CREATE DATABASE quick\_recycle;

USE quick\_recycle;

CREATE TABLE users (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100),

email VARCHAR(100) UNIQUE,

phone VARCHAR(15),

password VARCHAR(255),

credits INT DEFAULT 0

);

CREATE TABLE recycled\_items (

id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT,

item\_type VARCHAR(50),

weight FLOAT,

credits\_earned INT,

FOREIGN KEY (user\_id) REFERENCES users(id)

);

**2. Coupons Table**

This table stores information about the coupons that users can redeem.

sql

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CREATE TABLE coupons (

id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

credits\_needed INT NOT NULL,

exp\_date DATE NOT NULL,

value DECIMAL(10,2) NOT NULL,

status ENUM('active', 'expired') DEFAULT 'active',

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

**3. User Coupons Table**

This table tracks the coupons that have been redeemed by users. It also ensures that a user cannot redeem the same coupon more than once.

sql

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CREATE TABLE user\_coupons (

id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT NOT NULL,

coupon\_id INT NOT NULL,

name VARCHAR(100) NOT NULL,

exp\_date DATE NOT NULL,

value DECIMAL(10,2) NOT NULL,

used\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

UNIQUE KEY unique\_user\_coupon (user\_id, coupon\_id),

FOREIGN KEY (user\_id) REFERENCES users(id) ON DELETE CASCADE,

FOREIGN KEY (coupon\_id) REFERENCES coupons(id) ON DELETE CASCADE

);

CREATE USER 'recycle\_user'@'localhost' IDENTIFIED BY 'spassword';

GRANT ALL PRIVILEGES ON quick\_recycle.\* TO 'recycle\_user'@'localhost';

FLUSH PRIVILEGES;

mysql -u recycle\_user -p

Enter password: \*\*\*\*\*\*\*\*\*

**1. Install Node.js and npm**

Make sure you have Node.js and npm installed on your system. You can download them from [nodejs.org](https://nodejs.org/).

**2. Install Create React App**

Create React App is a tool that sets up a new React project with a modern build setup.

Open your terminal and run the following command to install Create React App globally:

sh

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npm install -g create-react-app

**3. Create a New React Project**

Run the following command to create a new React project. Replace my-react-app with your desired project name.

sh

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create-react-app my-react-app

This command will create a new directory called my-react-app with all the necessary files and dependencies installed.

**4. Navigate to Your Project Directory**

Change to the project directory:

sh

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cd my-react-app

{

  "name": "John Doe",

  "email": "johndoe@example.com",

  "phone": "123-456-7890",

  "password": "password123"

}