



# platemate-crud-docs

## Platemate - Master Modules CRUD Documentation

### Online Tiffin Service Platform

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#### 1. Users Master

##### Database Table

**Table Name:** users

Column Name	Data Type	Constraints / Notes
user_id	BIGSERIAL (PK)	Primary Key
username	VARCHAR(100)	NOT NULL, Unique
email	VARCHAR(255)	NOT NULL, Unique
password_hash	VARCHAR(255)	NOT NULL
phone_number	VARCHAR(15)	NOT NULL
user_type	ENUM('CUSTOMER', 'PROVIDER', 'DELIVERY_PARTNER', 'ADMIN')	NOT NULL
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_active	BOOLEAN	NOT NULL, Default true

##### Classes

- **Entity** → User

- **Repository** → UserRepository
- **Service** → UserService
- **ServiceImpl** → UserServiceImpl
- **Controller** → UserController

## Endpoints

- **POST** `/api/users` → Create User
- **PUT** `/api/users/{id}` → Update User
- **GET** `/api/users` → Get All Users (active only)
- **GET** `/api/users/{id}` → Get User by Id
- **DELETE** `/api/users/{id}` → Soft Delete

## 2. Address Master

### Database Table

**Table Name:** addresses

Column Name	Data Type	Constraints / Notes
address_id	BIGSERIAL (PK)	Primary Key
user_id	BIGINT	FK → users.user_id
address_line_1	VARCHAR(255)	NOT NULL
address_line_2	VARCHAR(255)	NULL
city	VARCHAR(100)	NOT NULL
state	VARCHAR(100)	NOT NULL
pincode	VARCHAR(10)	NOT NULL
address_type	ENUM('HOME', 'OFFICE', 'OTHER')	NOT NULL
is_default	BOOLEAN	NOT NULL, Default false
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL

Column Name	Data Type	Constraints / Notes
is_deleted	BOOLEAN	NOT NULL, Default false

## Classes

- **Entity** → Address
- **Repository** → AddressRepository
- **Service** → AddressService
- **ServiceImpl** → AddressServiceImpl
- **Controller** → AddressController

## Endpoints

- **POST** `/api/addresses` → Create Address
- **PUT** `/api/addresses/{id}` → Update Address
- **GET** `/api/addresses/user/{userId}` → Get User Addresses
- **GET** `/api/addresses/{id}` → Get Address by Id
- **DELETE** `/api/addresses/{id}` → Soft Delete

## 3. Categories Master

### Database Table

**Table Name:** categories

Column Name	Data Type	Constraints / Notes
category_id	BIGSERIAL (PK)	Primary Key
category_name	VARCHAR(100)	NOT NULL, Unique
description	TEXT	NULL
image_url	VARCHAR(500)	NULL
is_active	BOOLEAN	NOT NULL, Default true
created_at	TIMESTAMP	NOT NULL, Default NOW()

Column Name	Data Type	Constraints / Notes
updated_at	TIMESTAMP	NOT NULL

## Classes

- **Entity** → Category
- **Repository** → CategoryRepository
- **Service** → CategoryService
- **ServiceImpl** → CategoryServiceImpl
- **Controller** → CategoryController

## Endpoints

- **POST** `/api/categories` → Create Category
- **PUT** `/api/categories/{id}` → Update Category
- **GET** `/api/categories` → Get All Categories (active only)
- **GET** `/api/categories/{id}` → Get Category by Id
- **DELETE** `/api/categories/{id}` → Soft Delete

# 4. Customers Master

## Database Table

**Table Name:** customers

Column Name	Data Type	Constraints / Notes
customer_id	BIGSERIAL (PK)	Primary Key
user_id	BIGINT	FK → users.user_id
full_name	VARCHAR(255)	NOT NULL
date_of_birth	DATE	NULL
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL

Column Name	Data Type	Constraints / Notes
is_deleted	BOOLEAN	NOT NULL, Default false

## Classes

- **Entity** → Customer
- **Repository** → CustomerRepository
- **Service** → CustomerService
- **ServiceImpl** → CustomerServiceImpl
- **Controller** → CustomerController

## Endpoints

- **POST** `/api/customers` → Create Customer
- **PUT** `/api/customers/{id}` → Update Customer
- **GET** `/api/customers` → Get All Customers
- **GET** `/api/customers/{id}` → Get Customer by Id
- **DELETE** `/api/customers/{id}` → Soft Delete

