**ER Diagram** for the Yoga Admission Form that will be used to store the data in the database. I’ll break down the entities and relationships for you:

**Entities**

1. **Participant**
   * Attributes:
     + id (Primary Key, Auto Increment)
     + name (String)
     + age (Integer)
     + email (String)
     + phone (String)
     + batch (Enum: '6-7AM', '7-8AM', '8-9AM', '5-6PM')
     + payment\_status (Boolean)
2. **Payment**
   * Attributes:
     + payment\_id (Primary Key, Auto Increment)
     + participant\_id (Foreign Key referencing Participant.id)
     + payment\_date (Date)
     + amount (Decimal)
     + status (Enum: 'Paid', 'Failed', 'Pending')

**Relationships**

* **Participant** has **Payment** (One-to-One or One-to-Many, depending on payment model. For simplicity, it’s One-to-Many, since a participant can pay every month.)
  + A **participant** can make multiple payments (one for each month), so we associate the participant\_id in the **Payment** table.

**ER Diagram Representation**

Here’s a simple textual representation of the ER diagram:

lua

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| Participant | | Payment |

+------------------+ +------------------+

| id (PK) |<--------+ | payment\_id (PK) |

| name | | | participant\_id (FK) |

| age | | | payment\_date |

| email | | | amount |

| phone | | | status |

| batch | | +------------------+

| payment\_status | |

+------------------+ |

|

|

|

+--------------------------+

| Payment Relationship |

+--------------------------+

**Explanation of Fields**

* **Participant Table**:
  + id: Unique identifier for each participant.
  + name: Name of the participant.
  + age: Age of the participant (used for validation, between 18-65).
  + email: Email of the participant.
  + phone: Phone number for communication (must be validated as 10 digits).
  + batch: The batch they’ve enrolled in (one of the four time slots).
  + payment\_status: Indicates whether the participant has completed the payment for the month.
* **Payment Table**:
  + payment\_id: Unique identifier for each payment.
  + participant\_id: Foreign Key referencing the Participant.id, establishing a relationship with the participant.
  + payment\_date: The date on which the payment was made.
  + amount: The amount paid (always 500).
  + status: Indicates whether the payment was successful (Paid), failed (Failed), or is pending.

**Database Schema**

Here’s the SQL script for creating the tables:

CREATE TABLE Participant (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(255) NOT NULL,

age INT NOT NULL,

email VARCHAR(255) NOT NULL,

phone VARCHAR(10) NOT NULL,

batch ENUM('6-7AM', '7-8AM', '8-9AM', '5-6PM') NOT NULL,

payment\_status BOOLEAN DEFAULT FALSE

);

CREATE TABLE Payment (

payment\_id INT AUTO\_INCREMENT PRIMARY KEY,

participant\_id INT,

payment\_date DATE NOT NULL,

amount DECIMAL(10, 2) DEFAULT 500,

status ENUM('Paid', 'Failed', 'Pending') DEFAULT 'Pending',

FOREIGN KEY (participant\_id) REFERENCES Participant(id)

);

**Entity Relationship Summary**

* A **Participant** can enroll in a batch and make multiple payments over time (every month).
* Each **Payment** is linked to a specific **Participant**.