) | Merchant Name | Not Null |
| MerchantUrl | Varchar(1000) | Merchant Domain URL | Not Null |
|  |  |  |  |
| Country | Varchar(45) | Merchant Country Name | Not Null |
| State | Varchar(45) | Merchant State Name | Not Null |
| City | Varchar(45) | Merchant City Name | Not Null |
| ABNNumber | Varchar(20) | Merchant PAN Name | Not Null |
| BusinessTypeID | Int | FK of business Master Type | Not Null |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified date of record |  |

## Merchant Subscription Master

* Merchant subscription detail will be in this table.

**Table Name: MerchantSubscriptionMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| MerchantsubscriptionId | Int | Table Index ID | PK |
| MerchantCode | Varchar(100) | Merchant Code |  |
| MerchantID | Int | FK of Merchant Master |  |
| SubscribeID | Int | FK of Subscribe master |  |
| ~~MerchantsubscriptionAPI~~ | ~~Longtext~~ | ~~API info for selected Plan~~ |  |
| ~~IsAdminApprove~~ | ~~Boolean~~ | ~~If Admin approve Set flag true~~ |  |
| ~~IsSubscriptionPlanActive~~ | ~~Boolean~~ | ~~Set true if plan is active or deactivate~~ |  |
| SubscriptionStartDate | DateTime | Subscription start date– To validate merchant subscription plan . |  |
| SubscriptionEndDate | DateTime | Subscription end date - To validate merchant subscription plan end date |  |
| Appkey | Varchar(100) | If merchant payment success send appkey |  |
| IV | Varchar(100) | if merchant payment success send IV |  |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified date of record |  |
|  |  |  |  |
|  |  |  |  |

## Merchant card detail master

* Merchant card details will be save in card access Payment gateway and CAS will return token against each merchant card details. Token will store in merchant card master.
* Default card can be selected by merchant with is Default column.
* End user card details are saved in this table with Payment Gateway source.

**Table Name: MerchantCardDetails**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| MerchantCardId | Int | Table index ID | Not Null- Primary key |
| UserID | Int | Foreign key UserMaster | Not Null- Foreign key |
| CardToken | Varchar(1000) | After card detail added one token saved in DB | Not Null |
| IsDefault | Boolean | Set Flag true for primary card |  |
| PaymentGatewaySourceID | Int | Foreign key of Payment Gateway Source Table | Not Null- Foreign key |
| IsActive | Boolean | Active or DeActive the record | Not Null |
| CreatedBy | Int | Set UserID Who created record | Not Null |
| CreatedDate | DateTime | Created Date of record | Not Null |
| ModifiedBy | Int | Set UserID who modified record |  |
| ModifiedDate | DateTime | Modified Date of Record. |  |

## Merchant Payment Transaction Details.

* Merchant payment transaction to be saved on merchantPaymentLog and MerchantTransactiondetail table.
* Payment complete detail information will be saved in merchantTransactionPaymentDetail.
* MerchantTransactionPaymentDetail - Payment Success Status +Amount+ Card Type+ Additional Info Payment + Payment Processor (Payment Gateway) all this information saved in merchantTransactionPaymentDetail.

**Table Name: MerchantTransactionPaymentDetail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| MerchantPaymentDetailID | Int | Table Index ID | Not Null-Primary key |
| MerchantSubscribeID | Int | Foreign Key of merchant subscription master | Not Null- |
| SubscriptionPlan | Varchar(45) | Subscription Plan |  |
| K2ReferanceTransactionID | Varchar(45) | Every transaction one OrderID will be inserted.- Combination OF Unique | Not Null |
| CASTransactionID | Varchar(45) | Every payment there is different transaction ID against one order ID – it will be unique |  |
| MerchantID | Int | Foreign key of merchant master | ~~Not Null-~~ |
| MerchantName | Varchar(45) | Merchant Name | Not Null |
| TransactionDate | DateTime | Date of transaction where payment proceed. |  |
| ~~SubscriptionStartDate~~ | ~~DateTime~~ | ~~Date of subscription plan start~~ |  |
| ~~SubscriptionEndDate~~ | ~~DateTime~~ | ~~Date of subscription plan end~~ |  |
| PaymentStatusID | Int | FK of payment status master |  |
| PaymentStatus | Varchar(45) | PaymentStatus |  |
| Amount | Decimal | Purchase amount |  |
| MerchantCardToken | Varchar(100) | Card details token |  |
| PaymentSource | Varchar(100) | Source Details of payment |  |
| MerchantCardID | Int | FK of Merchant Card detail master |  |
| PaymentProceedorID | Int | FK of payment processor master |  |
| IsActive | Boolean | Active or DeActive the record | Not Null |
| CreatedBy | Int | Set UserID Who created record | Not Null |
| CreatedDate | DateTime | Created Date of record | Not Null |
| ModifiedBy | Int | Set UserID who modified record |  |
| ModifiedDate | DateTime | Modified Date of Record. |  |