# 5. Delivery Zones Master

## Database Table

**Table Name:** delivery\_zones

Column Name	Data Type	Constraints / Notes
zone_id	BIGSERIAL (PK)	Primary Key
zone_name	VARCHAR(100)	NOT NULL
city	VARCHAR(100)	NOT NULL
pincode_ranges	TEXT	NOT NULL (JSON format)
is_active	BOOLEAN	NOT NULL, Default true
created_at	TIMESTAMP	NOT NULL, Default NOW()

Column Name	Data Type	Constraints / Notes
updated_at	TIMESTAMP	NOT NULL

## Classes

- **Entity** → DeliveryZone
- **Repository** → DeliveryZoneRepository
- **Service** → DeliveryZoneService
- **ServiceImpl** → DeliveryZoneServiceImpl
- **Controller** → DeliveryZoneController

## Endpoints

- **POST** `/api/delivery-zones` → Create Zone
- **PUT** `/api/delivery-zones/{id}` → Update Zone
- **GET** `/api/delivery-zones` → Get All Zones (active only)
- **GET** `/api/delivery-zones/{id}` → Get Zone by Id
- **DELETE** `/api/delivery-zones/{id}` → Soft Delete

# 6. Driving License Master

## Database Table

**Table Name:** driving\_licenses

Column Name	Data Type	Constraints / Notes
dl_id	BIGSERIAL (PK)	Primary Key
delivery_partner_id	BIGINT	FK → delivery_partners.delivery_partner_id
dl_number	VARCHAR(20)	NOT NULL, Unique
dl_image_front_url	VARCHAR(500)	NOT NULL
dl_image_back_url	VARCHAR(500)	NOT NULL
issue_date	DATE	NOT NULL

Column Name	Data Type	Constraints / Notes
expiry_date	DATE	NOT NULL
issuing_authority	VARCHAR(100)	NOT NULL
is_verified	BOOLEAN	NOT NULL, Default false
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_deleted	BOOLEAN	NOT NULL, Default false

## Classes

- **Entity** → DrivingLicense
- **Repository** → DrivingLicenseRepository
- **Service** → DrivingLicenseService
- **ServiceImpl** → DrivingLicenseServiceImpl
- **Controller** → DrivingLicenseController

## Endpoints

- **POST** `/api/driving-licenses` → Create DL
- **PUT** `/api/driving-licenses/{id}` → Update DL
- **GET** `/api/driving-licenses/partner/{partnerId}` → Get Partner DL
- **GET** `/api/driving-licenses/{id}` → Get DL by Id
- **DELETE** `/api/driving-licenses/{id}` → Soft Delete

## 7. Delivery Partners Master

### Database Table

**Table Name:** delivery\_partners

Column Name	Data Type	Constraints / Notes
delivery_partner_id	BIGSERIAL (PK)	Primary Key

Column Name	Data Type	Constraints / Notes
user_id	BIGINT	FK → users.user_id
full_name	VARCHAR(255)	NOT NULL
vehicle_type	ENUM('BIKE', 'SCOOTER', 'BICYCLE', 'CAR')	NOT NULL
commission_rate	DECIMAL(5,2)	NOT NULL, Default 0.00
service_area	TEXT	NOT NULL (JSON format)
is_available	BOOLEAN	NOT NULL, Default false
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_deleted	BOOLEAN	NOT NULL, Default false

## Classes

- **Entity** → DeliveryPartner
- **Repository** → DeliveryPartnerRepository
- **Service** → DeliveryPartnerService
- **ServiceImpl** → DeliveryPartnerServiceImpl
- **Controller** → DeliveryPartnerController

## Endpoints

- **POST** `/api/delivery-partners` → Create Partner
- **PUT** `/api/delivery-partners/{id}` → Update Partner
- **GET** `/api/delivery-partners` → Get All Partners
- **GET** `/api/delivery-partners/{id}` → Get Partner by Id
- **DELETE** `/api/delivery-partners/{id}` → Soft Delete

## 8. Tiffin Providers Master



## Database Table

**Table Name:** tiffin\_providers

Column Name	Data Type	Constraints / Notes
provider_id	BIGSERIAL (PK)	Primary Key
user_id	BIGINT	FK → users.user_id
zone_id	BIGINT	FK → delivery_zones.zone_id
business_name	VARCHAR(255)	NOT NULL
description	TEXT	NULL
commission_rate	DECIMAL(5,2)	NOT NULL, Default 0.00
provides_delivery	BOOLEAN	NOT NULL, Default false
delivery_radius	DECIMAL(5,2)	NULL
is_verified	BOOLEAN	NOT NULL, Default false
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_deleted	BOOLEAN	NOT NULL, Default false

