TABLE DESIGN

1.Users Table

Stores information about donors, volunteers, and administrators.

Column	Data Type	Constraints	Description
Name			
user_id	INT	PRIMARY KEY,	Unique ID for
		AUTO_INCREMENT	each user.
name	VARCHAR(255)	NOT NULL	User's full name.
email	VARCHAR(255)	UNIQUE, NOT NULL	User's email
			(must be
			unique).
password	VARCHAR(255)	NOT NULL	Encrypted user
			password.
role	ENUM('donor',	DEFAULT 'donor'	Defines the user
	'volunteer', 'admin')		type.
created_at	TIMESTAMP	DEFAULT	When the user
		CURRENT_TIMESTAMP	registered.

2. Causes Table

Tracks active causes for donations and volunteering.

Column Name	Data Type	Constraints	Description
cause_id	INT	PRIMARY KEY,	Unique ID for
		AUTO_INCREMENT	each cause.
title	VARCHAR(255)	NOT NULL	Cause name/title.
description	TEXT	NOT NULL	Description of
			the cause.
target_amount	DECIMAL(10,2)	NOT NULL	Fundraising
			target amount.
raised_amount	DECIMAL(10,2)	DEFAULT 0	Amount raised so
			far.
status	ENUM('active',	DEFAULT 'active'	Indicates if
	'completed')		donations are still
			open.
created_at	TIMESTAMP	DEFAULT	When the cause
		CURRENT_TIMESTAMP	was created.

3. Donations Table

Records donations made by donors.

Column Name	Data Type	Constraints	Description
donation_id	INT	PRIMARY KEY,	Unique ID for
		AUTO_INCREMENT	each donation.
user_id	INT	FOREIGN KEY REFERENCES	ID of the donor.
		Users(user_id)	
cause_id	INT	FOREIGN KEY REFERENCES	ID of the cause
		Causes(cause_id)	donated to.
amount	DECIMAL(10,2)	NOT NULL	Donation
			amount.
payment_id	INT	FOREIGN KEY REFERENCES	ID of the
		Payments(payment_id)	payment
			transaction.
donation_date	TIMESTAMP	DEFAULT	When the
		CURRENT_TIMESTAMP	donation was
			made.

4. Payment Table

Column Name	Data Type	Constraints	Description
payment_id	INT	PRIMARY KEY,	Unique ID for
		AUTO_INCREMENT	each payment.
user_id	INT	FOREIGN KEY REFERENCES	ID of the donor.
		Users(user_id)	
<pre>payment_method</pre>	ENUM('UPI', 'Bank	NOT NULL	Selected payment
	Transfer')		method.
transaction_id	VARCHAR(255)	UNIQUE, NOT NULL	Reference ID from
			bank/UPI.
status	ENUM('pending',	DEFAULT 'pending'	Payment status.
	'completed', 'failed')		
paid_amount	DECIMAL(10,2)	NOT NULL	Amount paid by
			the donor.
payment_date	TIMESTAMP	DEFAULT	When the
		CURRENT_TIMESTAMP	payment was
			made.

5. Volunteers Table

Stores information about volunteers without specifying supported causes.

Column	Data Type	Constraints	Description
Name	-		_
volunteer_id	INT	PRIMARY KEY,	Unique ID for
		AUTO_INCREMENT	each volunteer.
user_id	INT	FOREIGN KEY	ID of the
		REFERENCES	volunteer
		Users(user_id)	(linked to
			Users).
location	VARCHAR(255)	NOT NULL	Location of the
			volunteer.
availability	ENUM('weekdays',	NOT NULL	When the
	'weekends', 'flexible')		volunteer is
			available.
skills	VARCHAR(255)	NULLABLE	Any skills the
			volunteer has.
created_at	TIMESTAMP	DEFAULT	When the
		CURRENT_TIMESTAMP	volunteer
			registered.

6. Volunteer_Causes Table

Links volunteers to the specific causes they support.

