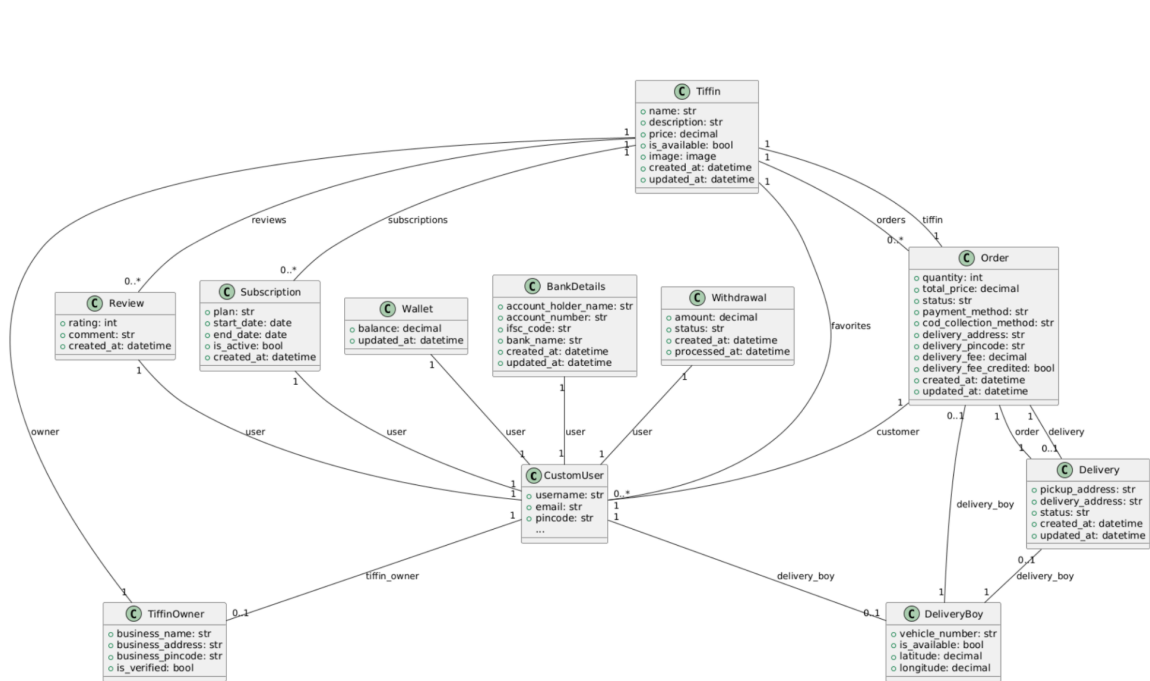


IT643 Software Design and Testing  
Team :- Boolean Developers

# Class Diagram:



# Key Features of the Class Diagram:

## 1. Entities (Classes):

- User Management: CustomUser, TiffinOwner, DeliveryBoy
- Business Entities: Tiffin, Order, Delivery
- Review System: Review, Subscription
- Financial Management: Wallet, BankDetails, Withdrawal

## 2. Attributes:

- Primary Keys: All entities have unique IDs
- Foreign Keys: Proper relationships between entities
- Business Logic Fields: Status enums, prices, addresses, etc.
- Audit Fields: Created/updated timestamps
- User-specific Fields: Phone, address, pincode, etc.

## 3. Behaviors (Methods):

- Core Operations: Save, update, calculate methods
- Business Logic: Status updates, delivery acceptance, wallet operations
- Validation: Rating validation, IFSC validation
- Utility Methods: String representations, balance checks

## 4. Relationships & Cardinalities:

- 1:1 Relationships: User ↔ TiffinOwner, User ↔ DeliveryBoy, User ↔ Wallet, Order ↔ Delivery
- 1:Many Relationships: TiffinOwner → Tiffins, Customer → Orders, Tiffin → Reviews
- Many:Many Relationships: Users ↔ Tiffins (favorites)
- Optional Relationships: DeliveryBoy can be null in Orders