## Classes

- **Entity** → TiffinProvider
- **Repository** → TiffinProviderRepository
- **Service** → TiffinProviderService
- **ServiceImpl** → TiffinProviderServiceImpl
- **Controller** → TiffinProviderController

## Endpoints

- **POST** `/api/tiffin-providers` → Create Provider
- **PUT** `/api/tiffin-providers/{id}` → Update Provider
- **GET** `/api/tiffin-providers` → Get All Providers
- **GET** `/api/tiffin-providers/{id}` → Get Provider by Id

- **DELETE** `/api/tiffin-providers/{id}` → Soft Delete

## 9. Menu Items Master

### Database Table

**Table Name:** menu\_items

Column Name	Data Type	Constraints / Notes
item_id	BIGSERIAL (PK)	Primary Key
provider_id	BIGINT	FK → tiffin_providers.provider_id
category_id	BIGINT	FK → categories.category_id
item_name	VARCHAR(255)	NOT NULL
description	TEXT	NULL
price	DECIMAL(10,2)	NOT NULL
ingredients	TEXT	NULL
meal_type	ENUM('VEG', 'NON_VEG', 'JAIN', 'SWAMINARAYAN')	NOT NULL
is_available	BOOLEAN	NOT NULL, Default true
image_url	VARCHAR(500)	NULL
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_deleted	BOOLEAN	NOT NULL, Default false

### Classes

- **Entity** → MenuItem
- **Repository** → MenuItemRepository
- **Service** → MenuItemService
- **ServiceImpl** → MenuItemServiceImpl
- **Controller** → MenuItemController

## Endpoints

- **POST** `/api/menu-items` → Create Item
  - **PUT** `/api/menu-items/{id}` → Update Item
  - **GET** `/api/menu-items/provider/{providerId}` → Get Provider Items
  - **GET** `/api/menu-items/{id}` → Get Item by Id
  - **DELETE** `/api/menu-items/{id}` → Soft Delete
- 

## 10. Cart Items Master

### Database Table

**Table Name:** cart\_items

Column Name	Data Type	Constraints / Notes
cart_item_id	BIGSERIAL (PK)	Primary Key
customer_id	BIGINT	FK → customers.customer_id
item_id	BIGINT	FK → menu_items.item_id
quantity	INTEGER	NOT NULL, Default 1
item_price	DECIMAL(10,2)	NOT NULL
item_total	DECIMAL(10,2)	NOT NULL
special_instructions	TEXT	NULL
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_deleted	BOOLEAN	NOT NULL, Default false

### Classes

- **Entity** → CartItem
- **Repository** → CartItemRepository
- **Service** → CartItemService
- **ServiceImpl** → CartItemServiceImpl

- **Controller** → CartItemController

## Endpoints

- **POST** `/api/cart-items` → Add to Cart
- **PUT** `/api/cart-items/{id}` → Update Cart Item
- **GET** `/api/cart-items/customer/{customerId}` → Get Customer Cart
- **GET** `/api/cart-items/{id}` → Get Cart Item by Id
- **DELETE** `/api/cart-items/{id}` → Remove from Cart

## 11. Orders Master

### Database Table

**Table Name:** orders

Column Name	Data Type	Constraints / Notes
order_id	BIGSERIAL (PK)	Primary Key
customer_id	BIGINT	FK → customers.customer_id
provider_id	BIGINT	FK → tiffin_providers.provider_id
delivery_partner_id	BIGINT	FK → delivery_partners.delivery_partner_id
order_status	ENUM('PENDING', 'CONFIRMED', 'PREPARING', 'READY', 'OUT_FOR_DELIVERY', 'DELIVERED', 'CANCELLED')	NOT NULL, Default 'PENDING'
cart_item_ids	TEXT	NOT NULL (JSON array of cart_item_id)
delivery_fee	DECIMAL(10,2)	NOT NULL, Default 0.00
platform_commission	DECIMAL(10,2)	NOT NULL, Default 0.00
total_amount	DECIMAL(10,2)	NOT NULL
delivery_address	TEXT	NOT NULL

