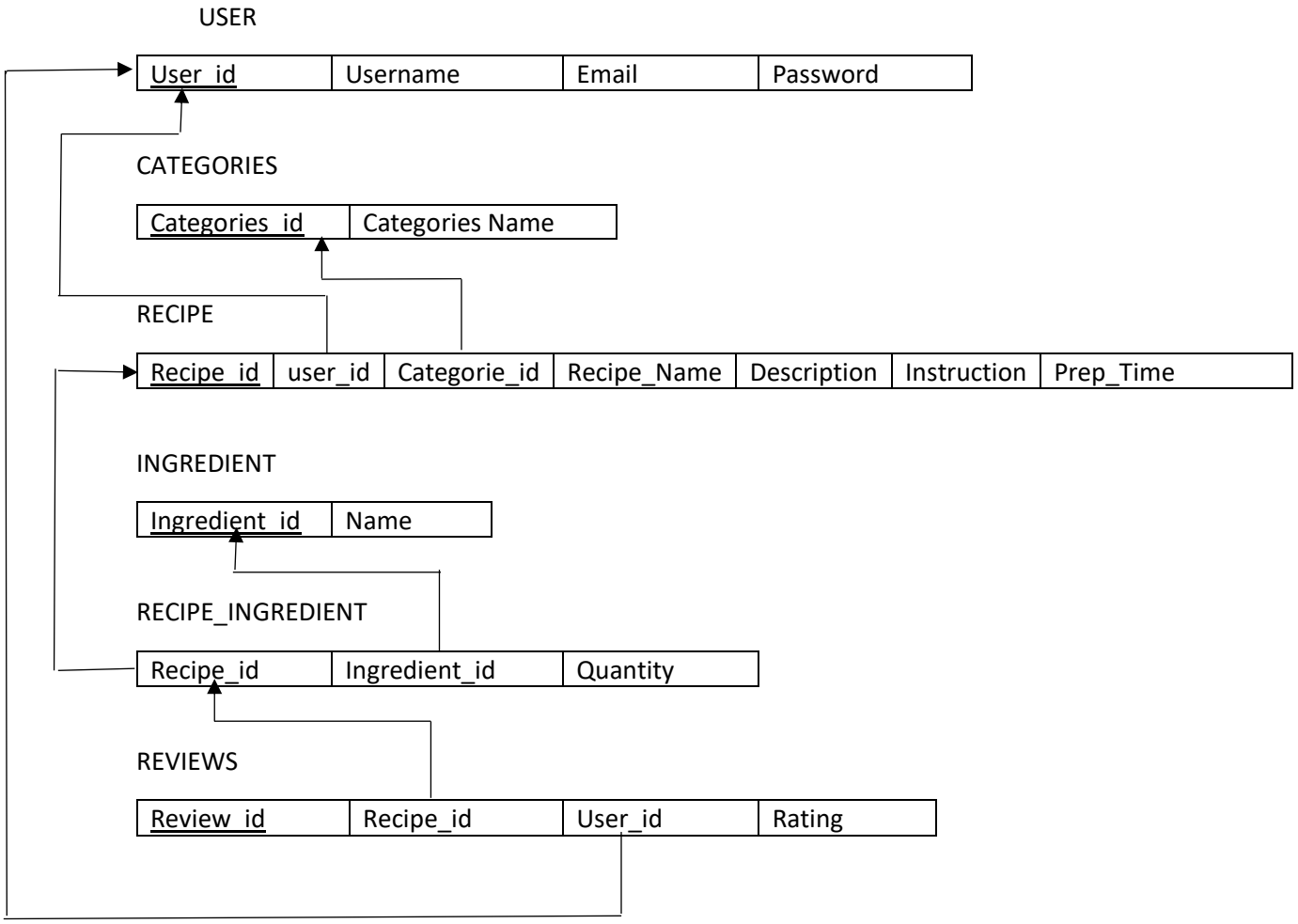
Schema Daigram



Database Schema (Tables & Fields)

