

# Database Schema

## Sign in Page and Sign Up Page

### Users Table (for Sign Up and Sign in)

This table will store the basic user details like name, email, and password.

| <i>Field</i> | <i>Type</i>                       | <i>Description</i>               |
|--------------|-----------------------------------|----------------------------------|
| user_id      | INT (Primary Key, Auto Increment) | Unique identifier for each user  |
| full_name    | VARCHAR(255)                      | Full name of the user            |
| email        | VARCHAR(255)                      | Email address for login (unique) |
| password     | VARCHAR(255)                      | Hashed password for security     |
| created_at   | TIMESTAMP                         | Account creation timestamp       |

### Session Table (for User Sessions after Sign in)

This table stores active user sessions.

| <b>Field</b> | <b>Type</b>                       | <b>Description</b>                   |
|--------------|-----------------------------------|--------------------------------------|
| session_id   | INT (Primary Key, Auto Increment) | Unique session identifier            |
| user_id      | INT                               | Foreign key referencing Users table  |
| token        | VARCHAR(255)                      | Authentication token for the session |
| created_at   | TIMESTAMP                         | Session creation timestamp           |

## Dashboard Page

### Fundraising Table (for Dashboard Requirement Section)

This table will store information about fundraising requirements and goals.

| <b>Field</b>   | <b>Type</b>                       | <b>Description</b>                                 |
|----------------|-----------------------------------|--|
| fundraising_id | INT (Primary Key, Auto Increment) | Unique identifier for each fundraising requirement |
| title          | VARCHAR(255)                      | Name or title of the fundraising effort            |
| description    | TEXT                              | Detailed description of the requirement            |
| goal_amount    | DECIMAL(10,2)                     | Target amount to be raised                         |
| created_at     | TIMESTAMP                         | Fundraising creation timestamp                     |

## Donations Table (for Donation Section)

This table will store information about donations made by users.

| Field           | Type                              | Description  |
|-----------------|-----------------------------------|--|
| donation_id     | INT (Primary Key, Auto Increment) | Unique identifier for each donation                    |
| user_id         | INT                               | Foreign key referencing <code>Users</code> table       |
| fundraising_id  | INT                               | Foreign key referencing <code>Fundraising</code> table |
| donation_amount | DECIMAL(10,2)                     | Amount donated   |
| donation_date   | TIMESTAMP                         | Date and time of the donation                          |

## Relationships:

- **Users → Donations:** One-to-many (A user can make many donations)
- **Fundraising → Donations:** One-to-many (A fundraising effort can receive many donations)

## Fundraising 1 Page

### Fundraising Table

| Field           | Type                                    | Description  |
|-----------------|---|--|
| fundraising_id  | INT (Primary Key, Auto Increment)       | Unique identifier for each fundraising effort        |
| user_id         | INT                                     | Foreign key referencing the <code>Users</code> table |
| country         | VARCHAR(255)                            | Country where the fundraiser is hosted               |
| zip_code        | VARCHAR(20)                             | ZIP code of the fundraiser's location                |
| purpose         | VARCHAR(255)                            | The purpose or person/cause for the fundraiser       |
| amount_goal     | DECIMAL(10, 2)                          | The target amount to be raised                       |
| cover_photo_url | VARCHAR(255)                            | URL of the uploaded cover photo                      |
| title           | VARCHAR(255)                            | Title of the fundraiser                              |
| story           | TEXT                                    | Description or story explaining the cause            |
| created_at      | TIMESTAMP                               | Timestamp for when the fundraiser was created        |
| status          | ENUM('active', 'inactive', 'completed') | Status of the fundraiser (ongoing, completed, etc.)  |

## Fundraising 2 Page

### Donations Table (Updated to track progress)

| Field           | Type                              | Description                                      |
|-----------------|-----------------------------------|--|
| donation_id     | INT (Primary Key, Auto Increment) | Unique identifier for each donation              |
| user_id         | INT                               | Foreign key referencing <i>Users</i> table       |
| fundraising_id  | INT                               | Foreign key referencing <i>Fundraising</i> table |
| donation_amount | DECIMAL(10, 2)                    | Amount donated                                   |
| donation_date   | TIMESTAMP                         | Date and time of the donation                    |

## Donate 1 Page

### Key Entities:

1. **Users:** People who can donate and manage donations.
2. **Donations:** Specific donations with details such as type (used/new items, money, organs, blood), location, and status.
3. **Donation Types:** Categories like "Used/New Items," "Money Donations," "Organ Donations," and "Blood Donations."
4. **Donation Requests:** For blood or organ donations, there might be specific requests based on urgent needs.
5. **Fundraising:** Users can also engage in fundraising activities, which could be linked to donations.
6. **Transactions:** Handling payments or money transfers related to monetary donations.