Column Name	Data Type	Constraints / Notes
order_time	TIMESTAMP	NOT NULL, Default NOW()
estimated_delivery_time	TIMESTAMP	NULL
delivery_time	TIMESTAMP	NULL
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_deleted	BOOLEAN	NOT NULL, Default false

## Classes

- **Entity** → Order
- **Repository** → OrderRepository
- **Service** → OrderService
- **ServiceImpl** → OrderServiceImpl
- **Controller** → OrderController

## Endpoints

- **POST** `/api/orders` → Create Order
- **PUT** `/api/orders/{id}` → Update Order
- **GET** `/api/orders/customer/{customerId}` → Get Customer Orders
- **GET** `/api/orders/{id}` → Get Order by Id
- **DELETE** `/api/orders/{id}` → Cancel Order

# 12. Bank Account Details Master

## Database Table

**Table Name:** bank\_account\_details

Column Name	Data Type	Constraints / Notes
bank_account_id	BIGSERIAL (PK)	Primary Key

Column Name	Data Type	Constraints / Notes
user_id	BIGINT	FK → users.user_id
account_number	VARCHAR(20)	NOT NULL
ifsc_code	VARCHAR(11)	NOT NULL
branch_code	VARCHAR(10)	NOT NULL
account_holder_name	VARCHAR(255)	NOT NULL
bank_name	VARCHAR(100)	NOT NULL
branch_name	VARCHAR(100)	NOT NULL
is_verified	BOOLEAN	NOT NULL, Default false
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_deleted	BOOLEAN	NOT NULL, Default false

## Classes

- **Entity** → BankAccountDetails
- **Repository** → BankAccountDetailsRepository
- **Service** → BankAccountDetailsService
- **ServiceImpl** → BankAccountDetailsServiceImpl
- **Controller** → BankAccountDetailsController

## Endpoints

- **POST** `/api/bank-accounts` → Create Bank Account
- **PUT** `/api/bank-accounts/{id}` → Update Bank Account
- **GET** `/api/bank-accounts/user/{userId}` → Get User Bank Accounts
- **GET** `/api/bank-accounts/{id}` → Get Bank Account by Id
- **DELETE** `/api/bank-accounts/{id}` → Soft Delete

## 13. Payments Master

## Database Table

**Table Name:** payments

Column Name	Data Type	Constraints / Notes
payment_id	BIGSERIAL (PK)	Primary Key
order_id	BIGINT	FK → orders.order_id
payment_type	ENUM('PREPAID', 'COD')	NOT NULL
amount	DECIMAL(10,2)	NOT NULL
payment_status	ENUM('PENDING', 'SUCCESS', 'FAILED', 'REFUNDED')	NOT NULL
payment_method	ENUM('UPI', 'CREDIT_CARD', 'DEBIT_CARD', 'NET_BANKING', 'WALLET', 'CASH')	NOT NULL
transaction_id	VARCHAR(100)	NULL
payment_time	TIMESTAMP	NULL
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_deleted	BOOLEAN	NOT NULL, Default false

## Classes

- **Entity** → Payment
- **Repository** → PaymentRepository
- **Service** → PaymentService
- **ServiceImpl** → PaymentServiceImpl
- **Controller** → PaymentController

## Endpoints

- **POST** `/api/payments` → Process Payment
- **PUT** `/api/payments/{id}` → Update Payment Status
- **GET** `/api/payments/order/{orderId}` → Get Order Payments

- **GET** `/api/payments/{id}` → Get Payment by Id

## 14. Payouts Master

### Database Table

**Table Name:** payouts

Column Name	Data Type	Constraints / Notes
payout_id	BIGSERIAL (PK)	Primary Key
recipient_id	BIGINT	NOT NULL
recipient_type	ENUM('PROVIDER', 'DELIVERY_PARTNER')	NOT NULL
order_ids	TEXT	NOT NULL (JSON array of order_id)
amount	DECIMAL(10,2)	NOT NULL
commission_deducted	DECIMAL(10,2)	NOT NULL
net_amount	DECIMAL(10,2)	NOT NULL
status	ENUM('PENDING', 'PROCESSING', 'COMPLETED', 'FAILED')	NOT NULL
transaction_id	VARCHAR(100)	NULL
payout_time	TIMESTAMP	NULL
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_deleted	BOOLEAN	NOT NULL, Default false

