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-- 1. Enable PostGIS for location-based search (Essential for "Hyperlocal")
CREATE EXTENSION IF NOT EXISTS postgis;

-- 2. Create Custom Enums (Restricts data to specific values)
CREATE TYPE user_role AS ENUM ('customer', 'provider', 'admin');
CREATE TYPE booking_status AS ENUM ('pending', 'confirmed', 'rescheduled', 'completed',
'cancelled');

-- 3. Create Categories Table
CREATE TABLE categories (
    id SERIAL PRIMARY KEY,
    name VARCHAR(100) NOT NULL UNIQUE,
    icon_url TEXT,
    created_at TIMESTAMPTZ DEFAULT NOW()
);

-- 4. Create Profiles/Users Table
-- (Note: If using Supabase Auth, this table typically links to auth.users)
CREATE TABLE profiles (
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
    full_name TEXT NOT NULL,
    email TEXT UNIQUE NOT NULL,
    phone TEXT,
    role user_role DEFAULT 'customer',
    created_at TIMESTAMPTZ DEFAULT NOW()
);

-- 5. Create Provider Profiles Table
CREATE TABLE provider_profiles (
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),
    user_id UUID REFERENCES profiles(id) ON DELETE CASCADE UNIQUE,
    category_id INT REFERENCES categories(id) ON DELETE SET NULL,
    bio TEXT,
    base_price DECIMAL(10, 2),
    is_verified BOOLEAN DEFAULT false,
    avg_rating FLOAT DEFAULT 0,
    -- Geospatial location column (Latitude and Longitude)
    location GEOGRAPHY(POINT, 4326),
    updated_at TIMESTAMPTZ DEFAULT NOW()
);

-- 6. Create Provider Availability Table
CREATE TABLE provider_availability (

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    id SERIAL PRIMARY KEY,  
    provider_id UUID REFERENCES provider_profiles(id) ON DELETE CASCADE,  
    day_of_week INT CHECK (day_of_week BETWEEN 0 AND 6), -- 0 = Sunday  
    start_time TIME NOT NULL,  
    end_time TIME NOT NULL,  
    UNIQUE(provider_id, day_of_week)  
);
```

-- 7. Create Bookings Table

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CREATE TABLE bookings (  
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),  
    customer_id UUID REFERENCES profiles(id),  
    provider_id UUID REFERENCES provider_profiles(id),  
    status booking_status DEFAULT 'pending',  
    scheduled_for TIMESTAMPTZ NOT NULL,  
    service_address TEXT NOT NULL,  
    total_price DECIMAL(10, 2),  
    notes TEXT,  
    created_at TIMESTAMPTZ DEFAULT NOW()  
);
```

-- 8. Create Reviews Table

```
CREATE TABLE reviews (  
    id UUID PRIMARY KEY DEFAULT gen_random_uuid(),  
    booking_id UUID REFERENCES bookings(id) ON DELETE CASCADE UNIQUE,  
    customer_id UUID REFERENCES profiles(id),  
    provider_id UUID REFERENCES provider_profiles(id),  
    rating INT CHECK (rating >= 1 AND rating <= 5),  
    comment TEXT,  
    created_at TIMESTAMPTZ DEFAULT NOW()  
);
```

-- 9. Useful Index for Proximity Search

-- This index makes searching for nearby Karigars extremely fast

```
CREATE INDEX provider_location_idx ON provider_profiles USING GIST (location);
```

-- 10. Sample Categories Data

```
INSERT INTO categories (name) VALUES  
(('Plumber'), ('Electrician'), ('Tutor'), ('House Cleaning'), ('Technician'));
```