**~~Table Name: MerchantTransactionPaymentDetails~~**

|  |  |  |  |
| --- | --- | --- | --- |
| **~~Column~~** | **~~DataType~~** | **~~Significance~~** | **~~Constraint~~** |
| ~~MerchantPaymentDetailid~~ | ~~Int~~ | ~~Table index ID~~ | ~~Not Null-Primary key~~ |
| ~~MerchantPaymentLogId~~ | ~~Int~~ | ~~Foreign key of TransactionMerchantLog~~ | ~~Not Null- Foreign key~~ |
| ~~PaymentStatuID~~ | ~~Int~~ | ~~Foreign key of payment status master~~ | ~~Foreign key~~ |
| ~~TransactionId~~ | ~~Varchar(45)~~ | ~~Every payment there is different transaction ID against one order ID – it will be unique~~ |  |
| ~~Amount~~ | ~~Decimal~~ | ~~Amount that has been paid~~ |  |
| ~~CardType~~ | ~~Varchar(100)~~ | ~~Credit or debit card~~ |  |
| ~~PaymentInfo~~ | ~~Longtext~~ | ~~Additional info regarding payment~~ |  |
| ~~PaymentProcessorID~~ | ~~Int~~ | ~~Foreign key of Payment Processor Master Table.~~ | ~~Foreign key~~ |
| ~~TransactionDate~~ | ~~DateTime~~ | ~~Date of payment process~~ |  |
| ~~LastExpriyDate~~ | ~~DateTime~~ | ~~Expiration date of subscription plan~~ |  |
| ~~IsActive~~ | ~~Boolean~~ | ~~Active or DeActive the record~~ | ~~Not Null~~ |
| ~~CreatedBy~~ | ~~Int~~ | ~~Set UserID Who created record~~ | ~~Not Null~~ |
| ~~CreatedDate~~ | ~~DateTime~~ | ~~Created Date of record~~ | ~~Not Null~~ |
| ~~ModifiedBy~~ | ~~Int~~ | ~~Set UserID who modified record~~ |  |
| ~~ModifiedDate~~ | ~~DateTime~~ | ~~Modified Date of Record.~~ |  |

## Merchant Marketing Home Page

* Merchant marketing content data will be stored in this table.

**Table Name: MerchantMarketingPage**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Datatype** | **Significance** | **Constraint** |
| MarketingHomePageid | Int | Table index ID | Not Null-Primary Key |
| Content | longtext | Static content mention about website mention in this field | Not Null |
| Field1 | longtext | Additional more field |  |
| Field2 | longtext | Additional more field |  |
| Field3 | longtext | Additional more field |  |
| Field4 | longtext | Additional more field |  |
| Field5 | longtext | Additional more field |  |
| Field6 | longtext | Additional more field |  |
| APIInfoContent | longtext | API small information about user guide |  |
| ForUserContent | longtext | For user related static info mention |  |
| ForMerchantContent | longtext | For merchant related static info mention |  |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified date of record |  |

## Customer Support –Contact Page

* Customer support page if any query raises by any customer/Merchant, all his/her details will be stored in this table.
* Customer support Mail will to be triggered on given mail ID once information insert Into this table

**Table Name: CustomerSupportPage**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| CustomerSupportPageid | Int | Table index ID | Not Null-Primary Key |
| Name | Varchar(45) | Name of the person who contact | Not Null |
| EmailID | Varchar(45) | Email ID of the contact person | Not Null |
| QueryID | Varchar(45) | This will be sent on email as a reference for customer query | Not Null |
| ContactNumber | Varchar(12) | Contact number of person | Not Null |
| Message | Longtext | Query about person write in this field | Not Null |
| IsEmailSend | Boolean | Mail triggered successfully Set this as true |  |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified date of record |  |