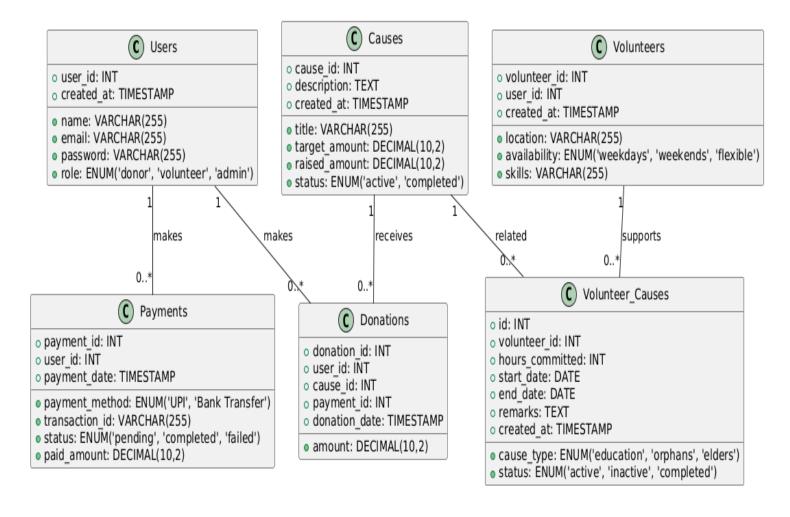
Column Name	Data Type	Constraints	Description
id	INT	PRIMARY KEY,	Unique ID for
		AUTO_INCREMENT	each record.
volunteer_id	INT	FOREIGN KEY	ID of the
		REFERENCES	volunteer.
		Volunteers(volunteer_id)	
cause_type	ENUM('education',	NOT NULL	The type of
	'orphans', 'elders')		cause the
			volunteer
			supports.
hours_committed	INT	DEFAULT 0	Number of
			hours
			committed by
			the volunteer.
start_date	DATE	NULLABLE	The date the
			volunteer starts
			supporting the
			cause.

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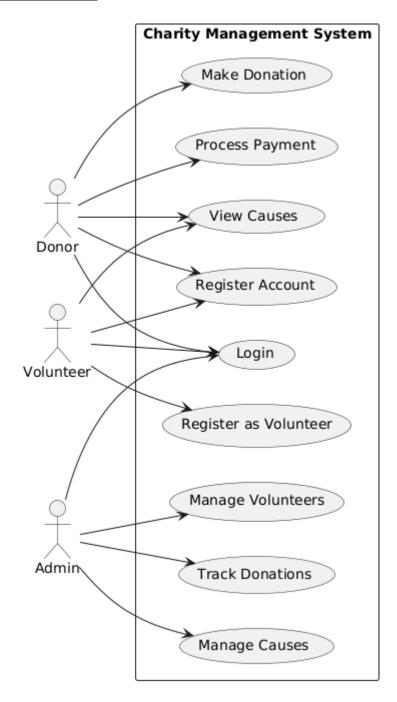
end_date	DATE	NULLABLE	The date the
			volunteer stops
			supporting the
			cause.
status	ENUM('active',	DEFAULT 'active'	Status of the
	'inactive',		volunteer's
	'completed')		participation.
remarks	TEXT	NULLABLE	Any additional
			notes or
			comments
			about the
			volunteer's
			work.
created_at	TIMESTAMP	DEFAULT	When the
		CURRENT_TIMESTAMP	record was
			created.