### 1. Users Table

| Field          | Data Type    | Description                 |
|----------------|--------------|-----------------------------|
| user_id        | INT (PK)     | Unique ID for each user     |
| username       | VARCHAR(100) | User's name or display name |
| email          | VARCHAR(255) | User's email address        |
| password       | VARCHAR(255) | Encrypted password          |
| contact_number | VARCHAR(15)  | User's contact number       |
| address        | VARCHAR(255) | User's address              |
| created_at     | DATETIME     | Account creation timestamp  |

## 2. Donation Types Table

| Field            | Data Type    | Description                            |
|------------------|--------------|--|
| donation_type_id | INT (PK)     | Unique ID for each donation type       |
| name             | VARCHAR(100) | Type name (e.g., "Money", "Blood")     |
| description      | TEXT         | Short description of the donation type |

## Donate 2 Page

### Donations Table

| Field            | Data Type      | Description                              |
|------------------|----------------|--|
| donation_id      | INT (PK)       | Unique ID for each donation              |
| user_id          | INT (FK)       | Refers to the user who made the donation |
| donation_type_id | INT (FK)       | Refers to the type of donation           |
| goal_amount      | DECIMAL(10, 2) | For monetary donations, target amount    |
| amount_raised    | DECIMAL(10, 2) | Amount already donated (for fundraising) |
| location         | VARCHAR(255)   | Location associated with the donation    |
| description      | TEXT           | Additional details about the donation    |
| status           | VARCHAR(50)    | Status (e.g., "Active", "Completed")     |
| created_at       | DATETIME       | Date and time when donation was created  |

## Search Page

### Donation Requests Table

This table handles specific urgent requests, such as for blood or organs.

| Field            | Data Type    | Description                             |
|------------------|--------------|---|
| request_id       | INT (PK)     | Unique ID for each donation request     |
| donation_type_id | INT (FK)     | Refers to the donation type             |
| blood_group      | VARCHAR(5)   | Specific blood group (if applicable)    |
| description      | TEXT         | Details about the request               |
| urgency_level    | VARCHAR(50)  | Urgency of the request (e.g., "Urgent") |
| location         | VARCHAR(255) | Where the donation is needed            |
| status           | VARCHAR(50)  | Status of the request (e.g., "Pending") |
| created_at       | DATETIME     | Date and time when request was created  |

## Relationships:

- **Users** can create multiple **Donations**, **Requests**, and **Fundraisers**.
- **Donation Types** categorize donations and requests.
- **Donation Requests** can be urgent, linking to specific donation needs like blood types.

## Payment Page

### Transactions Table

| Field            | Data Type      | Description                             |
|------------------|----------------|---|
| transaction_id   | INT (PK)       | Unique ID for each transaction          |
| donation_id      | INT (FK)       | Refers to the associated donation       |
| user_id          | INT (FK)       | Refers to the user who made the payment |
| amount           | DECIMAL(10, 2) | Amount donated                          |
| currency         | VARCHAR(10)    | Currency used (e.g., "LKR")             |
| payment_method   | VARCHAR(50)    | Payment method (e.g., "Visa", "PayPal") |
| transaction_date | DATETIME       | Date and time of the transaction        |

### Payment Methods Table

To manage the available payment methods (Visa, MasterCard, PayPal):

| Field             | Data Type   | Description                       |
|-------------------|-------------|-----------------------------------|
| payment_method_id | INT (PK)    | Unique ID for each payment method |
| name              | VARCHAR(50) | Payment method name (e.g., Visa)  |
| description       | TEXT        | Description of the payment method |

## Relationships:

- **Users** can update their profile information (username, email, description).
- **Transactions** are linked to specific **Donations** and **Users** and include details about the payment method used.

# About Page

## Users Table

| Field         | Data Type    | Description  |
|---------------|--------------|--|
| user_id       | INT (PK)     | Unique ID for each user                            |
| username      | VARCHAR(100) | User's display name                                |
| email         | VARCHAR(255) | User's email address                               |
| password      | VARCHAR(255) | Encrypted password                                 |
| description   | TEXT         | Short description about the user                   |
| profile_image | VARCHAR(255) | URL or path to the user's profile image (optional) |
| created_at    | DATETIME     | Account creation timestamp                         |
| updated_at    | DATETIME     | Timestamp of the last profile update               |

## User Activity Log Table

This table will record updates made by users to their profiles.

| Field            | Data Type    | Description                              |
|------------------|--------------|--|
| log_id           | INT (PK)     | Unique ID for each activity log          |
| user_id          | INT (FK)     | Refers to the user who made the update   |
| action           | VARCHAR(100) | Type of action (e.g., "Updated Profile") |
| previous_value   | TEXT         | Previous value before the update         |
| new_value        | TEXT         | New value after the update               |
| action_timestamp | DATETIME     | Timestamp of when the action occurred    |