### Classes

- **Entity** → Payout
- **Repository** → PayoutRepository
- **Service** → PayoutService
- **ServiceImpl** → PayoutServiceImpl



- **Controller** → PayoutController

## Endpoints

- **POST** `/api/payouts` → Create Payout
  - **PUT** `/api/payouts/{id}` → Update Payout Status
  - **GET** `/api/payouts/recipient/{recipientId}` → Get Recipient Payouts
  - **GET** `/api/payouts/{id}` → Get Payout by Id
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## 15. Provider Operating Hours Master

### Database Table

**Table Name:** provider\_operating\_hours

Column Name	Data Type	Constraints / Notes
id	BIGSERIAL (PK)	Primary Key
provider_id	BIGINT	FK → tiffin_providers.provider_id
day_of_week	INTEGER	NOT NULL (1-7, where 1=Monday)
open_time	TIME	NULL
close_time	TIME	NULL
is_closed	BOOLEAN	NOT NULL, Default false
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_deleted	BOOLEAN	NOT NULL, Default false

### Classes

- **Entity** → ProviderOperatingHours
- **Repository** → ProviderOperatingHoursRepository
- **Service** → ProviderOperatingHoursService
- **ServiceImpl** → ProviderOperatingHoursServiceImpl
- **Controller** → ProviderOperatingHoursController

## Endpoints

- **POST** `/api/operating-hours` → Create Operating Hours
- **PUT** `/api/operating-hours/{id}` → Update Operating Hours
- **GET** `/api/operating-hours/provider/{providerId}` → Get Provider Hours
- **GET** `/api/operating-hours/{id}` → Get Hours by Id
- **DELETE** `/api/operating-hours/{id}` → Soft Delete

## 16. Ratings & Reviews Master

### Database Table

**Table Name:** ratings\_reviews

Column Name	Data Type	Constraints / Notes
review_id	BIGSERIAL (PK)	Primary Key
customer_id	BIGINT	FK → customers.customer_id
rating_type	ENUM('ITEM_RATING', 'COOK_RATING', 'DELIVERY_RATING')	NOT NULL
target_id	BIGINT	NOT NULL (item_id, provider_id, or delivery_partner_id based on rating_type)
rating	INTEGER	NOT NULL (1-5)
review_text	TEXT	NULL
created_at	TIMESTAMP	NOT NULL, Default NOW()
updated_at	TIMESTAMP	NOT NULL
is_deleted	BOOLEAN	NOT NULL, Default false

### Classes

- **Entity** → RatingReview
- **Repository** → RatingReviewRepository

- **Service** → RatingReviewService
- **ServiceImpl** → RatingReviewServiceImpl
- **Controller** → RatingReviewController

## Endpoints

- **POST** `/api/ratings` → Create Rating/Review
- **PUT** `/api/ratings/{id}` → Update Rating/Review
- **GET** `/api/ratings/target/{targetId}` → Get Target Ratings
- **GET** `/api/ratings/{id}` → Get Rating by Id
- **DELETE** `/api/ratings/{id}` → Soft Delete

## Implementation Notes

### Common Enums

```
// User Types
public enum UserType {  CUSTOMER, PROVIDER, DELIVERY_P
  ARTNER, ADMIN
}
// Order Status
public enum OrderStatus {  PENDING, CONFIRMED, PREPARI
  NG, READY, OUT_FOR_DELIVERY, DELIVERED, CANCELLED
}
// Meal Types
public enum MealType {  VEG, NON_VEG, JAIN, SWAMINARAY
  AN
}
// Vehicle Types
public enum VehicleType {  BIKE, SCOOTER, BICYCLE, CAR
}
// Payment Method
public enum PaymentMethod {  UPI, CREDIT_CARD, DE
  BIT_CARD, NET_BANKING, WALLET, CASH
}
// Rating Types
public enum RatingType {  ITEM_RATING, COOK_RATING, DE
  LIVERY_RATING
}
```

### Standard Response Format

```
{  "status": "success|error",  "message": "Response message",  "data": {},
```

```
"timestamp": "2024-01-01T00:00:00Z"}
```

## Pagination Parameters

- **page:** Page number (default: 0)
- **size:** Page size (default: 20)
- **sort:** Sort field and direction (e.g., "created\_at,desc")

## Security Considerations

- All endpoints require JWT authentication except login/register
- Role-based access control implemented
- Sensitive data encrypted in database
- API rate limiting implemented
- Input validation and sanitization required

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