Domain Model Diagram

RoleType (E)
- ADMIN
- MANAGER
- VOLUNTEER
- DONOR

User (A)
- userid : UUID
- emailid : String
- fullname : String
- Contact no : String
- role : RoleType

OTPVerification (C)
- otpid : UUID
- code : String
- generatedAt : DateTime
- expiresAt : DateTime
- isUsed : Boolean

AuditEvent (C)
- eventid : UUID
- action : String
- timestamp : DateTime
- status : String

Notification (C)
- notification id : UUID
- messageText : String
- sentAt : DateTime

User — requests → OTPVerification (1 ... 0...*)
User — generates → AuditEvent (0...*)
User — recieves → Notification (0...*)

Administrator (C)
- adminlevel : String

Manager (C)
- department : String

Volunteer (C)
- isAvailable : Boolean

Donor (C)
- donorTier : String

Region (C)
- region id : UUID
- region Name : String

Branch (C)
- branch id : UUID
- branch Name : String
- address : String

Donation (C)
- donation id : UUID
- pickUpTime : DateTime
- pickupLocation : String
- donation Category : DonationCategory
- status : DonationStatus

Payment Transaction (C)
- transactionid : UUID
- amount : float
- currency : String
- paymentMethod : String
- processedAt : DateTime

Reciept (a)
- reciept id : UUID
- pdfdownitURL : String
- generatedAt : DateTime

Manager — manages → Region (1 ... 1)
Manager — assigned to → Branch (1 ... 1)
Region — Contains → Branch (1 ... 1...*)
Volunteer — assigns → Donation (0...* ... 0...*)
Volunteer — executes → Donation (1 ... 0...*)
Donor — initiates → Donation (1 ... 1...*)
Donation — involves → Payment Transaction (1 ... 0...1)
Payment Transaction — generates → Reciept (1 ... 1)

Donation Status (E)
- PENDING
- ASSIGNED
- COMPLETED

DonationCategory (E)
- FUNDS
- FOOD
- CLOTHING