UML DIAGRAMS

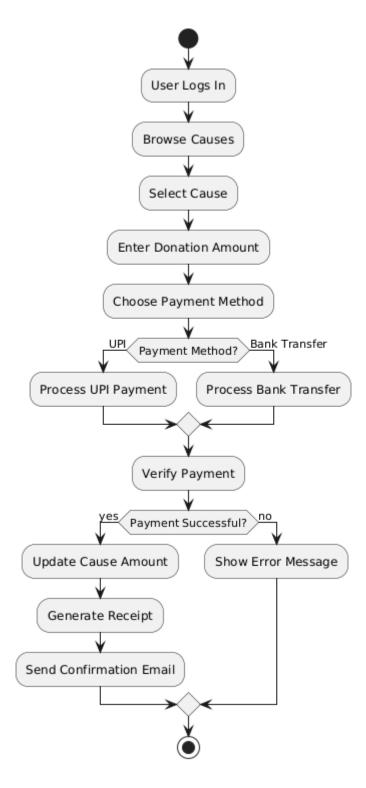
1.Class Diagram



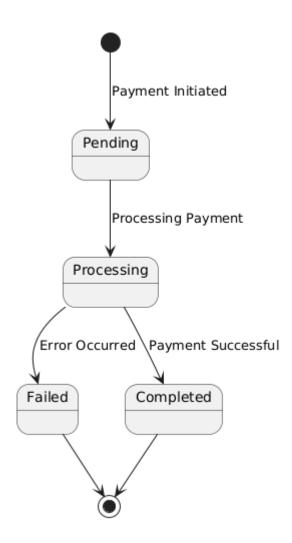
2.Use Case Diagram



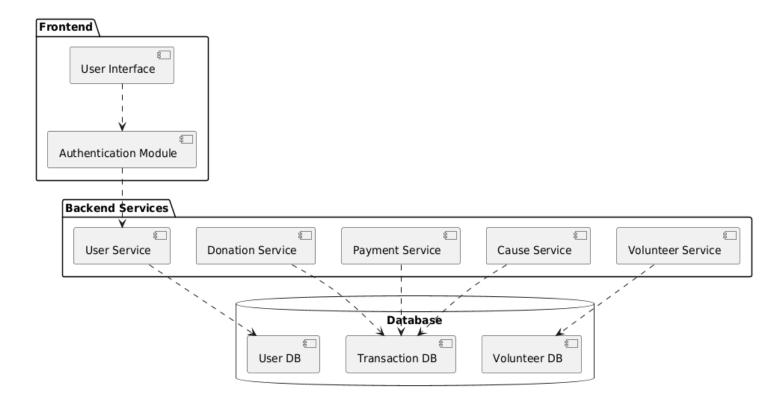
3.Activity Diagram



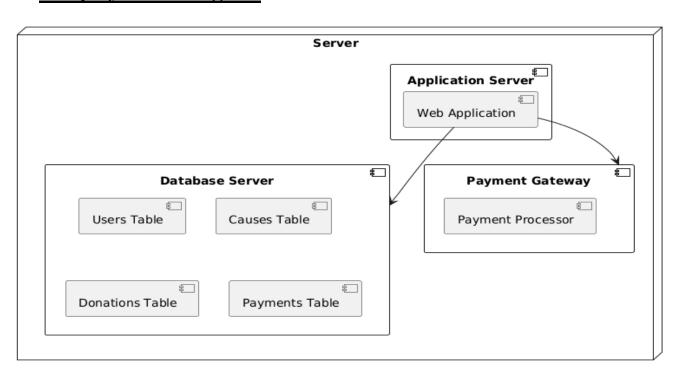
4.State Diagram



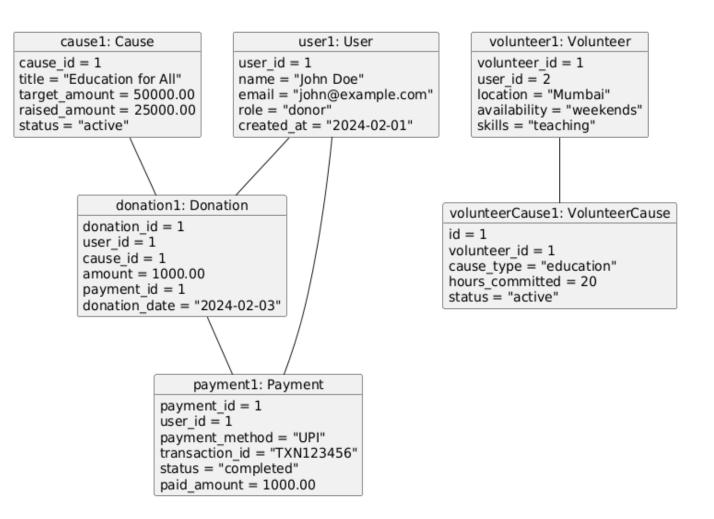
5.Component Diagram



6.Deployement Diagram



7. Object Diagram



8. Sequence Diagram

