

rolePermissions	
type of	Map
canCreateDonation	Boolean
canClaimDonation	Boolean
canDeleteDonation	Boolean
canManageUsers	Boolean
canViewAnalytics	Boolean
canRequestHelp	Boolean
canAssignVolunteers	Boolean

Donation_Data	
_id	String
date	Date
total_meals_served	Number
total_donors	Number
total_volunteers	Number
total_food_wasted	Number

Analytics_Data		
pk	_id	String
	date	Date
	region	String
	total_meals_donated	Number
	total_food_wasted	Number
	total_donors	Number
	total_volunteers	Number
	total_ngos	Number
	active_users	Number
	donation_success_rate	Number
	avg_donation_time	Number
	top_donors	[ObjectId](Array of top donors user IDs)
	top_volunteers	[ObjectId](Array of top volunteer user IDs)
	createdAt	Date
	updatedAt	Date

Leaderboard		
pk	_id	String
	date	Date
	ranking_type	String (Top Donors,Top Volunteers, Top NGO's)
	rankings	Array
	createdAt	Date
	updatedAt	Date

rankings		
pk	_id	String
fk	user_id	Object (References Users._id)
	rank	Number
	name	String
	profilePhoto	String
	contribution_points	Number
	donation_count	Number
	deliveries_completed	Number
	badges	Array

Donation_point		
pk	_id	String
	manager_id	ObjectId (References User._id, only managers)
	name	String
	description	String
	location-lat	Number
	location-lng	Number
	address	String
	active	Boolean
	createdAt	Date
	updatedAt	Date

Volunteer_Help		
pk	_id	String
	volunteer_id	ObjectId (References users.id, requesting volunteer)
	donation_id	[ObjectId] (References Donation_Box._id,donation needing help)
	status	String (Open,In Progress,Resolved,Cancelled)
	description	String
	requestedAt	Date
	resolvedAt	Date
	assistingVolunteers	[ObjectId] (Array of assisting volunteers users._id)

Notification		
pk	_id	String
fk	user_id	ObjectId (References Users._id)
	type	String (Donation,Update,Reminder,Achievement,Help Request,Other,Event)
	message	String
	read_status	Boolean
	createdAt	Date

Chat		
pk	_id	String
unique	thread_id	String
	sender_id	ObjectId (References Users._id)
	receiver_id	ObjectId (References Users._id)
	message	String
	timestamp	Date
	status	Type

User		
pk	_id	String
	verified	Boolean
	nickname	String
	firstName	String
	lastName	String
	age	number
unique	email	String (Unique email address)
unique	mobile	String (Unique mobile number)
	State	String
	City	String
	Locality	String
	Role	String (Admin,Manager,volunteer ,Restaurant,houseHold)
	profilePhoto	String (Path to profile photo)
	password	String
	availability_status	String (Available,Busy,Inactive)
	createdAt	Date
	updatedAt	Date
	contribution_Info	ObjectId(Reference Contribution_Info)
fk	donations	[ObjectId](Array of Donation_Box references)
fk	assigned_donation	[ObjectId] (Array of Volunteer_Donations references)
	helpRequests	[ObjectId](Array of Volunteer_Help references)
fk	notifications	[ObjectId](Array of Notification references)
	chatThreads	[ObjectId](Array of Chat rferences)
fk	Activity_logs	[ObjectId](Array of Activity_logs references)
fk	Reports	[ObjectId] (References to Report._id)

contribution_Info		
pk	_id	String
	user_id	ObjectId(References Users._id)
	rating	Number
	badges	[String] (Array of earned badges)
	donationPoints	Number
	volunteer_points	Number
	donation_Count	Number
	completed_deliveries	Number
	last_contribution	Date

Volunteer_Donations_delivery		
pk	_id	String
fk	vounteer_id	ObjectId (References User._id)
	donation_id	ObjectId(References Donation_Box._id)
	status	String (Accepted,Picked up,Delivered,Cancelled)
	timestamp	Date

Activity_logs		
pk	_id	String
fk	user_id	ObjectId (References Users.id)
	activity_type	String (e.g Donation Created,Profile Updated)
	timestamp	Date
	metadata	Object (Additional data,e.g {donation_id:'123'})

Reports		
pk	_id	String
fk	reporterId	ObjectId (References to Users._id)
fk	reportedUserId	ObjectId (References to Users._id)
	reportedDonationId	ObjectId (References to Donation_Box._id)
	reportType	String (Fake donation,harassment,spam,other)
	description	String
	evidence	[String](Array of evidence file url)
	status	String (Pending,reviewed,resolved)
	adminAction-ActionTaken	String (warning,ban,no_action,restricted)
	adminAction-reason	String
	adminAction-adminId	ObjectId (References to User._id)
	adminAction-timestamp	Date
	createdAt	Date
	updatedAt	Date

Donation_Box		
pk	_id	String
fk	user_id	ObjectId (References Users._id)
fk	volunteer_id	ObjectId (References Users._id)
	asssistingVolunteers	[ObjectId] (References User._id)
fk	ngo_id	ObjectId (References Users._id, Assigned NGO, Nullable)
fk	donation_point_id	ObjectId (References Donation_Points._id, Nullable)
	status	String (Pending,Accepted,Completed, Cancelled,Claimed,Delivered)
	food_image	String (url of food image)
	food_name	String
	food_type	String (Veg,Non-Veg)
	food_quantity	String
	food_cookedAt	Date
	food_expireAt	Date
	pickup_location	String (Detailed Address)
	location-lat	Number (Latitude)
	location-lng	Number (Longitude)
	pickup_time	Date
	delivery_time	Date
	createdAt	Date
	updatedAt	Date
	Reports	[ObjectId] (Array of Reports)
	helpRequests	[ObjectId] (Array of Volunteer_Help references)