## ~~Merchant User Management – This table need to remove and add flag in User master~~

* ~~Merchant user role access can be given from below table.~~

**~~Table Name: MerchantUserMaster~~**

|  |  |  |  |
| --- | --- | --- | --- |
| **~~Column~~** | **~~DataType~~** | **~~Significance~~** | **~~Constraint~~** |
| ~~MerchantUserID~~ | ~~Int~~ | ~~Table Index ID~~ | ~~Not null-PrimaryKey~~ |
| ~~MerchantID~~ | ~~Int~~ | ~~FK of merchant master~~ | ~~Not Null~~ |
| ~~MerchantCode~~ | ~~Varchar(1000)~~ | ~~Unique code combination of UnixTimeStamp+RandomNumber~~ | ~~Not null~~ |
| ~~FirstName~~ | ~~Varchar(50)~~ | ~~First Name of Merchant~~ | ~~Not Null~~ |
| ~~LastName~~ | ~~Varchar(50)~~ | ~~Last Name of Merchant~~ |  |
| ~~Password~~ | ~~Varchar(500)~~ | ~~Encrypted password~~ | ~~Not Null~~ |
| ~~ContactNumber~~ | ~~Varchar(15)~~ | ~~Merchant mobile number~~ | ~~Not Null~~ |
| ~~EmailId~~ | ~~Varchar(50)~~ | ~~Email ID of Merchant~~ | ~~Not Null~~ |
| ~~RoleId~~ | ~~Int~~ | ~~Foreign key of RoleMappingMaster ID.~~ | ~~Not Null- Foreign key~~ |
| ~~IsAdmin~~ | ~~Boolean~~ | ~~Set true if isAdmin~~ |  |
| ~~IsUser~~ | ~~Boolean~~ | ~~Set True if isUser~~ |  |
| ~~IsSMSSent~~ | ~~Boolean~~ | ~~Merchant validate by SMS - IF enter OTP matches Set flag as true~~ |  |
| ~~IsEmailSent~~ | ~~Boolean~~ | ~~Merchant validate by Email - IF enter OTP matches Set flag as true~~ |  |
| ~~IsActive~~ | ~~Boolean~~ | ~~Active or DeActive the record~~ | ~~Not Null~~ |
| ~~IsBlock~~ | ~~Boolean~~ | ~~Merchant block – Set flag true~~ |  |
| ~~IsDelete~~ | ~~Boolean~~ | ~~If Entry Deleted - maintain soft delete~~ |  |
| ~~CreatedBy~~ | ~~Int~~ | ~~Set UserID Who created record~~ | ~~Not Null~~ |
| ~~CreatedDate~~ | ~~DateTime~~ | ~~Created Date of record~~ | ~~Not Null~~ |
| ~~ModifiedBy~~ | ~~Int~~ | ~~Set UserID who modified record~~ |  |
| ~~ModifiedDate~~ | ~~DateTime~~ | ~~Modified Date of Record.~~ |  |

## Merchant Role and Permission

* Role and module access can be given from below table entry for merchant user.

**Table Name: MerchantRoleMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| RoleID | Int | Table Index ID | Not Null- Primary Key |
| RoleName | Varchar(100) | RoleName | Not Null |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |
|  |  |  |  |

**Table Name – MerchantModuleMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| Moduleid | Int | Table index ID | Not Null-Primary Key |
| ModuleName | Varchar(100) | Module Name | Not Null |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |

**Table Name – MerchantSubModuleMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| MerchantSubModuleID | Int | Table index ID | Not Null-Primary Key |
| SubmoduleName | Varchar(100) | Submodule Name | Not Null |
| ModuleID | Int | Foreign key of module master | Not Null- Foreign key |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |

**Table Name – MerchantRoleModuleMappingMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| MerchantRoleMappedID | Int | Table index ID | Not Null-Primary Key |
| ModuleID | Int | Foreign key of module master | Not Null- Foreign key |
| SubModuleID | Int | Foreign key of submodule master | Not Null- Foreign key |
| RoleID | Int | Foreign key of Role Master | Not Null- Foreign key |
| IsActive | Boolean | If record active Set flag true else false |  |
| CreatedBy | Int | Set UserID whose created record |  |
| CreatedDate | DateTime | Created date of record |  |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |

## Admin Master screen

## Split Management screen

* This master will store split Information regarding customer EMI option.

**Table Name: SplitPaymentMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| SplitID | Int | Table index ID | Not Null- Primary Key |
| PaymentInterval | Int | Duration of the payment e.g.- 3 /6/9 | Not Null |
| Duration | Varchar(45) | Set week/month/year of the value | Not Null |
| OrderFromValue | Decimal(18,2) | Set range from order value | Not Null |
| OrderToValue | Decimal(18,2) | Set range To order value | Not Null |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |

## Business Type Master

* This master will Business details.