1. User Table

Column Name	Data Type	Description
user_id	INT (PK)	Unique user ID
name	VARCHAR	User's name
email	VARCHAR	User's email
password	VARCHAR	Hashed password

2. Categories Table

Column Name	Data Type	Description
category_id	INT (PK)	Unique category ID
name	VARCHAR	Category name

3. Recipe Table

Column Name	Data Type	Description
recipe_id	INT (PK)	Unique recipe ID
user_id	INT (FK)	Creator (User) ID
category_id	INT (FK)	Recipe category ID
Recipe_name	VARCHAR	Recipe title
instructions	TEXT	Recipe instructions
Prep_time	TIMESTAMP	Creation date

4. Ingredient Table

Column Name	Data Type	Description
ingredient_id	INT (PK)	Unique ingredient ID
name	VARCHAR	Ingredient name

5. Recipe_Ingredient Table (Junction Table)

Column Name	Data Type	Description
recipe_id	INT (FK)	Recipe ID
ingredient_id	INT (FK)	Ingredient ID
quantity	VARCHAR	Quantity

6. Review Table

Column Name	Data Type	Description
review_id	INT (PK)	Unique review ID
user_id	INT (FK)	Reviewer ID
Recipe_id	INT (FK)	Reviewed Recipe ID
rating	INT	Rating (1-5)

Query

User:

CREATE TABLE Users (user_id INT AUTO_INCREMENT PRIMARY KEY, username VARCHAR(50) NOT NULL UNIQUE, email VARCHAR(100) NOT NULL UNIQUE, password VARCHAR(255) NOT NULL);

Categorie:

CREATE TABLE Categories (category_id INT AUTO_INCREMENT PRIMARY KEY, categorie_name VARCHAR(50) NOT NULL UNIQUE);

Recipe:

CREATE TABLE Recipes (recipe_id INT AUTO_INCREMENT PRIMARY KEY, user_id INT, category_id INT, recipe_name VARCHAR(100) NOT NULL, description TEXT, instructions TEXT NOT NULL, prep_time INT);

Ingredient:

CREATE TABLE Ingredients (ingredient_id INT AUTO_INCREMENT PRIMARY KEY, ingredient_name VARCHAR(100) NOT NULL UNIQUE);

Recipe_Ingredient:

CREATE TABLE Recipe_Ingredients (recipe_id INT, ingredient_id INT, quantity VARCHAR(50));

Review:

CREATE TABLE Reviews (review_id INT AUTO_INCREMENT PRIMARY KEY, recipe_id INT, user_id INT, rating INT CHECK (rating >= 1 AND rating <= 5));

Inserting Table

1) INSERT INTO Users (user_id,username, email, password) VALUES (101, 'Deeksha','deeksha@gmail.com', 'deeksha_1');

2) INSERT INTO category (category_id,category_name) VALUES (11,'VEG'); INSERT INTO category (category_id,category_name) VALUES (12,'NONVEG');

3) INSERT INTO Recipes (recipe_id,user_id,category_id,recipe_name,description,instructions,prep_time) VALUES ('123', 101, 11, 'Ghee rice','Delicious and rich', 'Heat 2 tbsp ghee in a pan, add 2-3 cardamom, 1-2 cloves, 1-inch cinnamon, and a bay leaf. Sauté 1 sliced onion until golden.Add 1 cup soaked basmati rice stir for 1-2 minutes Add 2 cups water and salt Bring to a boil, then simmer covered for 12-15 mins until rice is cooked.Fluff the rice and serve Enjoy!',30);

4) INSERT INTO ingredients (ingredient_id,ingredient_name) VALUES ('01',' Rice');

5) INSERT INTO Recipe_Ingredients (recipe_id, ingredient_id, quantity) VALUES(1, 01, '2 cups');

6) INSERT INTO reviews (review_id, recipe_id, user_id, rating) VALUES (90, 101, 'Delicious recipe! Highly recommend.', 5);