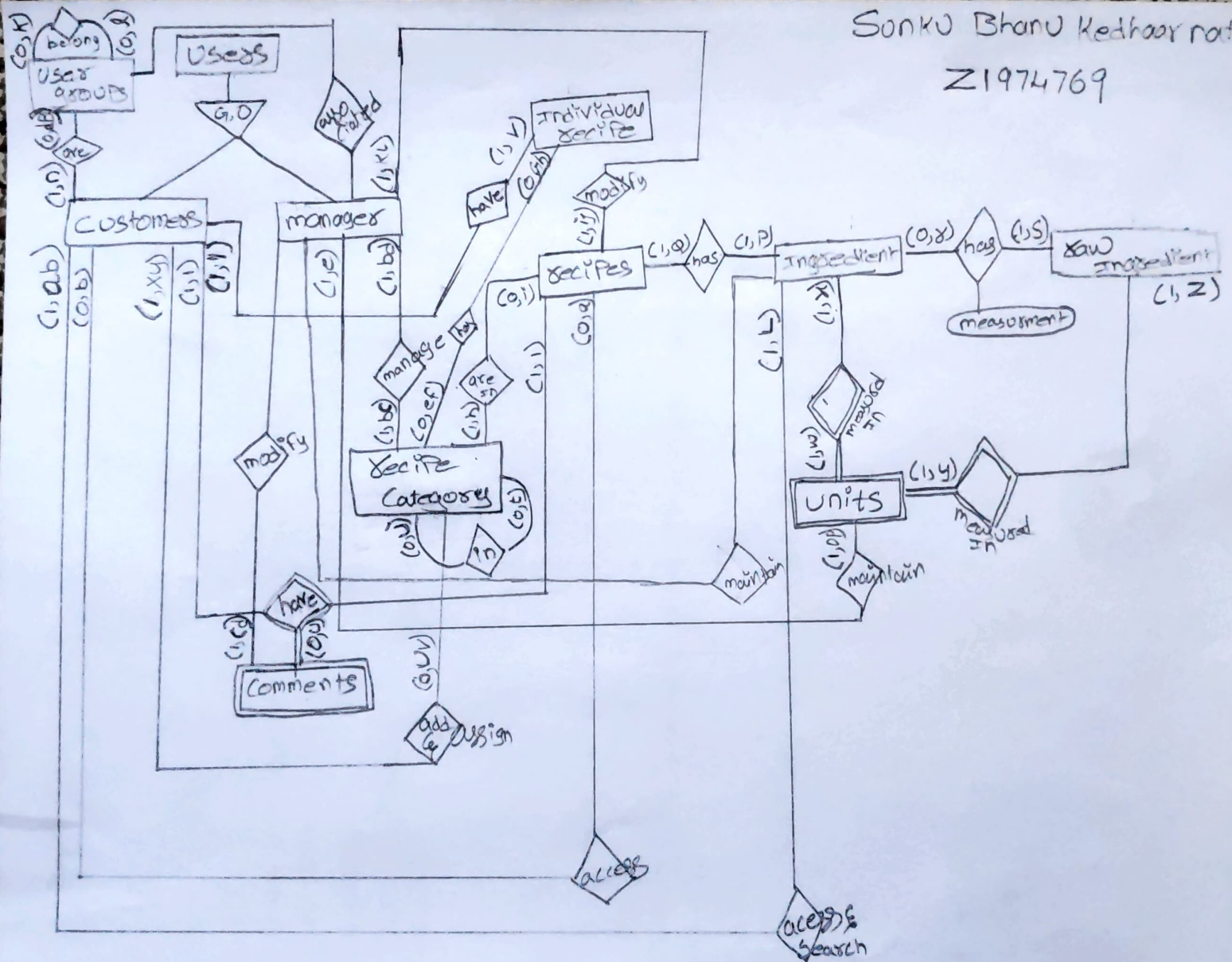


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Entity Attributes

Users

- 1) SSN (unique)
- 2) Name
- 3) Address (composite)
- 4) Username
- 5) Password
- 6) Phone number
- 7) email

Recipes

- 1) ID (unique)
- 2) Name
- 3) Comment type (enabled/disabled), IF enabled comments can be made.
- 4) Source
- 5) Serving
- 6) type (Public/Restricted), Some recipes are available for only few customers
- 7) quantity
- 8) Instructions
- 9) Difficulty

Ingredient

- 1) quantity
- 2) Name
- 3) ID (unique)
- 4) nutritional info (managed by managers)

Comments

- 1) ID (Unique)
- 2) Comment
- 3) type (Private/Public)
- 4) Source (from customer? (or) manager?)

User groups

- 1) ID (Unique)
- 2) Name of the group
- 3) Size

Units

- 1) ID (Unique)
- 2) type
- 3) description

Raw ingredients

- 1) ID
- 2) Ingredient name
- 3) Quantity.

Individual Recipe

- 1) ID
- 2) type.

Recipe Category

- 1) ID
- 2) Name
- 3) Region
- 4) recipe

List of Assumption

- 1) Customers & managers inherit attributes from Users
the difference b/w Customers & managers will be through Username & Password.
- 2) Individual Recipe entity was taken because Customer can store Private recipes in their database & there is a relationship b/w Individual Recipe & Recipe because if Customer wants to make his Private recipe Public.
- 3) I have took Ingredient & Raw Ingredient as two entities because with mixture of raw ingredients we get an Ingredient which can be used to make one or more recipes
ex Chicken butter masala & Panner butter masala
Both instructions are same change is just Chicken & Panner (cottage cheese)

- 4) Customer having access to Recipes & Ingredient will enable Customer to Search by Recipe (or) Ingredient and Scaling the Servings.
- 5) Here Customer, Recipes and Comments are in ternary relation because a instance of Comments cannot exist without a Customer (or) Recipe. There should be a Recipe & a Customer for a Comment to exist. Comments are dependent on both Recipes & Customers so it is weak entity.
- 6) Here entity Units is a weak entity because it cannot exist without Ingredient (or) Raw Ingredient.
- 7) In the question it has said that managers should be able to do whatever Customers can do all the relationships from Customers & managers can be given from users to other entities. But I gave Separately because to differentiate b/w managers & Customers. Because managers have more Power than Customers.