**Table Name: BusinessTypeMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| BusinessTypeID | Int | Table index ID | Not Null- Primary Key |
| BusinessName | Varchar(45) | Business Name | Not Null |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |

## Subscription Management screen

* This master will store subscription Information regarding merchant API.

**Table Name: SubscriptionMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| SubscriptionId | Int | Table index ID | Not Null-Primary Key |
| PlanName | Varchar(100) | Subscription plan Detail | Not Null |
| CheckoutOption | Varchar(100) | it will have checkout option plan eg – one click +Split Click +Combo | Not Null- Foreign key |
| SubscriptionInfo | longtext | More info about subscription plan | Not Null |
| DurationPlan | Varchar(100) | It will have month /year value | Not Null- Foreign key |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record | Not Null |
| ModifiedDate | DateTime | Modified Date of record. |  |

## Alert Template screen

* ~~This master will store email and Notification content for the customer/admin and merchant~~

**~~Table Name: AlertMaster~~**

|  |  |  |  |
| --- | --- | --- | --- |
| **~~Column~~** | **~~DataType~~** | **~~Significance~~** | **~~Constraint~~** |
| ~~Alertid~~ | ~~Int~~ | ~~Table Index ID~~ | ~~Not Null-Primary Key~~ |
| ~~AlertName~~ | ~~Varchar(45)~~ | ~~Alert name~~ | ~~Not Null~~ |
| ~~IsActive~~ | ~~Boolean~~ | ~~If record active Set flag true else false~~ | ~~Not Null~~ |
| ~~CreatedBy~~ | ~~Int~~ | ~~Set UserID whose created record~~ | ~~Not Null~~ |
| ~~CreatedDate~~ | ~~DateTime~~ | ~~Created date of record~~ | ~~Not Null~~ |
| ~~ModifiedBy~~ | ~~Int~~ | ~~Set UserID whose modified record~~ |  |
| ~~ModifiedDate~~ | ~~DateTime~~ | ~~Modified Date of record.~~ |  |
|  |  |  |  |

**Table Name: AlertTemplateMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| AlertTemplateid | Int | Table index ID | Not Null-Primary Key |
| AlertName | Varchar(100) | Alert Name | Not Null |
| CommunicationMode | Varchar(100) | Communication mode eg. Email or Notification | Not Null |
| ~~RoleId~~ | ~~Int~~ | ~~Foreign key of Role mapping master ID~~ | ~~Not Null- Foreign key~~ |
| IsAdmin | Boolean | To identify template is for admin users | Not Null |
| IsCustomer | Boolean | To identify template is for K2 customer users | Not Null |
| IsMerchant | Boolean | To identify template is for Merchant | Not Null |
| EmailContent | Longtext | Email Content message | Not Null |
| NotificationContent | Longtext | Notification Content | Not Null |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |

## Roles & Permission

* This master will store the role and module access mapping for Admin users.

**Table Name: RoleMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| RoleID | Int | Table Index ID | Not Null- Primary Key |
| RoleName | Varchar(100) | RoleName | Not Null |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record | Not Null |
| ModifiedDate | DateTime | Modified Date of record. |  |
|  |  |  |  |

**Table Name – ModuleMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| ModuleID | Int | Table index ID | Not Null-Primary Key |
| ModuleName | Varchar(100) | Module Name | Not Null |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |

**Table Name – SubModuleMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| SubModuleid | Int | Table index ID | Not Null -Primary key |
| SubmoduleName | Varchar(100) | Sub module Name | Not Null |
| ModuleID | Int | Foreign key of module master | Not Null -Foreign key |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |

**Table Name – RoleModuleMappingMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| RoleMappedID | Int | Table index ID | Not Null- Primary Key |
| ModuleID | Int | Foreign key of module master | Not Null - Foreign key |
| SubModuleID | Int | Foreign key of submodule master | Not Null- Foreign key |
| RoleID | Int | Foreign key of Role Master | Not Null- Foreign Key |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |

## Configration Table:

## K2 Ventures Key and IV

* This Configuration master will store secret key of k2 ventures in encrypted format.
* It will be entered from back end (No Interface)

**Table Name – configrationSecretKeyIV**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| Secreteid | Int | Table index ID | Not Null-Primary Key |
| Key | longtext | Secrete key used for encrypt user id and appid of merchant . | Not Null |
| IV | longtext | Secrete iv used for encrypt user id and appid of merchant . | Not Null |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |

## Email Configuration

* This Configuration master will have email SMTP information.
* It will be entered from back end (No Interface)

**Table Name – ConfigrationEmail**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| EmailConfigId | Int | Table index ID | Not Null-Primary Key |
| EmailsenderID | Int | SenderID of user | Not Null |
| EmailSenderName | Varchar(100) | Sender Name | Not Null |
| SmtpPort | Varchar(100) | Port address | Not Null |
| SmtpHost | Varchar(100) | Host address | Not Null |
| EmailUserID | Int | User id from email to be triggered | Not Null |
| EmailPassword | Longtext | Email password encrypted | Not Null |
| IsEnableSSL | Boolean | SSL port Set value true else false | Not Null |
| IsBodyHtml | Boolean | Body html Set value true else false | Not Null |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record | Not Null |
| ModifiedDate | DateTime | Modified Date of record. |  |

## ~~Duration Plan~~

* ~~This master will have duration plan for subscription (eg. Month/Year- 3m/6m/9m)~~
* ~~It will be entered from back end entry (No Interface)~~

**~~Table Name – DurationPlan~~**

|  |  |  |  |
| --- | --- | --- | --- |
| **~~Column~~** | **~~DataType~~** | **~~Significance~~** | **~~Constraint~~** |
| ~~DurationPlanID~~ | ~~Int~~ | ~~Table index ID~~ | ~~Not Null-Primary Key~~ |
| ~~DurationPeriod~~ | ~~Varchar(100)~~ | ~~Month/year value will be add here eg -3M/6M/9M~~ | ~~Not Null~~ |
| ~~IsActive~~ | ~~Boolean~~ | ~~If record active Set flag true else false~~ | ~~Not Null~~ |
| ~~CreatedDate~~ | ~~DateTime~~ | ~~Created date of record~~ | ~~Not Null~~ |

## ~~checkout option Plan~~

* ~~This master will have checkout option eg- split/one click/Combo~~
* ~~It will be entered from back end entry (No Interface)~~

**~~Table Name – CheckOutOptionMaster~~**

|  |  |  |  |
| --- | --- | --- | --- |
| **~~Column~~** | **~~DataType~~** | **~~Significance~~** | **~~Constraint~~** |
| ~~CheckoutOptionPlanID~~ | ~~Int~~ | ~~Table index ID~~ | ~~Not Null-Primary Key~~ |
| ~~CheckoutOption~~ | ~~Varchar(100)~~ | ~~Split/One click /Combo option need to add here~~ | ~~Not Null~~ |
| ~~IsActive~~ | ~~Boolean~~ | ~~If record active Set flag true else false~~ | ~~Not Null~~ |
| ~~CreatedDate~~ | ~~DateTime~~ | ~~Created date of record~~ | ~~Not Null~~ |

## Customer Refund Master

* It will be entered from back end (No Interface)- once merchant initiate request through refund API there will be one entry inserted on this table with transaction ID and OrderId.

**Table Name: CustomerRefundMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **DataType** | **Significance** | **Constraint** |
| CustomerRefundID | Int | Table Index ID | Not Null – Primary Key |
| UserID | Int | Foreign Key of user master | Not Null – Foreign Key |
| CustomerpaymentLogId | Int | Foreign Key of customerPaymentLog Table | Not Null - Foreign Key |
| OrderID | Int | Refund initiated order ID | Not Null |
| MerchantID | Int | Merchant ID – raised request for refund | Not Null |
| Amount | Decimal | Amount to be refund |  |
| TransactionID | Varchar(500) | Transaction id of request |  |
| IsRefundSuccess | Boolean | Flag Set if refund success |  |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |

## Merchant Refund Master

* It will be entered from back end entry (No Interface)- once merchant initiate request through refund API there will be one entry inserted on this table with transaction ID.

**Table Name: MerchantRefundMaster**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Significance** | **Constraint** |
| MerchantRefundID | Int | Table Index ID | Not Null-Primary key |
| MerchantID | Int | Foreign Key of merchant master | Not Null-Foreign Key |
| SubscribID | Int | Foreign Key of subscribe Master | Not Null-Foreign Key |
| Amount | Decimal | Amount to be refund |  |
| TransactionID | Varchar(500) | Transaction id of request |  |
| IsRefundSuccess | Boolean | Flag Set if refund success |  |
| IsActive | Boolean | If record active Set flag true else false | Not Null |
| CreatedBy | Int | Set UserID whose created record | Not Null |
| CreatedDate | DateTime | Created date of record | Not Null |
| ModifiedBy | Int | Set UserID whose modified record |  |
| ModifiedDate | DateTime | Modified Date of record. |  |